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### **STANDARD ST.32**

RECOMMENDATION FOR THE MARKUP OF PATENT DOCUMENTS USING SGML (STANDARD GENERALIZED MARKUP LANGUAGE)

Revision adopted by the PCIPI Executive Coordination Committee at its seventeenth session on November 24, 1995

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### **STANDARD ST.32**

# RECOMMENDATION FOR THE MARKUP OF PATENT DOCUMENTS USING SGML (STANDARD GENERALIZED MARKUP LANGUAGE)

Revision adopted by the PCIPI Executive Coordination Committee at its seventeenth session on November 24, 1995

#### INTRODUCTION

- 1. This Recommendation is an application of International Standard ISO 8879:1986, *Information Processing Text and Office Systems Standard Generalized Markup Language (SGML)*; which is under review.
- 2. This Recommendation provides for the exchange of patent documents in machine-readable form on any exchange medium in a hardware-, software- and layout-independent format. Such independence of the representation of the contents of a document from their intended uses is achieved by using International Standard ISO 8879:1986, Information processing Text and office systems Standard Generalized Markup Language (SGML), to define generic identifiers which are in turn used to mark the logical structure of each patent document.
- 3. International Standard ISO 8879:1986 cannot be used *per se* as the basis for document processing. That is not the intention of the standard. Instead, ISO 8879 "standardizes the application of generic coding and generalized markup concepts. It provides a coherent and unambiguous *syntax* for describing whatever a user chooses to identify within a document" (ISO 8879:1986 page 2). The choice of tags, that is, the *semantics* to which the syntax applies, is left to the user.
- 4. Therefore, this Recommendation defines generic identifiers or "tags" for marking the logical elements of a patent document. The logical elements of a patent document are of two types: common text and patent-specific content.
- 5. Under the terms of International Standard ISO 8879:1986 any tags may be used in a particular document so long as the semantics are defined in an accompanying document type definition (DTD). It is conceivable that a patent issuing authority may choose different tags than those specified in this Recommendation. So long as the tags were defined in the accompanying DTD, the document could be presented to a user on a system designed to read SGML documents. However, documents which use a DTD that differs from that specified below cannot be considered to be in compliance with this Recommendation even if they are in compliance with ISO 8879:1986.
- 6. Markup in compliance with this Recommendation is independent of layout and formatting. Decisions regarding layout and formatting must be made at the time a document is presented for reading, either on a display screen or on paper. It is at the time of presentation that, for example, text which has been marked as emphasized (bold, italic, etc.) is rendered in an available font which has more or less the desired appearance. It is at the time of presentation that the size of the display page (screen or paper) is determined. Many such decisions which map the generic identifiers in a document to the capabilities of a particular physical display device (whether screen or paper) determine, for example, how many characters will fit on one line or how much text will fit on a display page. As a result, the document may not have exactly the same physical appearance when it is presented on different display devices. This Recommendation does not address issues concerned with mapping generic identifiers to a particular display device. It can be expected that in the future two standards may be applied in this area: Standard Page Description Language (SPDL) ISO/IEC DIS 10180 and Document Style Semantics and Specification Language (DSSSL) ISO/IEC DIS 10179.
- 7. Markup in compliance with this Recommendation should facilitate importing large sets of documents into a database. In fact, the extensive list of tags for patent bibliographic data will make it possible for database vendors to more easily distinguish various information elements with higher precision than has been possible in the past. This Recommendation does not address issues concerned with mapping generic identifiers to database fields.
- 8. This revision of ST.32 shall be referenced as version 3 (1995). This is to distinguish it from previous versions, which may still be used for data exchange but, if so, **must** be referenced as: version 1 (October 1987) or version 2 (September 1990). The relevant DTD may then be applied to a specific version for processing, parsing, etc. In addition it is possible to reference the DTD to be used as an attribute to any patent document, the default being the latest version of ST.32. It is, of course, recommended to update files to this latest version of ST.32 for data exchange.



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### **DEFINITIONS**

- 9. The expression **patent document** includes patents for invention, plant patents, design patents, utility certificates, utility models, documents of addition thereto and published applications therefor. (Refer also to WIPO <u>ST.16</u>: Recommended Standard Code for the Identification of Different Kinds of Patent Documents)
- 10. **Common text** refers to logical elements that could occur in any type of industrial property information or in any kind of document, for example, paragraphs, footnotes, subscripts, special characters, lists, embedded images, tables, chemical formulae, mathematical formulae, etc. Tags for common text data are specified and described in Part 1(the DTD is in Annex B).
- 11. **Patent-specific content** refers to logical elements that ordinarily occur only in patent documents, for example, inventor's name, patent number, issuing authority, priority data, classification symbols, etc. In short, any of the information elements identified in WIPO Standard ST.9, Recommendation Concerning Bibliographic Data on and Relating to Patents and SPCs, as well as some others. Tags for patent bibliographic data are specified and described in Part 2 (the DTD is in Annex B).
- 12. **Markup** is defined as text that is added to the content of a document and that describes the structure and other attributes of the document in a non-system-specific manner, independently of any processing that may be performed on it. Markup includes document type definitions (DTDs), entity references, and descriptive markup (tags).
- 13. A document type definition (DTD) formally defines:
  - the names of all the logical elements that are allowed in documents of a particular type;
  - · how often each logical element may appear;
  - the permissible contents for each logical element;
  - attributes (parameters) that may be used with each logical element;
  - · the correct sequence of logical elements;
  - the names of all external and pre-defined entities that may be referenced in a document;
  - · the hierarchical structure of a document;
  - the features used from the SGML standard.

A DTD defines the vocabulary of the markup for which SGML defines the syntax. The complete set of tags that may be found in a particular document are listed and formally defined in its DTD which must accompany the document. Each document in a large set of documents which share the same DTD, that is, documents which are of the same type, usually incorporates the DTD by reference.

- 14. An **entity** is content that is not part of the text stream in a document but which is incorporated into the text stream by reference to its name. In patent documents, for example, images are external entities. Entity references can also be used to code instances of characters not found in the 'declared' character set (see Character Sets below).
- 15. **Tags** define a document's logical structure by labelling elements of the document's content using the generic identifiers declared in the DTD.
- 16. The **hierarchy** of SGML tags used in this Recommendation follows the general structure of a patent document. The level in the hierarchy is indicated by the appropriate SGML tag describing a generic logical element. A generic logical element is a component of the text such as the entire document, a specific sub-document, a paragraph, a list, etc. Each generic logical element is described by a start tag and end tag.

level sgml tag (example) <PATDOC> Document Sub-document <SDOXX> Text Component (Paragraph) <P> Text Element (Subscript) <SB> Character </SB> Fnd End </P> </SDOXX> Fnd End </PATDOC>



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17. International Standard ISO 8879:1986 defines an **abstract syntax** and a **reference concrete syntax**. The reference concrete syntax for SGML tags is as follows:

Start End Tag Tag

This is <B> text </B> that will appear emphasized as bold ...

### Where

- is the opening delimiter for Start Tags (1 character)
- is the opening delimiter for End Tags (2 characters)
- > is the closing delimiter for both Start Tags and End Tags (1 character)
- B is the generic identifier of this particular tag, defined in the DTD

A generic identifier is a name that identifies a generic logical element. The text between the start tag and the end tag is a specific instance of the generic logical element. Depending upon the generic identifier, parameters may be required. In the description of the various tags in this Recommendation, parameters are referred to as "attributes" in conformance with ISO practice. For an explanation of the relationship between reference concrete syntax and abstract syntax, see International Standard ISO 8879:1986.

18. The following is a brief example of SGML markup:

```
<PATDOC>
<SDOBI LA=EN>
<B100> (Minimum bibliographic tags would need to be added here)
</SDOBI>
<SDODE LA=EN>
<H LVL=0>FABRIC SOFTENER COMPOSITION
<H LVL=1>TECHNICAL FIELD</H>
<H LVL=1>SUMMARY OF THE INVENTION</H>
<P N=11>The present invention relates to an aqueous fabric softener composition comprising:
<SL>
<LI>(A) from 1% to 50% by weight of ... cyclic amines of the formula
<EMÌ FILE="92102108" ID="2.1" HE=30 WI=55 TI=CF>
wherein n is 2 or 3, R<SB>1</SB> and
<LI>(B) from 3% to 20% by weight of (A)
</SL>
</SDODE>
</PATDOC>
```

In the example above <EMI FILE="92102108" ID="2.1" HE=30 WI=55 TI=CF> refers to a chemical structure which has been scanned as an image and which will be imbedded in the text at this point at the time of presentation. <PATDOC> and </PATDOC> mark the beginning and end of a patent respectively. The other tags in the example are explained below and there are more extensive examples in Annex D.

### CHARACTER SETS

19. The data content of the majority of documents, including patents, consists of data characters. The data characters could be in any language consisting of many types of character ('character' is used in its broadest sense here to include graphical symbols). In this recommendation only one coded character set is referenced: ISO 646. This is probably the most common **system independent** character set in use today. Characters not in this code set should be represented by public entity references - preferably those contained in ISO 8879 - these are referenced in the DTD in Annex B. Note that other character sets and character entity references are possible. It is not recommended to use the code pages contained in WIPO <u>ST.31</u> since these can lead to problems in data interchange, are not easily maintained and are not as commonly used and accepted as the ISO 646 code page.



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### **REFERENCES**

20. The following documents are of fundamental importance to this Recommendation:

International Standard ISO 8879:1986, Information processing - Text and office systems - Standard Generalized Markup Language (SGML);

Technical Report ISO/IEC/TR 9573:1988(E) Information processing - SGML support facilities - Techniques for using SGML;

International Standard ISO 639:1988, Code for the Representation of Names of Languages.

International Standard ISO 646:1991, Information Processing - ISO 7-bit coded character set for information interchange.

WIPO Standard <u>ST.3</u>, Recommended Standard Two-Letter Code for the Representation of States, Other Entities and Intergovernmental Organizations;

WIPO Standard ST.9, Recommendation Concerning Bibliographic Data on and Relating to Patents and SPCs;

WIPO Standard <u>ST.16</u>, Recommended Standard Code for the Identification of Different Kinds of Patent Documents.

21. For additional information concerning SGML the following publications may be of interest (please note there is now a considerable amount of literature, books and periodicals, on SGML, as well as many user groups, the list below is only a small selection):

American National Standards Institute. *Electronic manuscript preparation and markup.* (Z39.59). Transaction Publishers: New Brunswick (USA) and London, 1991. ISBN 0887389457.

Association of American Publishers. Electronic Manuscript Series: Author's guide to electronic manuscript preparation and markup; Reference manual on electronic manuscript preparation and markup; Markup of mathematical formulas; Markup of tabular material. Dublin, Ohio: Electronic Publishing Special Interest Group (EPSIG), 1989.

Bryan, Martin. SGML: an author's guide to the Standard Generalized Markup Language (SGML). Wokingham: Addison-Wesley, 1988. ISBN 0201175355.

Goldfarb, Charles F. The SGML handbook. Oxford: Oxford University Press, 1990. ISBN 019 8537379.

Van Herwijnen, Eric. *Practical SGML. 2nd.ed.* Dordrecht: Kluwer Academic Publishers, 1994. ISBN 0792394348

### REQUIREMENTS OF THE RECOMMENDATION

- 22. Documents which conform to this Recommendation shall be marked up in conformance with:
  - International Standard ISO 8879:1986, Information Processing Text and Office Systems - Standard Generalized Markup Language (SGML);
  - the DTD contained in Annex B.
- 23. Documents which conform to this Recommendation shall use the *reference concrete syntax* defined in International Standard ISO 8879:1986. See also Annex A: *SGML Declaration for Patent Documents*.
- 24. The DTD contained in Annex B shall be provided separately from the individual documents in the collection of documents to which it applies.
- 25. Each document to which the DTD in Annex B applies will incorporate the DTD by reference.
- 26. Reference to the DTD contained in Annex B shall be made by use of its "public name" which has been [will be] registered with the appropriate international authority and is declared below in Annex B.



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- 27. No document in conformance with this Recommendation shall refer to or incorporate by reference a DTD 1) for which a public name has not been registered with the appropriate international authority; 2) which does not appear in this Recommendation.
- 28. It may happen that some particularly unusual document contains some text or image portion(s) which cannot be rendered for the end user with adequate fidelity, in the judgement of the issuing authority, without the introduction of one or more logical elements not contained in Annex B. In that event:
  - 28.1. The issuing authority shall provide constructive notice to end users that some documents contain exceptional elements. Where possible, the exact identification of such documents shall be provided, either as a list of document numbers or contiguous ranges of document numbers.
  - 28.2. The issuing authority shall make every attempt to have the required logical element(s) introduced into the appropriate DTD contained in the appropriate section of this Recommendation, so that other issuing authorities may take advantage of them, and so that presentation system vendors may take account of them in preparing presentation software and hardware.
  - 28.3. The issuing authority may, at its discretion, include the required logical element(s) in a supplementary DTD which is incorporated by reference into the DTD(s) that apply to the document(s) in question until such time as the elements are incorporated into this Recommendation.
    - 28.3.1. A supplementary DTD shall not be incorporated directly into the document(s) to which it applies.
    - 28.3.2. A supplementary DTD shall not contain any duplicate logical elements included in the DTD contained in ST.32, Annex B.
    - 28.3.3. If a supplementary DTD is provided, constructive notice shall be given to the end user to that effect.



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### PART 1: SGML MARKUP FOR COMMON TEXT

The tags described in this part of ST.32 indicate text portions that are not specific to any one type of industrial property information and may therefore be used in any document conforming to ST.32.

### **GENERAL TEXT**

TABLE OF SG	TABLE OF SGML TAGS			
TAG	NAME	DESCRIPTION		
<b></b>	Bold	Indicates the beginning of text to be highlighted at the time of presentation by using a bold typestyle. An end tag is required.		
<bai></bai>	BAlkaku	Indicates Japanese text portion to be highlighted using an expanded font. An end tag is required.		
<bchg></bchg>	Beginning of a CHanGe	Indicates the beginning of a change in bibliographic data only. Attributes required. It is an empty element which should be followed by <echg>.</echg>		
 	line BReak	Indicates the position in the text at which a line break occurs. No end tag is necessary.		
<chf></chf>	CHaracter Fraction	Indicates a character construct consisting of two or more characters in a 'fraction type' construct. Use with the <chfbr> tag. An end tag is required.</chfbr>		
<chfbr></chfbr>	CHaracter Fraction BReak	Indicates the break point in a character 'fraction' construct consisting of two or more characters in a 'fraction type' construct. No end tag is necessary.		
<chg></chg>	CHanGe	Indicates the beginning of a change (not in bibliographic data). Attributes required. An end tag is required		
<dp></dp>	Document Page	Indicates the beginning of a new page. The attribute N= is required. No end tag is necessary.		
<echg></echg>	End of a CHanGe	Indicates the end of a change in bibliographic data only. Attributes required. It is an empty element which should be preceded by <bchg>.</bchg>		
<fla></fla>	FLoating Accents	This indicates a character enhanced with a particular attributing feature. An end tag is required.		
<flac></flac>	FLoating ACcents	This indicates the attributing feature in a floating accent construct. No end tag is necessary.		
<f00></f00>	FOOtnote	Indicates a footnote. Attributes required. An end tag is required.		
<for></for>	FOotnote Reference	Indicates a reference to a previous footnote. Attributes required. An end tag is required.		
<h></h>	Heading level	Indicates a separate text portion that precedes text parts, for example, paragraphs. An end tag is required.		
<han></han>	HANkaku	Indicates Japanese text portion to be highlighted using a compressed font. An end tag is required.		
<l></l>	Italic	Indicates the beginning of text to be highlighted at the time of presentation by using an italic typestyle. An end tag is required.		
<ltl></ltl>	LiTeraL	Indicates the beginning of text in which the space, indents, line endings, etc., should be preserved as keyed in the original document. An end tag is required.		
<0>	'Over' embellishments	Indicates the beginning of text to be covered by an over, or mid, embellishment of a particular designated style (attribute) at the time of presentation. An end tag is required.		



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TABLE OF SGML TAGS			
TAG	NAME	DESCRIPTION	
<p></p>	Paragraph	Indicates a text portion known as a paragraph and implies that the text will begin on a new line. No end tag is necessary.	
<patdoc></patdoc>	PATent DOCument	Indicates the beginning of a patent document instance (file). An end tag is required.	
<pc></pc>	Paragraph	Indicates a continuation of an interrupted paragraph. No end tag is	
	Continuation	necessary.	
<pcl></pcl>	Page CoLumn	Indicates the beginning of a new column. The attribute N= is required. No end tag is necessary.	
<pln></pln>	Page LiNe	Indicates the beginning of a new line. The attribute N= is required. No end tag is necessary.	
<sb></sb>	SuBscript	Indicates the beginning of text which is to be placed as a subscript to the preceding text outside mathematical formulae. An end tag is required.	
<sdoxx></sdoxx>	Sub-DOcument	Indicates the beginning of a sub-document whose identity (xx) is included in the tag. An end tag is recommended.	
<sp></sp>	SuPerscript	Indicates the beginning of text which is to be placed as a superscript to the preceding text outside mathematical formulae. An end tag is required.	
<txf></txf>	TeXt Frame	This indicates a rectangular area of text of a page. No end tag is necessary.	
<u></u>	Under embellishment	Indicates the beginning of text to be highlighted with an under embellishment of a particular style (attribute) at the time of presentation. An end tag is required.	



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TABLE OF ATTRIBUTES			
ATTRIBUTE	NAME	DESCRIPTION	
ALIGN	ALIGN	Alignment of data.	
CY	CountrY code	Indicates country code based on ST.3	
DATE	DATE	Date : in the format YYYYMMDD	
DNUM	Document Number	Identifier of document (publication or application number)	
DTD	Document Type Definition	Version number of the DTD.	
FILE	File name	The file name of a patent document or image file.	
FN	Footnote Number	Unique identification for a footnote	
FNREF	Foot Note REFerence	Unique identification for a footnote reference	
FONT	FONT	Font used in text frames	
FR	FRame	Frame number within a page	
HE	HEight	Height of images in mm	
ID	IDentifier	Has various parameters depending on tag	
KIND	KIND	Kind of document based on <u>ST.16</u>	
LA	LAnguage	Indicates sub-document language	
LS	Line Spacing	Line spacing in text frames	
LVL	LeVeL	Indicates the level of a heading	
LX	X coordinate	X coordinate of image in 1/10mm	
LY	Y coordinate	Y coordinate of image in 1/10mm	
N	Number	Indicates numbers for paragraphs, pages, etc.	
POS	POSition	Indicates various parameters depending on the tag	
SIZE	SIZE	Font size in text frames	
STATUS	STATUS	Indicates status of patent document and/or change	
STYLE	STYLE	Indicates the style of various attributes, for example, over characters, etc.	
TYPE	TYPE	Type of embellishment	
WI	Wldth	Width of images in mm	



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### SGML TAGS: DESCRIPTION AND USAGE

#### **DOCUMENT STRUCTURE**

### 1. <PATDOC>: PATent DOCument

This is the mandatory identifier with which every patent document must start. An end tag is required.

Required Attribute(s):

None.

### Optional Attribute(s):

FILE=name Where 'name' is the name of the patent document file, which contains the document instance.

STATUS= Status of the patent document, eg. contains changes, republished, deleted, withdrawn, etc.

Note: It is recommended that the following optional attributes should be used only when the mandatory tags, giving document identification, contained in the <SDOBI> sub-document, are not used. This may be the case, for example, when only partial information is exchanged between offices.

CY=xx Where xx is the country or organisation, according to WIPO ST.3, publishing or issuing the patent

document. <B190>

DATE=YYYYMMDD Date of publication. <B140>

DNUM=n Where n is the document number, usually the publication number but may also be the application

number. <B110> or <B210>

KIND=xx Where xx is the kind of patent document code taken from WIPO ST.16. <B130>

DTD=n Where n is the version number of the DTD applied to a particular patent document. The default is

ST.32 Version 3 (1995).

### DTD Syntax:

```
<!ELEMENT patdoc - -
                               (sdobi, (sdoab * & sdode ? & sdocl * & sdodr ? & sdosr ?))
                               +(%floats;)
<!ATTLIST patdoc cy
                                        #IMPLIED
                                                      -- Country, organis. St.3
-- Identification number
                               CDATA
                    dnum
                               CDATA
                                        #IMPLIED
                                                                             number
                                                      -- date of publication
                    date
                               NUMBER
                                        #IMPLIED
                                                      -- file identification
                    file
                               CDATA
                                        #IMPLIED
                                                      -- Kind of patent St.16
-- Status of the patent doc.
                    kind
                               CDATA
                                        #TMPLTED
                               CDATA
                                        #IMPLIED
                    status
                               NUTOKEN #IMPLIED
                                                       -- Version NUMBER of DTD
                    dtd
```

### Examples:

```
<PATDOC><SDOBI>Here is a WIPO Patent Document (other tags would normally be included) </SDOBI></PATDOC>
<PATDOC FILE92101123 CY=EP DATE=19921212 DNUM=0500111 KIND=A1>
```

<SDOBI>Here is a European Patent Office application with a search report (A1) (other tags would normally be included)



Ref.: Standards – ST.32 page: 3.32.10

### 2. <SDOxx>: Sub-DOcument tags

This is the mandatory identifier with which every sub-document must start. An end tag, although optional, is recommended.

Where xx = sub-document identifier

#### Possible sub-documents are:

```
<SDOAB> ABstract
<SDOBI> BIbliographic data
<SDOCL> CLaims
<SDODE> DEscription
<SDODR> DRawings
<SDOSR> Search Report
```

### Required Attribute(s):

None.

### Optional Attribute(s):

CY=country code Indicates the country where the sub-document "CLAIMS" especially relate to, abbreviated in

accordance with WIPO Standard ST.3 country code.

LA=language code Indicates language of the sub-document in accordance with International Standard ISO 639:1988.

STATUS= Status of the patent sub-document, eg. contains changes, republished, deleted, withdrawn, etc.

### DTD Syntax:

```
<!ELEMENT sdobi - o (B000?,B100,B200?,B300?,B400?,B500?,B600?,B700?,B800?,</pre>
                      B900?) +(bchg|echg) -- Bibliographic data ((h|p|pc|%img;)+) -- Abstract
                                                                                     -->
<!ELEMENT sdoab - o ((h|p|pc|%img;)+)
                                                                                     -->
<!ELEMENT sdodr - o (emi+)
                                                 -- Drawings
                                                                                     -->
<!ELEMENT sdode - o (h|p|pc|%img;)+
                                                 -- Description
                                                                                     -->
<!ELEMENT sdocl - o (h|p|%lst;)+
                                                 -- Claims
<!ELEMENT sdosr - o ((B510?, B520?, B560?, B580?) | (emi) +) -- Search report
                                                                                     -->
<!ATTLIST (sdobi|sdoab|sdode|sdocl|sdodr|sdosr)
                                la NAME #IMPLIED -- language(ISO 639)
                                                                                     --
                            cy NAME #IMPLIED -- country code status CDATA #IMPLIED -- Status of the sub-doc.
```

### Examples:

```
<SDOBI>
<B500><B542>Here is bibliographic data - it should contain other tags also</B500>
</SDOBI>
<SDOCL LA=F>
<OL>
```

<LI>Dispositif de reséquencement (RU) pour un noeud d'un système de commutation de cellules, chaque cellule étant constituée d'un nombre variable de sous-cellules ayant une longueur fixe, ce noeud comportant .....

```
<LI> ... </OL> </SDOCL>
```

<SDOAB LA=D>

<P>Die vorliegende Erfindung betrifft Impfstoffe auf Basis von Bovinen Herpesviren des Typs 1 (BHV-1) die Änderungen in Bereichen ihres Genoms enthalten, die für nicht-essentielle Teile essentieller Proteine kodieren. Mit Hilfe dieser Impfstoffe können geimpfte von nicht-geimpften Rindern unterschieden werden. Die Erfindung betrifft ferner Verfahren zur Isolierung und Herstellung der geänderten BHV-1 Stämme, Isolierung und Herstellung der geänderten Proteine und Peptide.

</SDOAB>



Ref.: Standards – ST.32 page: 3.32.11

<SDOCL LA=D CY=AT>

<OL>

<LI>Mikroorganismus DSM 7329 und DSM 7330.

<LI>Verfahren zur Herstellung von L-j-Aminosäuren durch enzymatische Umsetzung eines D-, L- und/oder D,L-5-monosubstituierten Hydantoins und/oder einer D-, L- und/oder D,L-N-Carbamoyl-j-aminosäure,<BR></OL>

</sdoct>

### 3. <CHG>: CHanGe

This indicates data which has been 'changed' (it could also indicate the original text). An end tag is required.

### Required Attribute(s):

DATE=YYYYMMDD Indicates the date on which the text was changed.

STATUS= Indicates the status of the change, the value of this attribute has been left open but one letter

codes are recommended, eg. A = amended text, D = deleted text, O = Original text.

### Optional Attribute(s):

None

### DTD Syntax:

### Example:

<P><CHG DATE=19950321 STATUS=A>This data was amended on 21 March 1995</CHG>

### 4. <BCHG>: Beginning of a CHanGe

This indicates bibliographic data which has been 'changed' (it could also indicate the original text). It is an empty element - it should be followed by <ECHG>.

### Required Attribute(s):

 $\mathtt{DATE} \texttt{=} YYYYMMDD$  Indicates the date on which the text was changed.

STATUS= Indicates the status of the change, the value of this attribute has been left open but one letter

codes are recommended, eg. A = amended text, D = deleted text, O = Original text.

### Optional Attribute(s):

None

### DTD Syntax:

```
<!ATTLIST bchg date NUMBER  #REQUIRED -- Date data changed -- status CDATA  #REQUIRED -- Status of the change -->
```

### Example:

<B235><BCHG DATE=19960321 STATUS=A><DATE>19960321CHG></B235>



Ref.: Standards – ST.32 page: 3.32.12

### 5. <ECHG>: End of CHanGe

This indicates the end of data which has been 'changed' in bibliographic data (it could also indicate the original text). It is an empty element - it should be preceded by <BCHG>.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT echg - o EMPTY -- End of changed bibliographic data -->

Example:

<B235><BCHG DATE=19960321 STATUS=A><DATE>19960321/DATE><ECHG></B235>

### 6. <H>: Headings

This indicates levels of headings which may be treated differently. An end tag is required.

Required Attribute(s):

None.

Optional Attribute(s):

LVL=n Indicates the level of the heading

ALIGN= Indicates the alignment of the header which may be centre, left, right - left is the default.

### DTD Syntax:

```
<!ELEMENT h -- (%ptext;)+ -- Header -->
<!ATTLIST h lvl NUMBER #IMPLIED -- Header level --
align (%align;) "left" -- alignment -->
```

### Examples:

<H>This is a default heading</H>

<h border="1"><H LVL=0>This is the title heading</h>

<H LVL=1>This is a sub-section heading</H>

### 7. <P>: Paragraphs

This indicates a text portion commonly known as a paragraph. No end tag is necessary.

Required Attribute(s):

None.

Optional Attribute(s):

N=nnnnn Consisting of a 6-digit sequence number indicating every paragraph in a document or

sub-document. Leading zeros may be dropped.

ALIGN= Indicates the alignment of the paragraph which may be centre, left, right - left is the default.



Ref.: Standards – ST.32 page: 3.32.13

### Example:

<P>First text paragraph. <P>Second text paragraph.

<P N=1>First text paragraph.<P N=2>Second text paragraph.

### DTD Syntax:

```
<!ELEMENT p - o (%ptext;)+ -- Paragraph elements -->
<!ATTLIST p n NUMBER #IMPLIED -- Reference number --
align (%align;) "left" -- alignment -->
```

### 8. <PC>: Paragraph Continuation

This indicates an interruption in a paragraph, for example, by a figure, table, etc. The existing paragraph should be continued. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT pc - o (%ptext;)+ -- Paragraph continuation -->
```

### Example:

```
<P N=12>Here starts a new text paragraph, it contains an EMI:
<EMI ID='2.1' HE=10 WI=20 TI=CF>
<PC>and continues without paragraph formatting ...
```

### 9. <BR>: BReak

This indicates a line break in general text. No end tag is necessary. Whether and how the break tag is interpreted at the time of presentation is not specified in this Recommendation. Note that this tag should not be used in mathematical formulae where <code><BREAK></code> is used.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT br - o EMPTY -- Line break -->
```

Example:

This line must break here This line must break here<br/>and also break here<br/>but that's all for this paragraph.
P>This line must break here<br/>here<br/>BR>but that's all for this paragraph.

Note: the above example assumes that the break tag is interpreted at the time of presentation as forcing a line break in the text. Other interpretations are possible.



Ref.: Standards – ST.32 page: 3.32.14

### 10. <FOO> : FOOtnotes

This tag identifies a text portion which is the contents of a footnote. The footnote should be inserted in the text stream at the point where it is first referred to. The presentation software will cause the footnote to appear, usually, at the bottom of the page. An end tag is required.

### Required Attribute(s):

FN=nnnn.nn

Consisting of a 4-digit sequence number indicating the page number of the original document on which the footnote occurred and a 2-digit sequence number indicating the sequence of footnotes on that particular page. Optionally, it may be replaced by a sequential numbering of footnotes within a document, in which case use FN=nnnnnn. Either form is valid. It must be a unique reference in the document. Leading zeros may be dropped.

### Optional Attribute(s):

None

### DTD Syntax:

```
<!ELEMENT foo -- (%ptext;)+ -- Footnotes --> <!ATTLIST foo fn NUTOKEN #REQUIRED -- Footnote id. -->
```

#### Example:

... text \*<Foo FN='10.1'>\* This is the text of the footnote - to be placed at the foot of a page - note that the asterisk "\*" is also part of this footnote</Foo> ....

*Note*: The indicator, in this case "\*", is NOT inserted by application software, as is normal, because in patent documentation it is often not possible to change data submitted by a patent applicant.

### 11. <FOR> : FOotnote Reference

This indicates from which point(s) in a document a footnote is referenced. An end tag is required.

### Required Attribute(s):

FNREF=nnnn.nn

Consisting of a 4-digit sequence number indicating the original page number on which the footnote occurred and a 2-digit sequence number indicating the sequence of footnotes on that particular page. This attribute should contain exactly the same value as the attribute of the referenced footnote (FN=). Optionally, it may be replaced by a sequential numbering within a document, in which case use FNREF=nnnnn. Either form is valid. Leading zeros may be dropped.

### Optional Attribute(s):

None

### DTD Syntax:

```
<!ELEMENT for -- (%ptext;)+ -- Footnote reference -->
<!ATTLIST for fnref NUTOKEN #REQUIRED -- Footref id. -->
```

### Example:

```
text<FOR FNREF='10.1'>*</FOR> ...
```

Note: At the time of presentation this should result in the SAME footnote as first appeared on page 10 of the original document being produced on the page where <FOR> is used. This may occur, for example, if there is a page break during processing between the two footnote references which were originally on the same page.



Ref.: Standards – ST.32 page: 3.32.15

### **TEXT 'HIGHLIGHTING' MARKUP**

Note: The following codes: <B>, <BAI>, <HAN>, <I>, <O>, <U>, <SB> and <SP> may be regarded as tags which can be used to mark characters, words, phrases, etc. as 'highlighted', that is emphasised in some way. In other instances they may be replaced by a 'pure' SGML tag such as <HPn>, highlighted phrase, where n is the numeric value assigned to a particular form of highlighting which is determined at the time of presentation (bold, italic, etc.). However, for patent documents, for the purposes of readability, it is recommended that the codes below be used instead. (Highlighted phrase identifiers are not contained in the DTD).

### 12. <B> : Bold

This indicates a text portion to be highlighted as bold. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT b - - (%ptext;)+ -(b)

-- Bold typeface

-->

Example:

This text is bold

<B>This text is bold</B>

### 13. <BAI>: BAlkaku

This indicates a Japanese text portion to be highlighted using an expanded font. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT bai -- (%ptext;)+-(bai|han) -- Expanded font -
```

### 14. <HAN>: HANkaku

This indicates a Japanese text portion to be highlighted using a compressed font. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT han -- (%ptext;)+-(han|bai) -- Compressed font -->
```



Ref.: Standards – ST.32 page: 3.32.16

### 15. <I>: Italic

This indicates a text portion to be highlighted as italic. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT i -- (%ptext;)+-(i) -- Italics -->

Example:

This text is italic <I>This text is italic</I>

### 16. <o>: 'Over' embellishments

The over-character tag is used to identify parts of text over which special accents or diacritical marks are to be placed.

Note: the 'mark' could also be placed mid character. In mathematical formulae use <ov>. An end tag is required.

Required Attribute(s):

None

### Optional Attribute(s):

POS= The position attribute defines the position of the mark and takes one of the values: above or mid.

The default value is above.

STYLE= The style attribute defines the style of the mark. It takes one of the values: single, double, triple,

dash, dots, or bold. The default value is single.

TYPE= The type attribute defines the type of the mark to be used. It takes one of the values: dot, dotdot,

dot3, dot4, tie, tiebrace, hat, hacek, acute, grave, cedil, ring, macron, ogonek, dblac, breve, tilde,

vec, rvec, dyad, circle, caret, prime, dprime, plus, none, bar. The default value is bar.

Note: Not all combinations of type and style attribute values would normally be used, eg typetilde, style=dots.

### DTD Syntax:

```
<!ELEMENT o -- (%ptext;)+-(o|ov) -- 'Over' embellishment --
<!ATTLIST o pos (above|mid) "above" -- position of 'over' embellishment --
type (%type;) "bar" -- types of embellishment(default bar) --
style (%style;) "single" -- Line style (default single) --:</pre>
```

### Examples:

This text has a single continuous bar over the whole sentence.

<>>This text has a single continuous bar over the whole sentence

The word example is covered by a dashed bar

The word <0 STYLEDASH>example</0> is covered by a dashed bar.



Ref.: Standards – ST.32 page: 3.32.17

### 17. <u>> : Under embellishments

The under-character tag is used to identify parts of text under which special accents or diactrical marks may be placed - typically an underscore. In mathematical formulae use <ov pos=below>. An end tag is required.

#### Required Attribute(s):

None

#### Optional Attribute(s):

STYLE=

The style attribute defines the style of the mark. It takes one of the values: single, double, triple,

dash, dots, or bold. The default value is single.

TYPE=

The type attribute defines the type of the mark to be used. It takes one of the values: dot, dotdot, dot3, dot4, tie, tiebrace, hat, hacek, acute, grave, cedil, ring, macron, ogonek, dblac, breve, tilde, vec, rvec, dyad, circle, caret, prime, dprime, plus, bar. The default value is bar.

Note: Not all combinations of type and style attribute values would normally be used, eg typetilde, styledots.

### DTD Syntax:

```
<!ELEMENT u -- (%ptext;)+-(u|ov) -- Underscore embellishment --> <!ATTLIST u type (%type;) "bar" -- types of embellishment(default bar) -- style(%style;)"single" -- Line style (default single) -->
```

### Examples:

This text has a single continuous underscore for the whole sentence.

<U>This text has a single continuous underscore (bar) for the whole sentence. </U>

for the whole sentence.</u>

The word <u>example</u> is underscored with a double bar.

The word <U STYLE=DOUBLE>example</U> is underscored with a double bar.

### 18. <SB>: SuBscript

This indicates a text portion to be placed as a subscript (inferior) to the immediately preceding character. An end tag is required. See also the <SUB> tag used in mathematical formulae.

### Required Attribute(s):

None

### Optional Attribute(s):

POS=

The position attribute takes one of the values: pre, mid or post, post being the default.

### DTD Syntax:

```
<!ELEMENT sb - - ((%hil;)|(#PCDATA))* - (fla) -- Subscript
<!ATTLIST (sp|sb) pos (PRE|MID|POST) "POST" -- Position (default post) -->
```

### Example:

 $H_2O \hspace{0.5cm} H{<} \texttt{SB}{>}2{<}/\,\texttt{SB}{>}0$ 



Ref.: Standards – ST.32 page: 3.32.18

### 19. <SP>: SuPerscript

This indicates a text portion to be placed as a superscript (superior) to the immediately preceding character. An end tag is required. See also the <SUP> tag used in mathematical formulae.

Required Attribute(s):

None

Optional Attribute(s):

POS= The position attribute takes one of the values: pre, mid or post, post being the default.

DTD Syntax:

```
<!ELEMENT sp -- ((%hil;)|(#PCDATA))*-(fla) -- Superscript -->
<!ATTLIST (sp|sb) pos (PRE|MID|POST) "POST" -- Position (default post) -->
```

Example:

 $X^{n-1}$  X < SP > n-1 < /SP >

### **MISCELLANEOUS**

#### 20. <CHF>: CHaracter Fraction constructs

This indicates 'fraction' constructs in general text. The alignment of 'numerator' and 'denominator' is centred by default. It should be used only in general text. An end tag is required. See also the 'true' fraction tag, <FRAC>, used in mathematical formulae.

Required Attribute(s):

None

Optional Attribute(s):

ALIGN= Indicates the alignment of the numerator and/or denominator, which may be centre, left, right -

centre is the default.

Example: (See below)

### 21. <CHFBR>: CHaracter Fraction BReak

This identifies the start of a character fraction 'denominator'. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

STYLE= The style attribute defines the style of the mark preceding the character fraction denominator. It

takes one of the values: single, double, triple, dash, dots, or bold. The default value is single.

TYPE= The type attribute defines the type of the mark to be used preceding the character fraction

denominator. It takes one of the values: dot, dotdot, dot3, dot4, tie, tiebrace, hat, hacek, acute, grave, cedil, ring, macron, ogonek, dblac, breve, tilde, vec, rvec, dyad, caret, circle, plus, prime,

dprime, bar, none. The default value is bar.

Note: Not all combinations of type and style attribute values would normally be used, eg typetilde, styledots.



Ref.: Standards – ST.32 page: 3.32.19

### DTD Syntax:

### Examples:

```
2x

3xy

CHF>2x<CHFBR>3xy</CHF>

20
CHF>20</CHF>D</CHF>
```

### 22. <FLA>: FLoating Accents

This indicates a character, or characters, enhanced with a particular attributing feature(s). It enables "composite" characters not in a character set to be composed from characters and character entity references. It should be used in combination with the <FLAC> tag. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

### DTD Syntax:

```
<!ELEMENT fla -- (((#PCDATA)|(%hil;))+, flac) -- Floating accent construct -->
```

### 23. <FLAC>: FLoating ACcent

This indicates the start of a floating accent to be placed above, mid, or below a base character, or characters, above is the default. It enables "composite" characters not in a character set to be composed from characters and character entity references. It should be used in combination with the <FLA> tag. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

POS= The position attribute takes one of the values: above, mid or below, above being the default.

### DTD Syntax:

```
<!ELEMENT flac - o ((#PCDATA)|(%hil;))+ -- Floating accent (upper part) -->
<!ATTLIST flac pos (ABOVE|MID|BELOW) "ABOVE" -- Position (default above) -->
```

### Examples:

```
Å <FLA>A<FLAC>&circ;</FLA>
a <FLA>a<FLAC>&bull;</FLA>
```



Ref.: Standards – ST.32 page: 3.32.20

### 24. <LTL>: LiTeraL text

as entered.

Indicates the beginning of text in which the space, indents, line endings, etc., should be preserved as keyed in the original layout. An end tag is required.

as entered.

</LTL>

```
Required Attribute(s):
None
Optional Attribute(s):
                    Width: 3-digit expression in millimetres.
wi=nnn
DTD Syntax:
                                                      -- Literal text -->
<!ELEMENT ltl -- CDATA
<!ATTLIST ltl wi NUMBER #IMPLIED
                                                      -- Width in mm
Example:
                                                           <LTL>
This text
                                                              This text
   has a special
                                                                 has a special
                                                                    layout
      layout
                                                                        which must be
          which must be
                                                                    preserved
      preserved
   exactly
                                                                 exactly
```



Ref.: Standards – ST.32 page: 3.32.21

### **PAGE STRUCTURE TAGS**

The following tags are specific to patent document processing and are to be used to indicate page structure in order to allow exact citation of pages, page numbers, columns and lines. For post processing of the data these tags can, of course, be ignored if required.

### 25. <TXF>: TeXt Frame

This indicates an area of text within a page of a document. An end tag is not allowed - it is an EMPTY element.

### Required Attribute(s):

WI=nnn

FR=nnnn Consisting of a 4-digit sequence number within a page.

Width: 3-digit expression in millimetres.

HE=nnn Height: 3-digit expression in millimetres.

Optional Attribute(s):

LX=nnnn 4-digit X-coordinate expressed in 1/10 millimetres referencing to the top left corner of the page.

Ly=nnnn 4-digit Y-coordinate expressed in 1/10 millimetres referencing to the top left corner of the page.

FONT=name The font used in the text frame, eg Courier, Helvetica, etc.

SIZE=nn A 2 digit number for the point size of the font.

LS=n Where n is the number (may be decimal) of the line spacing within the text frame.

### DTD Syntax:

ELEMENT txf -</th <th>o EMPTY</th> <th></th> <th> Text frame</th> <th>&gt;</th>	o EMPTY		 Text frame	>
ATTLIST txf fr</td <td>NUTOKEN</td> <td>#REQUIRED</td> <td> Txf identity</td> <td>&gt;</td>	NUTOKEN	#REQUIRED	 Txf identity	>
he	NUMBER	#REQUIRED	 Height in mm	>
wi	NUMBER	#REQUIRED	 Width in mm	>
lx	NUMBER	#IMPLIED	 X-coord 1/10 mm	>
ly	NUMBER	#IMPLIED	 Y-coord 1/10 mm	>
font	CDATA	#IMPLIED	 Font name	>
size	NUMBER	#IMPLIED	 Font point size	>
ls	NUTOKEN	#IMPLIED	 Line spacing	>

### Example:

```
<PATDOC CY=JP>
<SDOAB>
<TXF FR=0001 HE=080 WI=080 LX=0200 LY=1800>
<P>Japanese Patent Office abstract...
</SDOAB></PATDOC>
```

### 26. <DP>: Document Page

This indicates the beginning of a page. No end tag is necessary.

Note: The use of this tag is optional since it is a formatting tag. It may be discarded at the time of presentation.

However, it may be useful for patent documents where page citation is common and may need to be preserved in electronic document systems.

Required Attribute(s):

N=nnnn 4-digit number being the page number per document.

Optional Attribute(s):

None



Ref.: Standards – ST.32 page: 3.32.22

### DTD Syntax:

```
<!ELEMENT dp - o EMPTY -- Document page break -->
<!ATTLIST dp n NMTOKEN #REQUIRED -- Document page number -->
```

### Example:

<DP N=6>This is the start of page 6

### 27. <PCL>: Page CoLumn

This indicates the beginning of a column in a page. It should always be preceded by <TXF> tag. No end tag is necessary.

Note: The use of this tag is optional since it is a formatting tag. It may be discarded at the time of presentation.

However, it may be useful for patent documents, where column citation is used, and may need to be preserved in electronic document systems.

### Required Attribute(s):

N=nnnn 4-digit number being the column number.

### Optional Attribute(s):

None

### DTD Syntax:

```
<!ELEMENT pcl - o EMPTY -- Page column -->
<!ATTLIST pcl n NMTOKEN #REQUIRED -- Page column number -->
```

### Example:

<PCL N=2>This is the start of column 2

### 28. <PLN>: Page LiNe

This indicates the beginning of a line within a page. It should always be preceded by a <TXF> tag. No end tag is necessary.

Note: The use of this tag is optional since it is a formatting tag. It may be discarded at the time of presentation. However, it may be useful for patent documents, where line number citation is common, and may need to be preserved in electronic document systems.

### Required Attribute(s):

N=nnnn 4-digit number being the line number.

### Optional Attribute(s):

None

### DTD Syntax:

```
<!ELEMENT pln - o EMPTY -- page line -->
<!ATTLIST pln n NMTOKEN #REQUIRED -- page line number -->
```

### Example:

<PLN N=15>This is the start of line 15



Ref.: Standards – ST.32 page: 3.32.23

### LISTS

TABLE OF SGI	TABLE OF SGML TAGS AND ATTRIBUTES			
TAG	NAME	DESCRIPTION		
<dd></dd>	Definition Description	Indicates a text portion which is the description of a tagged item in a definition list. No end tag is necessary.		
<dl></dl>	Definition List	Indicates a text portion to be displayed as a list, each item comprising a term followed by a description. An end tag is required.		
<dt></dt>	Definition Term	Indicates a text portion which is the term in a definition list. No end tag is necessary.		
<li></li>	List Item	Indicates the beginning of an item which forms part of a simple, ordered or unordered list. No end tag is necessary.		
<ol></ol>	Ordered List	Indicates a text portion to be displayed as a list, each item being identified by a sequential number or letter. An end tag is required.		
<sl></sl>	Simple List	Indicates a text portion to be displayed as a simple list. An end tag is required.		
<ul></ul>	Unordered List	Indicates a text portion to be displayed as a list, each item identified by a symbol which is defined in a required attribute (ST). An end tag is required.		
ATTRIBUTE	NAME	DESCRIPTION		
COMPACT	COMPACT	Indicates if lists should be processed as compact		
LEVEL	LEVEL	Nesting level of a list		
NUMSTYLE	NUMSTYLE	Numeric style of a list		
PREFIX	PREFIX	Prefix for each list item		
ST	STyle	Style (character or graphic) of an unordered list item		
TSIZE	Term SIZE	Indicates the horizontal space allowed for definition terms plus gutter space		



Ref.: Standards - ST.32 page: 3.32.24

### SGML TAGS: DESCRIPTION AND USAGE

#### 29. <DL>: Definition List

This indicates a text portion known as a definition or glossary list. A definition list contains one or more items, each followed by its description. The items are identified by the <DT> identifier and the description by the <DD> identifier. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

This attribute is used to specify the indent to be used for the definition description. It is normally TSIZE=

larger than the maximum width of the terms.

Used to indicate when no blank lines are to be left between definition items at the time of COMPACT=

presentation.

DTD Syntax:

<!ELEMENT dl - - (dt, dd) +-- Definition list -->

- - (dt,dd) + -- Definition list tsize NUMBER #IMPLIED -- Term size attribute compact (compact) #IMPLIED -- Spacing between items <!ATTLIST dl

Example: (see below)

#### 30. <DT>: Definition Term

This indicates a term in a definition list. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT dt - o (%ptext;) -- Definition term

Example: (see below)

#### 31. <DD>: Definition Description

This indicates the description of an item (term) marked PT> in a definition list. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT dd - o ((%ptext;)|p)+ -- Definition description -->



Ref.: Standards – ST.32 page: 3.32.25

Example: In this example it is assumed that none of the terms exceed the length that may have been specified as

default for such lists.

EPO European Patent Office <DL>
<DT>EPO

JPO Japanese Patent Office <DD>European Patent Office

<DT>**JPO** 

USPTO United States Patent and Trademark Office <DD>Japanese Patent Office

<DT>USPTO

<DD>United States Patent and Trademark Office

</DL>

#### 32. <OL>: Ordered List

This indicates a portion of structured text known as a list. An ordered list will have a sequence of numbers or letters generated at the time the document is created, not at the time of presentation, to indicate the relative position in the list of each item. Lists may be nested. An end tag is required.

### Required Attribute(s):

None

### Optional Attribute(s):

COMPACT= Used to indicate when no blank lines are to be left between items at the time of presentation.

LEVEL= Used to indicate the nesting level of a list.

NUMSTYLE= Used to indicate the numeric style of a list.

PREFIX= Used to indicate prefix for each list item.

### DTD Syntax:

```
<!ELEMENT ol -- (li)+ -- Ordered list -->
<!ATTLIST ol compact (compact) #IMPLIED -- Spacing between items --
level NUMBER #IMPLIED -- Nesting level of list --
numstyle CDATA #IMPLIED -- Numbering style --
prefix CDATA #IMPLIED -- Prefix for each list item -->
```

Example: (see below)

### 33. <SL>: Simple List

This indicates a portion of structured text known as a list. A simple list will not have anything preceding the list items to indicate them as such. Lists may be nested. An end tag is required.

### Required Attribute(s):

None

### Optional Attribute(s):

COMPACT= Used to indicate when no blank lines are to be left between items at the time of presentation.

LEVEL= Used to indicate the nesting level of a list.

### DTD Syntax:

```
<!ELEMENT sl -- (li)+ -- Simple list -->
<!ATTLIST sl compact (compact) #IMPLIED -- Spacing between items --
level NUMBER #IMPLIED -- Nesting level of list -->
```

Example: (see below)



Ref.: Standards - ST.32 page: 3.32.26

#### 34. <UL>: Unordered List

This indicates a portion of structured text known as a list. An unordered list will have symbols generated at the time of presentation to indicate each item. Lists may be nested. An end tag is required.

Required Attribute(s):

This attribute is followed by an identifier for the character or the graphic symbol required to ST =

indicate each separate item in the list.

Optional Attribute(s):

COMPACT= Used to indicate when no blank lines are to be left between items at the time of presentation.

LEVEL-Used to indicate the nesting level of a list.

DTD Syntax:

<!ELEMENT ul -- Unordered list st NMTOKEN #REQUIRED level NIMRED "----- - (li) +

<!ATTLIST ul st -- Ulist symbol

NMTOKEN #ABSOLLED
NUMBER #IMPLIED -- Nesting level of list -- Spacing between items compact (compact) #IMPLIED

Example: (see below)

35. <LI>: List Item

This indicates an item of a list, 
 <sl> and 
 No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT li - o ((%ptext;)|p)+ -- List item -->

Examples:

Text Text<SL><LI>First item in a simple list. <LI>Second

item.</sl>

First item in a simple list.

Second item.

more text.

Text Text<OL COMPACT=COMPACT><LI>First item in a

1. First item in a compact ordered list. compact ordered list.<LI>Second item.

2. Second item. 

more text.

Text Text

<UL ST="&bull;"> First item in an unordered list with 'bullets'.

<LI>First item in an unordered list with 'bullets'.

<LI>Second item. Second item.

</III.> more text. more text

Note: here we have a character entity reference "•" since a 'bullet' is not a character in the base code page ISO 646. It is contained in the public entity references cited in the DTD at Annex B.



Ref.: Standards – ST.32 page: 3.32.27

### **IMAGES**

TABLE OF SG	TABLE OF SGML TAGS AND ATTRIBUTES			
TAG	NAME	DESCRIPTION		
<ele></ele>	Embedded image	Indicates a portion of text directly related to an embedded image.		
	LEgend	Attributes required. An end tag is required.		
<emi></emi>	EMbedded Image	Indicates non character-coded data. Attributes required. No end tag is required since this is a reference to an external image file and the tag is empty.		
<emr></emr>	EMbedded image Reference	Indicates a reference to a previous EMI. Attributes required. No end tag is necessary since it is self-contained and the tag is empty.		
<rti></rti>	Replacement of Text by Image	Indicates text that is also captured as an image. The image data may be used in place of the text in order to guarantee that presentation is identical to the original document. Attributes required. An end tag is necessary.		
<gai></gai>	GAlji	Indicates a reference to a Gaiji (Japanese) dot font file which is composed of five dot font files. Attributes required. An end tag is required.		
ATTRIBUTE	NAME	DESCRIPTION		
FILE	FILE	External file name of the image		
HE	HEight	Height of images in mm		
ID	InDentifier	Has various parameters depending on tag		
IMF	IMage Format	Indicates the image format of a stored image.		
LX	X coordinate	X coordinate of image in 1/10mm		
LY	Y coordinate	Y coordinate of image in 1/10mm		
TI	Type of Image	Type of image stored		
WI	Wldth	Width of images in mm		



Ref.: Standards - ST.32 page: 3.32.28

### SGML TAGS: DESCRIPTION AND USAGE

#### 36. <EMI>: EMbedded Image

This indicates any information which is not character coded, for example, drawings, chemical structures, graphs, etc. It is non-SGML data. No end tag is necessary since no text is allowed, it is empty. The information will normally be stored in a standard graphics file format. WIPO Standard ST.33 (compression according to CCITT Group 4) is the recommended default.

For external references, that is, to the image itself, we have a unique identifier to the external name of the image via the use of a file name which, for patent documents, is usually the publication number, or application number, of the patent document (acting as the unique filename) in combination with the internal identification specified below.

#### Required Attribute(s):

ID=nnnn.nnnn

Internal identifier consisting of a 4-digit sequence number indicating the original page number on which the image occurred and a 4-digit sequence number indicating the sequence of images on that particular page. (This follows the frame and sequence number indexing methodology used in WIPO Standard ST.33). Optionally, it may be replaced by a sequential numbering of images

within a document, in which case use ID=nnnnnnn. Either form is valid.

 ${\tt HE} = nnn$ Height: 3-digit expression in millimetres.

WI=nnn Width: 3-digit expression in millimetres.

Optional Attribute(s):

FILE=name

Where 'name' is the name (with pointer if required) of the image file, which contains the

embedded image.

LX=nnnn

4-digit X-coordinate expressed in 1/10 millimetres of embedded image location referencing to the

top left corner of the page.

LY=nnnn

4-digit Y-coordinate expressed in 1/10 millimetres of embedded image location referencing to the

top left corner of the page.

Note: The above two attributes should be used only when physical pages are represented. In all

cases leading zeros may be dropped.

IMF=

Indicates, generally, the type of IMage Format, or File, of the stored image. Possible formats and

files include:

WIPO ST.33 (default) ST33 Computer Graphics Metafile CGM EPS **Encapsulated Postscript** CCITT Group 3 compression G3 CCITT Group 4 compression G4 TIFF Tag Image File Format

IGES Initial Graphics Exchange Format Joint Photographic Experts Group Format **JPEG** Motion Picture Experts Group Format

MPEG Digital Research GEM GEM

Adobe Illustrator ΑI

Compuserve Graphics Image Format GIF

PCT Apple Picture File Format Microsoft Bitman File Format BMP Paintbrush File Format PCX WMF Windows Metafile Format

Hewlett-Packard Graphics Language PGL WordPerfect Graphics File format WPG

etc.

The default format used is office-dependent and must be stated in the DTD. Also note that they are not mutually exclusive, for example, ST.33 and TIFF files may comprise CCITT Group 4 compression.



Ref.: Standards – ST.32 page: 3.32.29

TI=	Type of embe	dded Image. Possible type names include:
	AD	Abstract Drawing
	CF	Chemical Formulae
	CI	Clipped Image
	CP	Computer Programs
	DN	DNa sequences
	DR	DRawings
	FF	undefined characters
	FG	FiGures
	GR	GRaphs
	MF	Mathematical Formulae
	PA	Full PAge facsimile image
	PH	PHotographs
	SR	Search Report forms
	TB	TaBular data
	TX	TeXt character(s)
	UI	Undefined Images

### DTD Syntax:

```
- o EMPTY
<!ELEMENT emi
                                                -- Embedded image
<!ATTLIST emi id
                  NUTOKEN
                             #REQUIRED
                                                -- Image identity
                                                -- Height in mm
                  NUMBER
                             #REQUIRED
             he
                  NUMBER
                             #REQUIRED
                                                -- Width in mm
              wi
                             #IMPLIED
                                                -- image file name
              file CDATA
                  NUMBER
                                                -- X-coord 1/10 mm
              lx
                             #IMPLIED
                  NUMBER
                             #IMPLIED
                                                -- Y-coord 1/10 mm
              ly
              imf (%imgfmt;) #IMPLIED
                                                -- Format stored emi
              ti (AD|CF|CI|CP|DN|DR|FF|FG|GR|MF|PA|PH|SR|TB|TX|UI) #IMPLIED
                                                -- Image type
```

### Examples:

```
<EMI ID='2.1' HE=10 WI=20 TI=CF>
```

Identifies the first embedded image on page 2 of the current document which is a chemical representation with actual sizes of 10mm vertical and 20mm horizontal.

```
<EMI FILE="d:\image\fig22.wpg" ID="12.6" HE=30 WI=100 IMF=WPG TI=MF>
```

Note: The identity attribute has been standardised for embedded images, footnotes and their associated references. The use of page and frame number generates a unique code within a document that will:

- identify the related entities;
- form a means of reference to the original document when inspecting the digitised data; and
- bind the entities together at the time of presentation, without regard to the fact that the final page location may differ from that of the original document.

### 37. <ELE>: Embedded image LEgend

This indicates a portion of text directly related to an embedded image. An end tag is required.

### Required Attribute(s):

ID=nnnn.nnnn

Consisting of a 4-digit sequence number indicating the page number on which the image occurred and a 4-digit sequence number indicating the sequence of images on that particular page. This attribute contains exactly the same values as the congruent attribute of the related embedded image. Optionally, it may be replaced by a sequential numbering of images within a document, in which case use ID=nnnnnnn. Either form is valid. Leading zeros may be dropped.

### Optional Attribute(s):

None



Ref.: Standards – ST.32 page: 3.32.30

### DTD Syntax:

```
<!ELEMENT ele -- (%ptext;)+ -- Figure caption -->
<!ATTLIST ele id NUTOKEN #REQUIRED
```

#### Examples:

...<ELE ID="2.1">This is the legend of the first embedded image on page 2</ELE>...

### 38. < EMR>: EMbedded image Reference

This indicates a reference to an embedded image. The tag is self-contained. This tag should be used for refering to images which occur more than once in a document, since the full <EMI> tag need not be repeated and the image need not be scanned more than once.

### Required Attribute(s):

ID=nnnn.nnnn

Consisting of a 4-digit sequence number indicating the original page number on which the image occurred and a 4-digit sequence number indicating the sequence of images on that particular page. This attribute contains exactly the same values as the congruent attribute of the referenced embedded image. Optionally, it may be replaced by a sequential numbering of images within a document, in which case use ID=nnnnnnnn. Either form is valid. Leading zeros may be dropped.

### Optional Attribute(s):

None

### DTD Syntax:

```
<!ELEMENT emr - o EMPTY -- Reference to emi --> <!ATTLIST emr id NUTOKEN #REQUIRED
```

### Examples:

...<EMR ID="2.1">This is a reference to the first embedded image on page 2...

*Note*: For further explanation see <EMI> above.

### 39. <RTI>: Replacement of Text by Image

Indicates text that is also captured as an image. The image data may be used in place of the text in order to guarantee that presentation is identical to the original document. An end tag is required. The image should be stored in a standard format, for example WIPO Standard <u>ST.33</u>.

### Required Attribute(s):

ID=nnnn.nnnn Consisting of a 4-digit sequence number indicating the page number on which the image occurred and a 4-digit sequence number indicating the sequence of images on that particular page. Optionally, it may be replaced by a sequential numbering of images within a document, in which case use ID=nnnnnnnn. Either form is valid. In both cases leading zeros may be deleted.

HE=nnn Height: 3-digit expression in millimetres.

WI=nnn Width: 3-digit expression in millimetres.



Ref.: Standards – ST.32 page: 3.32.31

Optional Attribute(s):

FILE=name Where 'name' is the name (with pointer if required) of the image file, which contains the RTI

image.

IMF= Indicates, generally, the type of IMage Format, or File, of the stored image.

See <EMI> for full list.

ST33 WIPO ST.33 (default)

The default format used is office-dependent and must be stated in the DTD. Also note that they are not mutually exclusive, for example, a TIFF file may comprise CCITT Group 4 compression.

LX=nnnn 4-digit X-coordinate expressed in 1/10 millimetres of embedded image location referencing to the

top left corner of the page.

LY=nnnn 4-digit Y-coordinate expressed in 1/10 millimetres of embedded image location referencing to the

top left corner of the page.

*Note*: The above two attributes are used only when physical pages are represented.

### DTD Syntax:

```
<!ELEMENT rti - - CDATA
                                         -- Replace text with image
                         #REQUIRED
                                         -- rti identity
-- Height in mm
<!ATTLIST rti id NUTOKEN
             he
                 NUMBER
                           #REQUIRED
             wi NUMBER
                           #REQUIRED
                                         -- Width in mm
                          #IMPLIED
#IMPLIED
             file CDATA
                                         -- image file name
             lx NUMBER
                                         -- X-coord 1/10 mm
             ly NUMBER #IMPLIED
                                          -- Y-coord 1/10 mm
             imf (%imgfmt;)#IMPLIED
                                          -- image format
```

### Example:

```
<SDOBI><B100>Minimum B100 tags required here<B100>
<RTI ID=00000001 HE=150 WI=170 LX=0200 LY=0300>
Japanese Patent Office title page (bibliographic information)...
</RTI>
</RDOBI>
```

### 40. <GAI>: GAIji

This indicates a reference to a Gaiji dot font file which is composed of five dot font files each of different sizes. It may be of particular use within the Japanese Patent Office. An end tag is required.

### Required Attribute(s):

ID=nnnn Consisting of a 4-digit number indicating the sequence number of the dot font character in the

Gaiji file.

### Optional Attribute(s):

None.

### DTD Syntax:

```
<!ELEMENT gai -- CDATA -- Gaiji character -->
<!ATTLIST gai id NUTOKEN #REQUIRED
```

### Example:

⟨GAI ID=0001> Japanese Gaiji dot font character </GAI>



Ref.: Standards – ST.32 page: 3.32.32

### **TABLES**

TABLE OF SGML TAGS AND ATTRIBUTES			
TAG	NAME	DESCRIPTION	
<cel></cel>	table CELI	Indicates start of a new cell. No end tag is necessary.	
<row></row>	table ROW	Indicates start of a new row. No end tag is necessary.	
<tab></tab>	TABle	Indicates the beginning of the tabular data. Attribute required. An end tag is required.	
<tch></tch>	Table Column Header	For one particular column or multiple columns. No end tag is necessary.	
<tsb></tsb>	Table StuB lines	For single or multiple rows. No end tag is necessary.	
<tsh></tsh>	Table SubHeading	For one or more columns, same as for header. No end tag is necessary.	
<tti></tti>	Table Title	May appear above or below the actual table. No end tag is necessary.	
ATTRIBUTE	NAME	DESCRIPTION	
AL	ALign	Used to justify the tabular data	
СВ	Column Begin	Indicates start and end columns	
CE	Column End	For straddle headers or cells	
CO	COlumn	Number of columns in the table	
CS	Column Separator	Column separation attributes	
ID	IDentifier	Any identifier applied to the original table	
OR	ORientation	Used to signal table orientation	
RB	Row Begin	Indicates start and end rows	
RE	Row End	For straddle stub lines or cells	
ROTATION	ROTATION	Rotation of data within a cell	
RS	Row Separator	Row separation attributes	



Ref.: Standards – ST.32 page: 3.32.33

#### SGML TAGS: DESCRIPTION AND USAGE

#### 41. <TAB>: TABular material

This indicates the beginning of tabular data. An end tag is required.

Required Attribute(s):

co=nn 2-digit number giving the total number of columns in a table.

Optional Attribute(s):

ID= Any identifier applied to the original table, for example, 'TABLE 1.'

OR= Orientation.

L Landscape
Portrait (default)

RS= Row Separator(s)

CS= Column Separator(s)

RS and CS consist of a row or column identifier and separator style.

Row and Column identifiers are:

P Preceding first column or row Following last column or row

A All columns or rows not explicitly identified n Explicit number of row or column to follow

Separator style.
Possible styles are:

BL blank space between (default)

S single
D double
T triple
B bold
DA dashed
DT dotted

### DTD Syntax:

ELEMENT tab</th <th> (row, (%rowcnt;))p)+</th> <th> Main structure</th> <th>&gt;</th>	(row, (%rowcnt;))p)+	Main structure	>
ATTLIST tab</td <td>co NUMBER #REQUIRED</td> <td> Number of columns</td> <td></td>	co NUMBER #REQUIRED	Number of columns	
	or (L P) "P"	Orientation	
	id CDATA #IMPLIED	Identifier	
	cs CDATA #IMPLIED	Col separators	
	rs CDATA #IMPLIED	Row separators	

#### Examples:

```
<TAB CO=5 ID='Table 1'>
<ROW><CEL>DATA 1<CEL>DATA 2<CEL>DATA 3<CEL>DATA 4<CEL>DATA 5
</TAB>
```

tabular material consisting of five columns of information identified as Table 1:

Table 1

DATA 1 DATA 2 DATA 3 DATA 4 DATA 5

<TAB CO=6 RS='P B F B A S' CS='P B F B A S'>
<ROW><CEL>DATA 1<CEL>DATA 2<CEL>DATA 3<CEL>DATA 4<CEL>DATA 5<CEL>DATA 6</ri>



Ref.: Standards – ST.32 page: 3.32.34

Tabular material consisting of six columns of information surrounded by a bold box and the rows and columns separated by single lines:

See also below.

#### 42. <TTI>: Table Title

This indicates the title of the tabular data. A title would usually appear above the table but it may also appear below where it would be termed a caption, but the same tag will suffice. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

AL= L Left R Right

C Centered (default)

DTD Syntax:

<!ELEMENT tti - o (%ptext;)\* -- Table title -->
<!ATTLIST tti al (L|R|C) "C" -- Text alignment -->

Example:

<TTI>Title of the Table.

### 43. <TCH>: Table Column Header

This indicates the header of one column or multiple columns in the table. No end tag is necessary.

Required Attribute(s):

None.

Optional Attribute(s):

AL= L Left
R Right

C Centered (default)

CB=nn 2-digit number giving start column in the case of a straddled header.

CE=nn 2-digit number giving end column in the case of a straddled header.

DTD Syntax:

# Examples:

<TCH>Header for single column

 ${\tt <TCH}$  CB=1 CE=2>Header which straddles both columns one and two.



Ref.: Standards – ST.32 page: 3.32.35

#### 44. <TSH>: Table Sub-Header

This indicates the subheader of one column or multiple columns in the table. No end tag is necessary.

Required Attribute(s):

None.

Optional Attribute(s):

 $\mathtt{AL} = \qquad \qquad \mathtt{L} \qquad \qquad \mathsf{Left}$ 

R Right

C Centered (default)

CB=nn 2-digit number giving start column in the case of a straddled header.

CE=nn 2-digit number giving end column in the case of a straddled header.

#### DTD Syntax:

#### Examples:

<TSH>Subheader for single column

### 45. <TSB>: Table StuB line

This indicates the stub line (text descriptor) for one or more rows in the table. No end tag is necessary.

# Required Attribute(s):

None.

Optional Attribute(s):

L Left (default)
R Right
C Centered
D Decimal

E Exponent

RB=nn 2-digit number giving start row in the case of a straddled stub line.

RE=nn 2-digit number giving end row in the case of a straddled stub line.

Note: Stub lines may straddle rows. If the leftmost column contains row-straddling stub lines, then all stub lines must specify the RB= (row begin) attribute. Straddling stub lines must also specify the RE= (row end) attribute.

#### DTD Syntax:

#### Examples:

<TSB RB=1>Stub line for a single row where a subsequent stub line straddles more than one row.

<TSB RB=7 RE=8>Stub line which straddles rows seven and eight.



Ref.: Standards – ST.32 page: 3.32.36

#### 46. <ROW>: ROW

This indicates the start of a new row in the table. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

Note: Simple rows contain only cells. Each cell may contain more than one line of type. Other rows may contain stub lines as the left-most cell. Stub lines may straddle more than one row.

DTD Syntax:

```
<!ELEMENT row - o EMPTY -- Table row -->
```

#### Examples:

<ROW>row five of table
<ROW>row six of table.

#### 47. <CEL>: CELI

This indicates the start of a new data cell in the table. No end tag is necessary.

Required Attribute(s):

None.

Optional Attribute(s):

AL= Right (default)

L Left
C Centered
D Decimal
E Exponent

RB=nn 2-digit number giving start row in the case of straddled cells.

RE=nn 2-digit number giving end row in the case of straddled cells.

CB=nn 2-digit number giving start column in the case of straddled cells.

CE=nn 2-digit number giving end column in the case of straddled cells.

 ${\tt ROTATION=} \qquad \qquad {\textbf{Specifies the rotation of the contents of a cell.}}$ 

Note: Cells may straddle columns and/or rows. If a row contains column straddling cells, then all cells must specify the column begin attribute. Likewise, if a row contains row straddling cells, all cells must specify the row begin attribute. Straddling cells must also specify the row end and/or column end attributes. Some rows may contain stub lines as the leftmost cell. Stub lines may also straddle rows but never columns.

# DTD Syntax:



Ref.: Standards – ST.32 page: 3.32.37

Examples:

Simple Table Rows

<ROW><CEL>Data<CEL>Data<CEL>Data

Complex Table Rows

<ROW><CEL CB=1>Data<CEL CB=2 CE=3>Data<CEL CB=4>Data

Table I - Original

COOLING SYSTEM COMPONENTS							
DESCRIPTION	RETAIL PRI	RETAIL PRICE					
	ex VAT	inc VAT	in stock				
Radiators	295.50	330.00	3,012				
Hose Clips	5.25	6.25	27,435				
Lower Pipes	23.66	26.50	12,445				
Upper Pipes	21.35	23.00	13,752				
Caps	15.50	17.00	4,049				
Pumps	341.00	375.00	3,553				

Table I - Structure

!	<tti></tti>		!
++	+	+	+
! <tch> !</tch>	! <tc< td=""><td>:H&gt; !</td><td>! <tch></tch></td></tc<>	:H> !	! <tch></tch>
++	+		+
++		++	+
! <tsh> ! ++</tsh>	! <tsh> ! ++</tsh>	! <tsh> !</tsh>	! <tsh></tsh>
T+	T+	++	+
++	++	++	+
! <tsb> !</tsb>	! <cel> !</cel>	! <cel> !</cel>	! <cel></cel>
++	++	++	+
++	++	++	+
! <tsb> ! ++</tsb>	! <cel> !</cel>	! <cel> !</cel>	! <cel></cel>
++	++	++	+
! <tsb> !</tsb>	! <cel> !</cel>	! <cel> !</cel>	! <cel></cel>
++	++	++	+
++	++	++	+
! <tsb> ! ++</tsb>	! <cel> !</cel>	! <cel> !</cel>	! <cel></cel>
++	++	++	+
! <tsb> !</tsb>	! <cel> !</cel>	! <cel> !</cel>	! <cel></cel>
++	++	++	+
++	++	++	+
! <tsb> !</tsb>	! <cel> !</cel>	! <cel> !</cel>	! <cel></cel>
++	++	++	+

Table I - Markup



Ref.: Standards - ST.32 page: 3.32.38

<TAB CO=4 RS=0'PS FS AS' CS='PS FS AS'> <ROW><TTI>COOLING SYSTEM COMPONENTS <ROW><TCH AL=L>DESCRIPTION <TCH CB=2 CE=3>RETAIL PRICE <TCH AL=R>QUANTITY <ROW><TSH> <TSH AL=R>ex Vat <TSH AL=R>inc Vat <TSH AL=R>in stock <ROW><TSB>Radiators<CEL AL=D>295.50<CEL AL=D>330.00<CEL>3,012 <ROW><TSB>Hose Clips<CEL AL=D>5.25<CEL AL=D>6.25<CEL>27,435 <ROW><TSB>Lower Pipes<CEL AL=D>23.66<CEL AL=D>26.50<CEL>12,445 <ROW><TSB>Upper Pipes<CEL AL=D>21.35<CEL AL=D>23.00<CEL>13,752 <ROW><TSB>Caps<CEL AL=D>15.50<CEL AL=D>17.00<CEL>4,049 <ROW><TSB>Pumps<CEL AL=D>341.00<CEL AL=D>375.00<CEL>3,553 </TAB>

#### Table II - Original

TABLE 1 THE CURING OF C	COATING COME	POSITIONS UNDER	ULTRAVIOLET LIGHT			
COMPOSITION	TIME (MIN.)	D-IMPACT* THICKNESS (MIL)	R-IMPACT** ADMISSION	HARDNESS	(IN- LB) ***	(IN- LB2)***
1	75	0.1-0.2	90 percent	8Н	25	10
	180	0.3-0.5	100 percent	2Н	50	10
	180	0.5	100 percent	НВ	100	0
2	130	0.1-0.2	100 percent	8Н	25	0
	150	0.1-0.2	100 percent	8Н	25	0
3	60	0.2	100 percent	8Н	50	0
	120	0.2	100 percent	8Н	50	0
4	60	0.2	100 percent	8н	30	10
	90	1.0	60 percent	8н	40	10
5	120	0.4-0.5	95 percent	8н	30	10
6	120	0.2	100 percent	8н	25	0
7	60	0.4	100 percent	8н	160	50
	120	0.4	100 percent	8Н	160	50
8	60	0.4-0.5	100 percent	8н	75	10
9	60	0.2-0.4	100 percent	8н	40	0
10	60	0.2-0.4	100 percent	8н	40	0
11	30	0.5	100 percent	8н	100	100
12	30	0.05-0.07	100 percent	6Н	40	10
* Direct impact ** Reverse impa						•

<sup>\*\*\*</sup> Inch-Pounds



Ref.: Standards – ST.32 page: 3.32.39

<tab co="7&lt;/th"><th>ID='TABLE</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Colu + !</th><th>K</th></tab>	ID='TABLE											Colu + !	K
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	! <cel> ! ++</cel>												



Ref.: Standards – ST.32 page: 3.32.40

## Table II - Mark-up

```
<TAB CO=7 ID='TABLE 1' RS='PS FS AS' CS='PS FS AS'>
<ROW><TTI>THE CURING OF COATING COMPOSITIONS UNDER ULTRAVIOLET LIGHT
<ROW><TCH><U>COMPOSITION</U>
<TCH><U>TIME(MIN.)</U>
<TCH>D-IMPACT<FOR FNREF="18.1">*</FOR><U>THICKNESS (MIL)</U>
<TCH>R-IMPACT<FOR FNREF="18.2">**</FOR><U>ADHESION</U>
<TCH><U>HARDNESS</U>
<TCH><U>(IN-LB)<FOR FNREF="18.3">***</FOR></U>
<TCH><U>(IN-LB2)<FOR FNREF="18.3">***</FOR></U>
<ROW><TSB RB=3 RE=5>1<CEL>75<CEL AL=C>0.1-0.2<CEL>90 percent<CEL>8H<CEL>25<CEL>10
< \texttt{ROW} > < \texttt{CEL} > 180 < \texttt{CEL} \quad \texttt{AL} = \texttt{C} > 0.3 - 0.5 < \texttt{CEL} > 100 \; \texttt{percent} < \texttt{CEL} > 2H < \texttt{CEL} > 50 < \texttt{CEL} > 100 
<ROW><CEL>180<CEL>0.5<CEL>100 percent<CEL>HB<CEL>100<CEL>0
<ROW><TSB RB=6 RE=7>2<CEL>130<CEL AL=C>0.1-0.2<CEL>100 percent<CEL>8H<CEL>25<CEL>0
<ROW><CEL>150<CEL AL=C>0.1-0.2<CEL>100 percent<CEL>8H<CEL>25<CEL>0
<ROW><TSB RB=8 RE=9>3<CEL>60<CEL AL=C>0.2<CEL>100 percent<CEL>8H<CEL>50<CEL>0
<ROW><CEL>120<CEL AL=C>0.2<CEL>100 percent<CEL>8H<CEL>50<CEL>0
<ROW><TSB RB=10 RE=11>4<CEL>60<CEL AL=C>0.2<CEL>100 percent<CEL>8H<CEL>30<CEL>10
<ROW><CEL>90<CEL AL=C>1.0<CEL>60 percent<CEL>8H<CEL>40<CEL>10
<ROW><TSB RB=12>5<CEL>120<CEL AL=C>0.4-0.5<CEL>95 percent<CEL>8H<CEL>30<CEL>10
<ROW><TSB RB=13>6<CEL>120<CEL AL=C>0.2<CEL>100 percent<CEL>8H<CEL>25<CEL>0
<ROW><TSB RB=14 RE=15>7<CEL>60<CEL>0.4<CEL>100 percent<CEL>8H<CEL>160<CEL>50
<ROW><CEL>120<CEL AL=C>0.4<CEL>100 percent<CEL>8H<CEL>160<CEL>50
<ROW><TSB RB=16>8<CEL>60<CEL AL=C>0.4-0.5<CEL>100 percent<CEL>8H<CEL>75<CEL>10
<ROW><TSB RB=17>9<CEL>60<CEL AL=C>0.2-0.4<CEL>100 percent<CEL>8H<CEL>40<CEL>0
<ROW><TSB RB=18>10<CEL>60<CEL AL=C>0.2-0.4<CEL>100 percent<CEL>8H<CEL>40<CEL>0
<ROW><TSB RB=19>11<CEL>30<CEL AL=C>0.5<CEL>100 percent<CEL>8H<CEL>100CEL>100
<ROW><TSB RB=20>12<CEL>30<CEL AL=C>0.05-0.07<CEL>100 percent<CEL>6H<CEL>40<CEL>10
<FOO FN="18.1">* Direct Impact
<FOO FN="18.2">** Reverse Impact/FOO>
<FOO FN="18.3">*** Inch-Pounds
</TAB>
```

Note: The footnote text has been captured within the table tag. This will indicate to a formatter that this footnote is associated with the table and should be presented immediately following the table rather than at the foot of the page.



Ref.: Standards – ST.32 page: 3.32.41

#### **CHEMICAL FORMULAE**

TABLE OF TAGS AND ATTRIBUTES								
TAG	NAME	DESCRIPTION						
<che></che>	CHEmical formula	Indicates the beginning of a quasilinear formula. An end tag is required.						
<chr></chr>	CHemical Reaction	Indicates the beginning of a chemical reaction formula. An end tag is required.						
<crf></crf>	Chemical ReFerence	Indicates the beginning of a reference to a chemical formula. Attribute required. No end tag is necessary, it is self-contained.						
ATTRIBUTE	NAME	DESCRIPTION						
ID	IDentifier attribute	A unique name.						
NUM	NUMber	Used to specify an explicit formula number.						
REFID	REFerence number IDentification	An id reference value giving a unique name.						

#### SGML TAGS: DESCRIPTION AND USAGE

Note: Tagging is confined to relatively simple formulae. No attempt has been made to develop coding for so-called "ring-structures" or Markush structures.

#### 48. <CHE>: CHEmical formula

This indicates the beginning of a quasi-linear chemical formula. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

ID= A unique name, which must start with a letter, eg. idxyz

NUM= Used to specify an explicit formula number.

DTD Syntax:

Example:

 $2 FeCl_2.FeCl_3.xH_2O \\ < \texttt{CHE} > 2 FeCl < \texttt{SB} > 2 < /\texttt{SB} > .FeCl < \texttt{SB} > 3 < /\texttt{SB} > .xH < \texttt{SB} > 2 < /\texttt{SB} > 0$ 

</CHE>

# 49. <CHR>: CHemical Reaction

This indicates the beginning of a chemical reaction formula. An end tag is required. When descriptive text must appear above and/or below an arrow the <CHF> construct is used.

Required Attribute(s):

None

Optional Attribute(s):

ID= A unique name, which must start with a letter, eg. idxyz

NUM= Used to specify an explicit formula number.



Ref.: Standards – ST.32 page: 3.32.42

# DTD Syntax:

```
<!ELEMENT chr - - (%ptext;)* -- Chemical reaction --:
<!ATTLIST chr id ID #IMPLIED -- chem reaction id --
num CDATA #IMPLIED -- specific number --:</pre>
```

### Examples:

#### 50. <CRF>: Chemical ReFerence

This indicates from which point(s) a chemical representation is referenced. The tag is self-contained and therefore there is no end tag. Although a reference might be a text string requiring no markup, markup is recommended for purposes of searching.

# Required Attribute(s):

REFID= A unique name, which must start with a letter, eg. refid=xyz

# Optional Attribute(s):

None

# DTD Syntax:

```
<!ELEMENT crf - o EMPTY -- Reference to che. formula --> <!ATTLIST crf refid IDREF #REQUIRED -- Unique reference -->
```



Ref.: Standards – ST.32 page: 3.32.43

# MATHEMATICAL FORMULAE

TABLE OF SGML TAGS AND ATTRIBUTES						
TAG	NAME	DESCRIPTION				
<above></above>	ABOVE	Indicates a formula value to be displayed above another formula value.  No end tag is necessary.				
<box></box>	BOXes	Indicates parts of a formula to be placed in a box. An end tag is required.				
<break></break>	BREAK	This indicates a line break in the formula. The tag is self contained, ie. it has no content.				
<col/>	COLumn(s)	This indicates a column in a matrix. An end tag is required.				
<df></df>	Display Formula	This indicates the beginning of displayed mathematical formula(e). An end tag is required.				
<dfg></dfg>	Display Formula Group	This indicates a group of display mathematical formula(e) that are to be processed together. An end tag is required.				
<dfref></dfref>	Display Formula REFerence	Indicates a reference to a formula. Attribute required. No end tag is necessary.				
<f></f>	inline Formula	Indicates an inline formula. An end tag is required.				
<fence></fence>	FENCEs	Indicates a fence or bracket. An end tag is required.				
<frac></frac>	FRACtions	This indicates fractions. An end tag is required.				
<from></from>	FROM	Identifies the lower limit for the <integral>, <plex>, <product> and <sum> tags. No end tag is required.</sum></product></plex></integral>				
<integral></integral>	INTEGRAL	This indicates information to be displayed as an integral, using the general limits form of presentation. An end tag is required.				
<italic></italic>	ITALIC	This indicates parts of a formula to be set in italic. An end tag is required.				
<mark></mark>	MARK	This indicates a mark for vertical alignment within a formula. Attribute required. It is self-contained and therefore no end tag is necessary.				
<markref></markref>	MARK REFerence	This indicates a reference to a defined mark and causing the system to vertically align the formula on that mark. Attribute required. No end tag is necessary.				
<matrix></matrix>	MATRIX	This indicates a matrix formula. An end tag is required.				
<middle></middle>	MIDDLE (post)	This indicates a single separator mark called a post in a formula. An end tag is necessary.				
<of></of>	OF	Identifies the operand for the <integral>, <plex>, <product> and <sum> tags. No end tag is required.</sum></product></plex></integral>				
<operator></operator>	OPERATOR	Identifies an operator in a <plex> construction. Its use is optional.</plex>				
<0V>	OVer	This indicates parts of a formula over which special characters or diacriticals are to be placed. An end tag is required.				
<over></over>	OVER	This indicates a fraction denominator. No end tag is necessary.				
<pile></pile>	PILE	This indicates segments of a formula that are to be placed one above the other. An end tag is required.				
<plex></plex>	PLEX	Identifies a general limits operator. Must be followed immediately by the operator. An end tag is required.				
<power></power>	POWER	This indicates an exponential formula. An end tag is required.				
<product></product>	PRODUCT	This indicates a formula that presents the product of formula values using the general limits form of presentation. An end tag is required.				
<roman></roman>	ROMAN	This indicates parts of a formula to be set in roman. An end tag is required.				
<root></root>	ROOT	This indicates data to be displayed as a root. An end tag is required.				
<sqrt></sqrt>	SQuare RooT	This indicates a square root. An end tag is required.				



Ref.: Standards – ST.32 page: 3.32.44

TABLE OF SGI	TABLE OF SGML TAGS AND ATTRIBUTES							
<square></square>	SQUARE	This indicates data to be displayed as a square. An end tag is required.						
<sub></sub>	SUBscript	This indicates a mathematical inferior placed as a subscript. An end tag is required.						
<sum></sum>	SUMmation	This indicates a formula to be displayed as a summation, using the general limits form of presentation. An end tag is required.						
<sup></sup>	SUPerscript	This indicates a mathematical superior placed as a superscript. An end tag is required.						
<tensor></tensor>	TENSORs	This indicates a tensor. Attribute required. An end tag is required.						

TABLE OF SGM	L TAGS AND ATTRIBU	TES
<to></to>	ТО	Identifies the upper limit for the <integral>, <plex>, <product> and <sum> tags. No end tag is required.</sum></product></plex></integral>
<vec></vec>	VECtor	This indicates a vector. An end tag is required.
ATTRIBUTE	NAME	DESCRIPTION
ALIGN	ALIGNment	Used to specify alignment of data.
CLOSE	CLOSE	Use to specify a character in fence constructs.
ID	IDentifier attribute.	Used to specify various formula identity attributes.
NUM	NUMber	Used to specify an explicit formula number.
OPEN	OPEN	Used to specify a character in fence constructs.
PAGE	PAGE	Used to specify page number may be system generated for references.
POS	POSition	Position of inferiors and superiors.
POSF	POSition of the First suffix	Used to specify the position of the first suffix attribute of tensors.
REFID	REFerence IDentification	Used to identify various formula references.
SPC	SPaCing	Spacing of elements
STYLE	STYLE	Used to define the style of a character, for example, double fence.
SUFFIX	SUFFIX	Used to identify suffixes of tensors.
TYPE	TYPE	Used to define the type of character used, for example, brace fence.

# SGML TAGS: DESCRIPTION AND USAGE

These tags are taken from: ISO *Technical Report ISO/IEC/TR 9573:1988(E) - Information processing - SGML support facilities - Techniques for using SGML*. In particular, section 8 - Mathematics. The layout and some examples are different. Due acknowledgement is given to the ISO document.

# FORMULA AND FORMULA REFERENCE

### 51. <F>: inline Formula

This indicates an inline mathematical formula. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None



Ref.: Standards – ST.32 page: 3.32.45

#### DTD Syntax:

```
<!ELEMENT f -- (%formel;)+ -(br|matrix|pile|frac|mark|markref) -- In-line formula -->
```

#### Example:

... the basic assumption is that 2 x 2 = 4 and therefore ... the basic assumption is that <F>2 x 2 = 4</F> and therefore ...

Note: In simple cases such as this the use of SGML tags is not mandatory since the formula can be keyed, printed, etc., as part of the text stream. Nevertheless, markup is recommended for purposes of searching.

In addition it is recommended that  $\langle F \rangle$  be used sparingly since if multi-level formulae are tagged as such later processing (display, printing) may be difficult or create awkward line spacing in the application. For these reasons the DTD has been modified to allow only certain constructs within the  $\langle F \rangle$  tag.

#### 52. <DF>: Display Formula

This indicates the beginning of displayed (set off from the text) mathematical formula(e). An end tag is required.

#### Required Attribute(s):

None

#### Optional Attribute(s):

ALIGN= The alignment attribute takes one of the values left, right, centre. Left is the default value.

ID= A unique name, which must start with a letter, eg. id=xyz.

NUM= Used to specify an explicit formula number. If omitted, sequential numbering of the formulae

would normally be performed by the text formatter.

#### DTD Syntax:

### Example:

```
\begin{split} n^2 = G.d/D^2 = G_2.t/(D.p^2) & \text{(1)} & \text{<DF NUM=(1)>} n < \text{SUP>} 2 < / \text{SUP>} = G.d/D < \text{SUP>} \\ 2 < / \text{SUP>} = G < \text{SUB>} 2 < / \text{SUB>} 1 t/(D.p < \text{SUP>} 2 \\ < / \text{SUP>} > (DF>) < DF> \end{split}
```

### 53. <DFG>: Display Formula Group

This indicates a group of displayed (set off from the text) mathematical formula(e) that are to be processed together. An end tag is required.

### Required Attribute(s):

None

# Optional Attribute(s):

ALIGN= The alignment attribute takes one of the values left, right, centre. Left is the default value.

ID= A unique name, which must start with a letter, eg. idxyz.

NUM= Used to specify an explicit formula number for the group.



Ref.: Standards – ST.32 page: 3.32.46

## DTD Syntax:

#### Examples:

NUM= Used to specify an explicit formula number for the group.

#### DTD Syntax:

#### Examples:

$n^2 = G.d/D^2 = G_2.t/(D.p^2)$ $x^2 = H.d/D^2 = G_2.t/(E.p^2)$ $y^2 = J.d/D^2 = G_2.t/(F.p^2)$	$\label{eq:continuity} $$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
$n^2 = G. d/D^2 = G_2. t/(D.p^2)$ (1a) $x^2 = H. d/D^2 = G_2. t/(E.p^2)$ (1b) $y^2 = J. d/D^2 = G_2. t/(F.p^2)$ (1c)	$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$

### 54. <DFREF>: mathematical Formula REFerence

This indicates a formula reference, or formula group reference, within text phrases. It refers to an identified formula (see <DF> and <DFG> above). The tag is self-contained and therefore there is no end tag.

# Required Attribute(s):

REFID= A unique name, which must start with a letter, eg. id=xyz.

#### Optional Attribute(s):

PAGE= The page number attribute can take the values yes and no, in the first case, which is the default, the appropriate page number, supplied by the system, is added to the reference.

# DTD Syntax:

# Example:

$$n^2 = G. d/D^2 = G_2. t/(D.p^2) \qquad \text{[12]} \qquad \begin{array}{l} \text{CDF ID="Math12" NUM=[12]>n2 = G.d/} \\ D2 = G2.t/(D.p) \\ 2)
An example is shown on page 15 .... 
An example is shown on page 15 .... 
Note: on processing the page number of the reference$$

may be generated.



Ref.: Standards – ST.32 page: 3.32.47

#### **FORMULA CONTENT**

#### 55. **<MARK>: MARK**

This indicates a position for vertical alignment within a formula. In many cases, for example when aligning multiple formulae on equal signs, marking and referring to a horizontal position is required. The mark tag is used to define a mark. It is self-contained and therefore no end tag is necessary.

#### Required Attribute(s):

ID= The required identifier attribute is used when referring to a mark and must be unique.

#### Optional Attribute(s):

None

#### DTD Syntax:

```
<!ELEMENT mark - o EMPTY -- Mark for alignment -->
<!ATTLIST mark id ID #REQUIRED -- Reference id for the mark -->
```

# Examples:

See <MARKREF> below

#### 56. <MARKREF>: MARK REFerence

This indicates a reference to a defined mark and causes the system to vertically align the formula horizontally on that mark. The appropriate value for the reference identifier attribute (refid=) must be provided. The tag is self-contained, ie. it has no content, therefore, no end tag is necessary.

### Required Attribute(s):

REFID= The identifier for the mark to which reference is made.

### Optional Attribute(s):

None

#### DTD Syntax:

```
<!ELEMENT markref - o EMPTY -- Reference to a mark -->
<!ATTLIST markref refid IDREF #REQUIRED -- Id of the mark referred to -->
```

#### Example:

### 57. <BREAK>: BREAK

This indicates that a line break occurred at this point in a formula. The type attribute (type=) with values optional or required indicates if the break point is to be considered an optional breakpoint, and thus similar to hyphenating words, or a mandatory break. The latter is the default. Since the tag has no content an end tag is not required.

#### Required Attribute(s):

None

#### Optional Attribute(s):

TYPE= The type of break - required or optional. Required is the default.



Ref.: Standards – ST.32 page: 3.32.48

## DTD Syntax:

```
<!ELEMENT break - o EMPTY -- break point in formul --
<!ATTRIBUTE break type (required|optional) "required" -- type of break --:</pre>
```

#### 58. <BOX>: BOXes

This indicates parts of a formula to be placed in a box. An end tag is required.

#### Required Attribute(s):

None

#### Optional Attribute(s):

STYLE= Style attribute - see <OV> below, default is a single line.

#### DTD Syntax:

```
<!ELEMENT box - - (%formel;)+ -- Box around a formula -->
<!ATTLIST box style (%style;) "single" -- Box line styles -->
```

#### Example:

**a + b** <BOX>**a + b**</BOX>

#### 59. <ov>: 'OVer' embellishments

This identifies parts of a formula where special accents or diacritical marks may be placed: over, mid or below data. In general text use <0> or <0>. An end tag is required.

# Required Attribute(s):

None

# Optional Attribute(s):

POS= The position attribute defines the position of the mark and takes one of the values: above, below

or mid. The default value is above.

STYLE= The style attribute defines the style of the mark. It takes one of the values: single, double, triple,

dash, dots, or bold. The default value is single.

TYPE= The type attribute defines the type of the mark to be used. It takes one of the values: dot, dotdot,

dot3, dot4, tie, tiebrace, hat, hacek, acute, grave, cedil, ring, macron, ogonek, dblac, breve, tilde,

vec, rvec, dyad, circle, caret, prime, dprime, plus, bar, none. The default value is bar.

Note: Not all combinations of type and style attribute values would normally be used, eg type=tilde, style=dots.

# DTD Syntax:

### Example:

 $\overline{x + y} \qquad \qquad < OV > x + y < /OV >$ 



Ref.: Standards – ST.32 page: 3.32.49

#### 60. <TENSOR>:TENSORs

This indicates a tensor in a formula. An end tag is required.

Required Attribute(s):

SUFFIX= The suffix attribute takes the suffixes of the tensor; a space indicating a switch from superscript

to subscript or subscript to superscript.

Optional Attribute(s):

POSF= The value of the position of the first suffix attribute takes the value sup or sub, sup being the

default.

DTD Syntax:

Example:

61. <ITALIC>: ITALIC <ROMAN>: ROMAN

These indicate parts of a formula to be set in italic or roman, contrary to common practice and not being a function name. End tags are required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT italic -- (%formel;)+-(italic) -- Italic --> <!ELEMENT roman -- (%formel;)+-(roman) -- Roman -->
```

Example:

```
x + y = a^2  \langle F \rangle x + y = \langle ITALIC \rangle a \langle SUP \rangle 2 \langle /SUP \rangle \langle /ITALIC \rangle \langle /F \rangle
```

# 62. <FRAC>: FRACtions

This indicates fractions. The alignment of numerator and denominator is centered by default. Note that the ISO numerator tag <numer> can be omitted since the element is required. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

ALIGN= Indicates the alignment of the numerator and/or denominator, which may be centre, left, right -

centre is the default.



Ref.: Standards – ST.32 page: 3.32.50

DTD Syntax:

<!ELEMENT frac - - ((%formel;)+, over) -- Fraction numerator -<!ATTLIST frac align (%align;) "centre" -- Fraction alignment --</pre>

Example: (See below)

63. <OVER>: OVER (fraction denominator)

This identifies a fraction denominator. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT over - o ((%formel;)+) -- Fraction denominator -->

Examples:

2x 3xy <df><frac>2x<over>3xy</frac></df>

64. <SUP>: SUPerscript

This indicates a mathematical superior placed as a superscript. Several levels are allowed. An end tag is required.

Note: In cases where the optional attribute, POS=, is NOT used, the position of superscript, whether following or preceding the base character, can be determined by where the <SUP> is placed in the text (see examples below).

Required Attribute(s):

None

Optional Attribute(s):

POS= The position attribute takes one of the values <code>pre, mid, or post</code>. The default is <code>post</code>.

DTD Syntax:

<!ELEMENT sup - - (%formel;)+ -- Superscript -->
<!ATTLIST (sup|sub) pos (PRE|MID|POST) "POST" -- Position (default post) -->



Ref.: Standards – ST.32 page: 3.32.51

Examples:

 $e^{x}$  e<SUP>x</SUP>

 $^{x-y}N$  < SUP>x-y</SUP>N or N<SUP POS=PRE>x-y</SUP>

See further examples below.

#### 65. <SUB>: SUBscript

This indicates a mathematical inferior placed as a subscript. Several levels are allowed. An end tag is required. See notes at <SUP> above.

Required Attribute(s):

None

Optional Attribute(s):

POS= The position attribute takes one of the values pre, mid, or post. The default is post.

DTD Syntax:

```
<!ELEMENT sub -- (%formel;)+ -- Subscript -->
<!ATTLIST (sup|sub) pos (PRE|MID|POST) "POST" -- Position (default post) -->
```

### Examples:

**72** T<sup>1</sup><sub>2</sub>

E<SUP>x<SUP>2</SUP></SUP>

E<SUP>a<SUP>1</SUP><SUB>2</SUB></SUP>

Using the hairspace character entity reference it is possible to indicate a staggered arrangement:

arrangement

1 3 <DF>T<SUB>1</SUB>&hairsp;<SUP>2</SUP>&hairsp;<SUB>3</SUB></DF>

#### 66. <PILE>: PILES

This indicates segments of a formula that are to be placed one above the other. The <PILE> tag is immediately followed by an implied "above1" element, specification of which is not required, (ISO: "where both the start and end tags can and should be omitted). This is followed by one or more above elements, where the start tag is required. Alignment is to centre by default. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

ALIGN= Indicates the alignment of values which are centered by default.

SPC= Indicates the spacing between elements, close or normal. Normal is the default.



Ref.: Standards – ST.32 page: 3.32.52

#### 67. <ABOVE>: ABOVE

This indicates a formula value to be displayed above another formula value. An <ABOVE> tag can be used as many times as necessary to achieve the required stacking of formula values. An above can occur within columns, in a matrix (see below), and piles. No end tag is necessary.

Required Attribute(s):

None

Optional Attribute(s):

None

#### DTD Syntax:

#### Example:

a b c

<PILE>a<ABOVE>b<ABOVE>c</PILE>

#### 68. <FENCE>: FENCEs

This indicates fences (brackets), which may be of variable size. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

TYPE=

Type of fence, for opening and closing constructs, which may be one of the following:

```
( paren (Default)
[ bracket
{ brace
| bar
< angbrack
/ solidus
none</pre>
```

STYLE= Style of the fence. It takes one of the values: single, double, triple, dash, dots or bold. The

default value is single.

CLOSE=character Specifies a character that is to be displayed as a closing fence on the right end of the data. Any

value for the type attribute is ignored.

OPEN=character Specifies a character that is to be displayed as an opening fence on the left end of the data. Any

value for the type attribute is ignored.

#### DTD Syntax:



Ref.: Standards – ST.32 page: 3.32.53

## Examples:

#### 69. <MIDDLE >: MIDDLE (post)

This indicates a single separator mark called a "post" in a formula. The <MIDDLE> tag is used with the fence tag to separate values within a fence. An end tag is necessary.

Required Attribute(s):

None

#### Optional Attribute(s):

STYLE= Style of the post. See above for style attributes. The default is a single post.

#### DTD Syntax:

```
<!ELEMENT middle - - (#PCDATA) -- Middle of a space --> <!ATTLIST middle style (%style;) "single" -- Line styles -->
```

### Example:

(### Cover | C

# **PLEXES**

# 70. <PLEX>: PLEX and <OPERATOR>: OPERATOR

This indicates a formula to be presented in the style of a general limit operator. A plex must contain an operator as the first element. Specification of the operator tag <OPERATOR> is optional. The operator can be followed by from-operators (<FROM> tags) and to-operators (<TO> tags), as well as an of-operand (<OF> tag). See examples below. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

# DTD Syntax:

```
<!ELEMENT plex -- (operator, (from?&to?)?,of?) -- Generalized operator
<!ELEMENT operator o o (#PCDATA) -- Operator symbol --:</pre>
```

See below for examples.

Note: The sum, integral, and product elements are special cases of the general plex, the operator being implied by these tags, for which see below.



Ref.: Standards - ST.32 page: 3.32.54

#### 71. <SUM>: SUMmation

This indicates a formula to be displayed as a summation, using the limit form of presentation. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT sum - - ((from?&to?)?,of?)

-- Summation

#### 72. <INTEGRAL>: INTEGRAL

This indicates information to be displayed as an integral, using the limit form of presentation. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT integral - - ((from?&to?)?,of?) -- Integral
```

-->

-->

#### 73. <PRODUCT>: PRODUCT

This indicates a formula that presents the product of formula values using the limit form of presentation. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT product - - ((from?&to?)?,of?) -- Product
```

#### <FROM>: Operator for "limits" 74.

This identifies the lower limit for the <INTEGRAL>, <PLEX>, <PRODUCT> and <SUM> tags. No end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

```
<!ELEMENT from - o (%formel;)+
                                           -- Start index for operator
```



Ref.: Standards – ST.32 page: 3.32.55

# 75. <OF>: Operator for "limits"

This identifies the operand for the <INTEGRAL>, <PLEX>, <PRODUCT> and <SUM> tags. No end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT of - o (%formel;)+ -- Fo

-- Formula operated upon

-->

#### 76. <TO>: Operator for "limits"

Identifies the upper limit for the <INTEGRAL>, <PLEX>, <PRODUCT> and <SUM> tags. No end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT to - o (%formel;)+ -- End index for operator -->

Examples:

 $\sum_{i=1}^{10} a_i \qquad <sum><from>i=1<to>10<of>a<sub>i</sub></sum>$ 

### 77. <SQRT>: SQuare RooT

This indicates a square root. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT sqrt -- (%formel;)+ -- Square root -->

Example:

<SQRT>a+b</sQRT>



Ref.: Standards – ST.32 page: 3.32.56

# 78. <SQUARE>: SQUARE

This indicates data to be displayed as a square. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT square - - (%formel;)+ -- Square -->

Example:

 $(a + b)^2$  < SQUARE>a+b</SQUARE>

#### 79. <ROOT>: ROOT

This indicates data to be displayed as a root. A root must contain a degree and an of-operand (<OF> tag, see above). The degree of the root may be tagged <DEGREE> but it is recommended NOT to do so in patent documents. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT root - - ((%formel;)+,of) -- Root: degree/of -->

Example:

 $\sqrt{a+b}$  < ROOT>4<OF>a+b</ROOT> < ROOT>a+b<OF>x+y</ROOT>

#### 80. <POWER>: POWER

This indicates an exponential formula. A power must contain a degree and an of-operand (<OF> tag, see above). The degree element must occur before the of-operand. The degree of the power may be tagged <DEGREE> but it is recommended NOT to do so in patent documents. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT power - - ((%formel;)+,of) -- Power: degree/of -->

Example:



Ref.: Standards – ST.32 page: 3.32.57

#### 81. <VEC>: VECtors

This indicates a vector in a formula. By convention these are set in bold roman or medium italic with an arrow above. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

DTD Syntax:

<!ELEMENT vec -- (%formel;)+ -- Designates vector name -->

Example:

→ V <VEC>V</VEC>

#### 82. <MATRIX>: MATRICES

This indicates a matrix formula. A matrix is different from a pile because the information is organised into rows as well as columns. The <MATRIX> tag is immediately followed by a column tag <COL> (see below). An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

None

# 83. <COL>: COLumn(s) in a matrix

This indicates a column in a matrix. The <code><COL></code> tag is immediately followed by an implied above1 element, specification of which is not required. This is followed by one or more above elements, where the start tag <code><ABOVE></code> is required. Alignment is to center by default. An end tag is required.

Required Attribute(s):

None

Optional Attribute(s):

ALIGN= Indicates the alignment of the values within the column. Centre is the default.

#### DTD Syntax:

#### Example:

<MATRIX>



Ref.: Standards – ST.32 page: 3.32.58

# **CITATIONS, NAMES AND ADDRESSES**

- 84. These tags may occur within any patent sub-documents, except drawings. In bibliographic data, <SDOBI>, they can occur within tags <B400>, <B560>, <B600>, <B700>, <B861>, <B871> and <B891>. In abstracts <SDOAB>, description <SDODE> and claims <SDOCL> they occur mainly as bibliographic citations within paragraphs. In Search Reports, <SDOSR>, they are combined with bibliographic tags to give citations to data searched. Examples are given for each type of data in Annex D.
- 85. The tags below are based on two sources:
  - 1) European Workgroup on SGML. *MAJOUR: modular application for Journals*. European Workgroup on SGML (EWS), 1991.
  - Association of American Publishers. Electronic Manuscript Series: Author's guide to electronic manuscript preparation and markup; Reference manual on electronic manuscript preparation and markup. Dublin, Ohio: Electronic Publishing Special Interest Group (EPSIG), 1989.

Due acknowledgement is given to these sources.

TABLE OF S	SGML TAGS			
Parameter e	entities and tags		Content	Description
CIT			#PCDATA %PCIT; NCIT; REL	Citation start tag
%PCIT;				Patent Document Citations
	%EXTDOC;		see below	Cited Document
	%NAM;		see below	Citation Applicant or Patentee
	PIC		#PCDATA	IPC of Citation
	PNC		#PCDATA	National Classification of Citation
%NCIT;				Non-Patent Document Citations
ARTCIT				Article information, citation
	%AUTHGRP;		see below	Author Group
	ATL		#PCDATA	Article Title
	SBT		#PCDATA	Article Subtitle
	JNL			Journal Reference
		JTL	#PCDATA	Journal Title
		SBT	#PCDATA	Subtitle
		JABT	#PCDATA	Journal Abbreviated Title
		PNM	%PARTY;	Publisher's Name and Address
		DATE	see below	Publication Date
		VID	#PCDATA	Volume Identification
		INO	#PCDATA	Journal Issue Number
		ANO	#PCDATA	Abstract Number
	PP			Page Numbers
		PPF	#PCDATA	First Page Number
		PPL	#PCDATA	Last Page Number
	ISSN		#PCDATA	International Standard Serial Number
	CDN		#PCDATA	International Coden



Ref.: Standards – ST.32 page: 3.32.59

Parameter en	ntities and tags		Content	Description
	CNG			Conference Proceedings
		CNN	#PCDATA	Conference Number
		CNM	#PCDATA	Conference Name
		DATE	see below	Conference Date
		CNP	#PCDATA	Conference Place
		CNS	#PCDATA	Conference Sponsor
	BOOKID		see below	Article in Book - Book Identification Group
BOOKCIT				Book Information, citation
	%AUTHGRP;		see below	Author Group
	BOOKID		see below	Book Identification Group
	PART		#PCDATA	Part
	SECT		#PCDATA	Section, chapter
	PP			Page Numbers
		PPF	#PCDATA	First Page Number
		PPL		Last Page Number
DBASECIT				Database Information Group, citation
	DBN		#PCDATA	Name of Database
	PNM		%PARTY;	Database Publisher or Service Name and Address
	DBS		#PCDATA	Section of Database
	SRT		#PCDATA	Search Terms
	DATE		see below	Publication Date
OTHCIT			#PCDATA	Other reference (paragraph form)
REL			#PCDATA	Relevant passage
%AUTHGRP;			•	Author Group
	AUTHOR		%PARTY;	Author's Name
	COAUTH		%PARTY;	Co-author's Name
	COLLAB		%PARTY;	Collaborator
BOOKID				Book Identification
	TI		#PCDATA	Title
	SBT		#PCDATA	Subtitle
	EDN		%PARTY;	Editor's Name
	MSN		#PCDATA	Monographic Series Number
	MST		#PCDATA	Monographic Series Title
	ISBN		#PCDATA	International Standard Book Number
	CDN		#PCDATA	International Coden
	ANO		#PCDATA	Abstract Number
	PNM		%PARTY;	Publisher's Name/Address
	VID		#PCDATA	Volume Identification
	NO		#PCDATA	Book Number
	ED		#PCDATA	Edition Statement
	DATE		see below	Publication Date



Ref.: Standards – ST.32 page: 3.32.60

Parameter e	entities and tags		Content	Description	
%DOC; %E	XTDOC;		-	Document Identification	
	DNUM		#PCDATA	Document Number	
		ANUM	#PCDATA	Application Number	
		PNUM	#PCDATA	Publication Number	
	DATE		see below	Document Date	
	CTRY		see below	Publishing Country or Organization (ST.3)	
	KIND		#PCDATA	Document Kind (ST.16)	
	BNUM		#PCDATA	Bulletin Number	
	DTXT		#PCDATA	Descriptive Text	
PARENT	<b>,</b>	1		Describes parent document	
	DNUM		see above	Document number	
	CDOC		%DOC;	Child Document	
	PDOC		%DOC;	Parent Document	
	PSTA		#PCDATA	Parent Application Status	
	PPUB		%DOC;	Patent Associated with Parent Document	
%PARTY;	<u>-</u>	-	<u> </u>	Individual or Organization Data	
	%NAM;		see below	Individual or organization name	
	ADR		see below	Individual or organization address	
	DTXT		#PCDATA	Descriptive Text	
	RCTRY		CTRY	Country of Residence (ST.3)	
	NCTRY		CTRY	Country of Nationality (ST.3)	
%NAM;				General Name	
	TTL		#PCDATA	Title (e.g., Mr. ,Mrs. ,Ms. ,Dr. , CPT, etc.)	
	FNM		#PCDATA	Given and Middle Name(s) and/or Initials	
	SNM		#PCDATA	Family name , last, surname or, if unable to distinguish: whole personal or organisation name	
	SFX		#PCDATA	Suffix (e.g., II, Jr., Sr., Esq., et al.)	
	IID		#PCDATA	Individual ID Number ( e.g., US Social Security)	
	IRF		#PCDATA	Individual Reference Number (filing, etc.)	
	SYN		#PCDATA	Synonym, cross reference	
	ONM		#PCDATA	Organization name	
	OID		#PCDATA	Identifying Number of Organization	
	ODV		#PCDATA	Division of Organization	
	DID		#PCDATA	Identifying Number of Division	
ADR				Address	
	%NAM;		%NAM;	Name, Organization, if part of address	
	OMC		#PCDATA	Organization Mail Code	
	PBOX		#PCDATA	Post Office Box Number	
	STR		#PCDATA	Street, house number or name, district (of city), apt. number, etc.	
	CITY		#PCDATA	City or Town	
	CNTY		#PCDATA	County, Parish, Department, etc.	



Ref.: Standards – ST.32 page: 3.32.61

Parameter	entities and tags	Content	Description		
	STATE	#PCDATA	Region of Country (State, Province, etc.)		
	CTRY	#PCDATA	Country		
	PCODE	#PCDATA	Postal Code		
	EAD	#PCDATA	Electronic Address (e.g., e-mail)		
	TEL	#PCDATA	Telephone number, including area or regional code		
	FAX	#PCDATA	Facsimile Telephone Number		
DATE		<u>'</u>	Date		
	DATE	#PCDATA	YYYYMMDD		
	TIME	#PCDATA	HHMMSS (UCT)		

For the DTD syntax see Annex B.



Ref.: Standards – ST.32 page: 3.32.62

#### PART 2: SGML MARKUP FOR PATENT BIBLIOGRAPHIC DATA

- 86. This part of the Recommendation provides SGML tags for all bibliographic fields identified in WIPO Standards ST.9 and ST.30. In doing so some inconsistencies and omissions in WIPO Standards ST.9 and ST.30 had to be resolved.
- 87. INID codes will be used, where available, as the basis of the generic identifiers for the SGML markup start tags. To conform to SGML rules, which do not allow pure numerics as generic identifiers, numeric tags will be preceded by a "B"
- 88. An attempt has been made to identify all common data elements which may be present in bibliographic data relating to patent documents typically all data appearing on the title page of patents and/or data required for electronic data exchange. It is realised that this is a difficult task. In order to meet any particular requirement of a patent office not contained in the tags below two courses of action are proposed:
  - 88.1. In the tags beginning <B000> to <B099> these tags are reserved for Office specific tags which do not fit logically into any other numerical area. In addition, if used, these tags should end with the two letter <a href="ST.3">ST.3</a> code of the country or organisation using the tag, eg. <B050EP>. The DTD should be changed to add any new tags, any receiving office notified that these tags have been added to and, ideally, WIPO should be notified in order that future revisions may include the proposed tag(s). The DTD indicates that this data is optional.
  - 88.2. In the tags beginning <B100> to <B999>, defined below, it is possible to indicate Office specific tags which fit logically into an existing numerical range. However, if used, these additional tags should end with the two letter <a href="ST.3">ST.3</a> code of the country or organisation using the tag, eg. <B578US>. The DTD should be changed to add any new tags, any receiving office notified that these tags have been added and, ideally, WIPO should be notified in order that future revisions may include the proposed tag(s). The list of tags below contains examples of EPO, JPO and USPTO tags which fall into this category. These are included as examples only and need not form part of the DTD.
- 89. An example of the markup of bibliographic data can be found in Annex D.



Ref.: Standards – ST.32 page: 3.32.63

# PATENT BIBLIOGRAPHIC DATA

TABL	E OF SGML TAGS F	OR BIBLIOG	RAPHIC DA	TA	
INID	Bibliographic tag B000		Content		Description
			<del></del>		Office Specific System/File Information
	EPTAGS				EPO-specific tags
		B001EP	#PCDATA		Selective mask for states involved
		B002EP	#PCDATA		Reserved
		B003EP	#PCDATA	1	Indicator 'no A-doc pub. by EPO'
		B004EP	#PCDATA	1	Re-establishments of rights indicator
		B005EP	#PCDATA		Printer identification
		B006EP	#PCDATA	ı	Indicator for international applications
		B010EP	#PCDATA		Other rights and legal means of execution
		B011EP	(date, dnu	m, ctry)	Serial number, date and states
		B020EP	CDATA		Data concerning bibliographic record creation
		B021EP	CDATA		Data concerning bibliographic record correction(s)
		B030EP	CDATA		Legal status data
		B050EP			Free text data
-			B051EP	#PCDATA	Language
			B052EP	#PCDATA	Text
		B053EP	#PCDATA	<u> </u>	Remarks
		B060EP	CDATA		Receipt of documents data, check data for electroni filing
		B061EP	CDATA		Data relating to fees, financial information
		B070EP	#PCDATA	ı	B Publication technical field
		B078EP	#PCDATA	ı	No opposition filed
	USTAGS				Placeholder for USPTO-specific tags
	JPTAGS				Placeholder for JPO-specific tags
	xxTAGS				Placeholder for other patent offices
10	B100		<b>,</b>		Document Identification
11	B110		#PCDATA		Number of the patent document, usually the publication number.
12	B120				Plain language designation
		B121	#PCDATA	1	Plain language designation of the kind of document eg. European Patent Application
		B121EP	#PCDATA		Descriptive text for B121 (EPO)
13	B130		#PCDATA		Kind of document according to WIPO ST.16
	B131EP		#PCDATA	1	Extended kind of document code (EPO)
	B140		DATE		Document date, usually date of publication
19	B190		#PCDATA	1	Publishing country or organization (ST.3)
	B195		#PCDATA	<u> </u>	Source furnishing record



Ref.: Standards – ST.32 page: 3.32.64

INID	Bibliographic tag		Content	Description
20	B200		<del>,</del>	Domestic Filing Data
21	B210		#PCDATA	Number assigned to the application
	B210EP		#PCDATA	Application number in unstandardised form (EPO)
22	B220		DATE	Application filing date
	B225		DNUM DATE, %PARTY;	Receiving Office data eg. date of receipt of application, office address
23	B230			Other dates
		B231	DATE	Exhibition filing date
		B232	DATE	Complete specification filing date
		B233	DATE	Receipt date at national office
		B234	DATE	Receipt date at international office
		B235	DATE	Date of refusal of application
		B236	DATE	Date of withdrawal
		B237	DATE	Date application deemed withdrawn
		B238EP	DATE	Date of receipt of request for re-establishment of rights
		B238	DATE	Date of application rights re-established
		B239	DATE	Date of revocation
24	B240			Date from which industrial property rights may have effect
		B241	DATE	Date of request for examination
		B242	DATE	Date of despatch of 1st examination report
		B243	DATE	Date of patent maintained as amended
		B244	(date, cntry+)	Request for conversion to national application
		B245	DATE	Date of suspension/interruption of proceedings
		B245EP	#PCDATA	Suspension/interruption indicator (EPO)
		B246	DATE	Date of resumption of proceedings
		B248	DATE	Date of notification rights after appeal
25	B250		#PCDATA	Language of original filing (ISO 639)
	B250EP		#PCDATA	Admissable non-EPO language (EPO)
	B251EP		#PCDATA	Procedural language (EPO)
26	B260		#PCDATA	Language of application publication (ISO 639)
30	B300			Priority Data
31	B310		#PCDATA	Priority application number
	B310EP		#PCDATA	Priority application number in unstandardised form (EPO)
32	B320		DATE	Date of filing of priority application
33	B330		CTRY	Allotting country or organization (ST.3)
34	B340		CTRY	Country party to the Paris Convention (ST.3)
	B345		%DOC;	Patent family Information
	B345EP		%DOC;	INPADOC patent family information (EPO)



Ref.: Standards – ST.32 page: 3.32.65

INID	Bibliographic tag		Content	Description
40	B400			Public Availability Dates
	B405		%DOC;	Patent bulletin / gazette information
41	B410		%DOC;	Unexamined, not printed document without grant
42	B420		%DOC;	Examined, not printed document without grant
43	B430		%DOC;	Unexamined printed document without grant
44	B440		%DOC;	Examined printed document without grant
45	B450		%DOC;	Printed document with grant (e.g. US Pat)
	B451EP		DATE	Date of announcement (EPO)
46	B460		%DOC;	Document claim(s) only available
47	B470		%DOC;	Not printed document with grant
	B472			Term of grant
		B473	DATE	Disclaimer date
		B474	#PCDATA	Term of grant
		B475	%DOC;	Lapse of patent
	B476		%DOC;	Invalidation of patent
	B477		%DOC;	Document printed as amended, (eg. EPO B2)
50	B500	<del>!</del>	<del>'</del>	Technical Information
51	B510			International Patent Classification (IPC) data
		B511	#PCDATA	Main classification
		B512	#PCDATA	Further classification
		B513	#PCDATA	Additional information
		B514	#PCDATA	Linked indexing code
		B515	#PCDATA	Unlinked indexing code
		B516	#PCDATA	Edition of IPC
		B517EP	#PCDATA	Non-obligatory supplementary class. (EPO)
52	B520			Domestic or national classification
		B521	#PCDATA	Main classification
		B522	#PCDATA	Further classification
		B523	#PCDATA	Additional information
		B524	#PCDATA	Linked indexing code
		B525	#PCDATA	Unlinked indexing code
		B526	#PCDATA	Edition of classification
		B527	#PCDATA	Country code (ST.3)
		B528US	#PCDATA	Digest reference (USPTO)
53	B530		#PCDATA	Universal Decimal Classification
54	B540			Title of the invention
		B541	#PCDATA	Language of title (ISO 639)
		B542	#PCDATA	Title of invention
55	B550			Keywords or descriptors
		B551	#PCDATA	Language (ISO 639)
		B552	#PCDATA	Keywords or descriptors



Ref.: Standards – ST.32 page: 3.32.66

NID	Bibliographic tag		Content	Description
56	B560			List of prior art documents, if separate from descriptive text, eg. on the title page. Where the search report is a sub-document use <sdosr> plus the tags below)</sdosr>
		B561	#PCDATA,%PCIT; REL	Patent citation (with B563 and B564)
		B561EP	#PCDATA	Number of copies of citations (EPO)
		B562	#PCDATA,%NCIT;	Non-Patent citation (with B563 and B564)
		B563	#PCDATA	Category of cited document (office dependent)
		B564	#PCDATA	Claims to which cited document is relevant
		B565	DATE	Date of completion of search report
		B565EP	DATE	Date of drawing up and despatch of supplementary search report (EPO)
		B566	DATE	Date of mailing of search report
		B566EP	DATE	Date of despatch of correction to search report (EPO)
		B567	%PARTY;	Place of search - international search authority
		B568	%DOC;	Publication of search report
		B569	%NAM;	Search report examiner
57	B570			Abstract or claim, use <sdoab> and <sdocl> where possible</sdocl></sdoab>
		B571	#PCDATA	Language of abstract
		B572	%DOC;	Abstract doc. information, eg. abstract number if different to doc. number
		B575	#PCDATA	Language of claims
		B576	%DOC;	Claims doc. info.
		B577	#PCDATA	Number of claims, eg claims number if different to doc. number
		B578US	#PCDATA	Exemplary claim number (USPTO)
8	B580			Field of search
		B581	#PCDATA	IPC
		B582	#PCDATA	National classification
		B583US	#PCDATA	Field of mechanized search (USPTO)
		B584US	#PCDATA	Other field of search (USPTO)
	B590			Information about specification and drawing, for main data use <sdode> and <sdodr> respectively</sdodr></sdode>
		B591	#PCDATA	Language of specification (ISO 639)
		B592	#PCDATA	Number of text pages
		B595	#PCDATA	Number of drawing sheets
		B596	#PCDATA	Number of figures
		B597	#PCDATA	Number of attached image files
		B598	#PCDATA	Figure number on first (title) page, abstract drawing
		B599EP	#PCDATA	Subsequently filed technical data (EPO)



Ref.: Standards – ST.32 page: 3.32.67

INID	Bibliographic ta	g	Content		Description
60	B600	_			References to other legally or procedurally related domestic patent documents
61	B610		PARENT		Earlier document to which this Is an addition
62	B620		PARENT		Earlier application from which the present document has been divided out
	B620EP		PARENT		Other types of relationship (EPO)
		B621EP	%DOC;		Relation for application numbers (EPO)
		B622EP	%DOC;		Relation for publication numbers (EPO)
63	B630				Continuations
		B631	PARENT		Earlier application of which the present document is a continuation
		B632	PARENT		Document of which this is a continuation-in-part
		B633	PARENT		Document of which this is a continuing reissue
64	B640		PARENT		Document being reissued
	B645		PARENT		Document of which this is a reexamination
65	B650		PARENT		Previously published document concerning same application
	B655		PARENT		Document previously published by another country/organisation
66	B660		PARENT		Document for which this is a substitute
	B665				Patent correction information
		B666	%DOC;		Document being corrected
		B667	#PCDATA	١	Type of correction
		B668	#PCDATA	١	Descriptive text relating to correction
67	B670		PARENT		Document on which utility model is based
70	B700	·	·		Parties Concerned with the Document
71	B710				Applicant information
		B711	%PARTY;		Name and address
			B711EP	%PARTY;	Name and address for correspondence (EPO)
			B713EP	#PCDATA	Applicant authorisation number (Art.133 (3), EPC) (EPO)
			B716EP	CTRY	Designated contracting states for applicant (EPO)
			B717EP	CTRY	Designated extension states for applicant (EPO)
			B718EP	DATE	Effective date for transfer of rights (EPO)
		B712US	empty		Rule 47 Indicator (USPTO)
72	B720				Inventor information
		B721	%PARTY;		Name and address
			B724EP	#PCDATA	Waiver by inventor of information pursuant to Rule 17(3), EPC (EPO)
			B725EP	#PCDATA	The inventor has agreed to waive his entitlement to designation, Rule 18(3), EPC. (EPO)
			B726EP	#PCDATA	Origin of applicant's rights if not inventor: as employee (EPO)
			B727EP	#PCDATA	Origin of applicant's rights if not inventor: under agreement (EPO)



Ref.: Standards – ST.32 page: 3.32.68

INID	Bibliographic tag	Content		Description	
			B728EP	#PCDATA	Origin of applicant's rights if not inventor: as co- inventor (EPO)
			B729EP	#PCDATA	Origin of applicant's rights if not inventor: as successor in title (EPO)
73	B730				Grantee (assignee) information
		B731	%PARTY;		Name and address
			B736EP	CTRY	Designated states for grantee (EPO)
			B737EP	CTRY	Designated extension states for grantee (EPO)
			B738EP	DATE	Effective date for transfer of rights (EPO)
		B732US	#PCDATA	\	Assignee type code (USPTO)
74	B740				Attorney, agent, representative information
		B741	%PARTY;		Attorney or Agent name and address
			B742EP	#PCDATA	General authorisation number (EPO)
	B745			<b>-</b>	Persons acting upon the document
		B746	%NAM;		Primary examiner
		B747	%NAM;		Assistant examiner
		B748US	#PCDATA	1	Art Group/Unit (USPTO)
Note:	INID Codes 75 and	76 have not be	en impleme	nted	
	B780				Opposition data
		B781	(dnum,dat %PARTY;		Opponent data, name and address
			B784	%PARTY;	Attorney or agent information
			B785	DATE	Opposition deemed not to have been filed
			B786	DATE	Opposition inadmissable
			B787	DATE	Date of rejection of opposition
			B788	DATE	Date of termination of opposition
			B789	#PCDATA	No opposition filed
	B790				Licensee Data
		B791	(dnum,date,kind) %PARTY;		Licensee data, name and address
			B794	%PARTY;	Attorney or agent information
			B796	CTRY	Designated countries for license
80 90	B800	<u> </u>		<u>,                                     </u>	International Convention Data other than the Paris Convention
81	B810		CTRY		Designated States - PCT
	B820		CTRY		PCT Elected States
83	B830				Microorganism deposits information
		B831	#PCDATA		Deposit file number
	1	B832	#PCDATA		Authority where deposit made
		B833	DATE		Date of deposit
84	B840		CTRY		Designated contracting states
	B844EP		12		States to which the application/patent is extended (EPO)



Ref.: Standards – ST.32 page: 3.32.69

TABL	TABLE OF SGML TAGS FOR BIBLIOGRAPHIC DATA								
INID	Bibliographic tag		Content		Description				
		B845EP	%DOC;		Extended state data (EPO)				
			B846EP	DATE	End data (withdrawal) (EPO)				
85	B850		DATE		Date of PCT Articles 22/39 fulfillment				
86	B860				PCT or regional filing information				
		B861	%DOC;		Document Identification				
		B862	#PCDATA		Filing Language (ISO 639)				
		B863	DATE		PCT <sup>o</sup> 371 Date				
		B864	DATE		PCT º 102(e) Date				
87	B870				PCT or regional publication information				
		B871	%DOC;		Document identification				
		B872	#PCDATA		Publication language (ISO 639)				
88	B880		%DOC;		Deferred publication of search report				
89	B890				CMEA Agreement data				
		B891	%DOC;		Havana agreement document identification				
		B892	DATE		Havana agreement date of property rights				
	B900				Miscellaneous data				
91	B910		DATE		Date PCT application no longer has effect				

For the DTD syntax see Annex B.



Ref.: Standards – ST.32 page: 3.32.70

# INDEX OF ELEMENTS AND ATTRIBUTES

(For Part 1 only)

# **ELEMENTS**

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<f></f>	44	< <u> </u>			
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ATTRIBUTE: al=34, 35, 36 ALIGN12, 45 align=12, 18, 49, 51, 57	s	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=28, 31		rb=	. 57
ATTRIBUTE: al=34, 35, 36 ALIGN12, 45 align=12, 18, 49, 51, 57 CB34, 35, 36	s	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=28, 31 KIND9		rb=	. 57
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ATTRIBUTE: al=34, 35, 36 ALIGN	s	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=28, 31 KIND9 LA 10 level=25, 26		rb=	57
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ATTRIBUTE: al=34, 35, 36 ALIGN	S	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=		rb=	57
ATTRIBUTE: al=34, 35, 36 ALIGN	S	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=		rb=	57
ATTRIBUTE: al=34, 35, 36 ALIGN	S	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=		rb=	57
ATTRIBUTE: al=34, 35, 36 ALIGN	S	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=		rb=	57
ATTRIBUTE: al=34, 35, 36 ALIGN	S	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=		rb=	57
ATTRIBUTE: al=34, 35, 36 ALIGN	S	id=3, 13, 29, 30, 33, 39, 41, 45, 47 imf=		rb=	57
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Ref.: Standards – ST.32 page: 3.32.71

# ANNEX A: SGML DECLARATION FOR PATENT DOCUMENTS

The ST.32 SGML Declaration below contains the reference concrete syntax to be applied when exchanging patent data in roman languages. It is not necessary, usually, to include this declaration and/or the DTD with the patent document data being exchanged. The declaration and the DTD, below, shall be deemed as the defaults for this purpose. It is stressed that the declaration may be modified, as required, for a particular language's character set, eg. for Russian or Japanese; or for particular parsers, etc.

If, for any reason, patent data is exchanged using a different character set then the receiving agent should be informed and the declaration modified accordingly. It is strongly advised that, for roman languages, this declaration should be the default since ISO 646 is processable by most systems; although extension, to ASCII 437, for example, may be an acceptable second level alternative.

```
<!SGML "ISO 8879:1986"
-- Default SGML declaration using the Reference concrete syntax --
BASESET
         "ISO 646-1983//CHARSET
          International Reference Version (IRV)//ESC 2/5 4/0"
DESCSET
                9
                      UNUSED
          0
          9
                2
                      9
          11
                2
                      UNUSED
          13
                1
                      13
                      UNUSED
          14
                6
                      UNUSED
          20
                3
                3
          23
                      UNUSED
                      UNUSED
          27
                5
                      UNUSED
          32
                95
                      32
                      UNUSED
          127
                1
                127
          128
                     128
CAPACITY SGMUREF
         TOTALCAP 60000
         ENTCAP
                   35000
         ENTCHCAP 35000
         ELEMCAP 35000
         GRPCAP
                   35000
         EXGRPCAP 35000
         EXNMCAP 35000
         ATTCAP
                   35000
         ATTCHCAP 35000
         AVGRPCAP 35000
         NOTCAP
                   35000
         NOTCHCAP 35000
         IDCAP
                   35000
         IDREFCAP 35000
         MAPCAP
                  35000
         LKSETCAP 35000
LKNMCAP 35000
SCOPE
         DOCUMENT
SYNTAX
SHUNCHAR CONTROLS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
                18 19 22 23 24 25 27 28 29 30 31 127
         "ISO 646-1983//CHARSET
BASESET
          International Reference Version (IRV)//ESC 2/5 4/0"
DESCRET 0
                128
                        Λ
FUNCTION RE
                1.3
         RS
                10
         SPACE
                32
                SEPCHAR 9
         TAB
         LCNMSTRT ""
NAMING
         UCNMSTRT ""
         LCNMCHAR "-."
UCNMCHAR "-."
         NAMECASE GENERAL YES
                  ENTITY NO
         GENERAL SGMLREF
DELIM
         SHORTREF SGMLREF
NAMES
         SGMLREF
QUANTITY SGMLREF LITLEN 500 ATTCNT 50
FEATURES
                                                   NO
MINIMIZE DATATAG NO
                         OMITTAG YES
                                          RANK
                                                           SHORTTAG YES
LINK
         SIMPLE NO
                         IMPLICIT NO
                                          EXPLICIT NO
OTHER
         CONCUR NO
                         SUBDOC
                                  YES 1 FORMAL
                                                   YES
APPINFO NONE>
```



Ref.: Standards – ST.32 page: 3.32.72

# ANNEX B: DOCUMENT TYPE DEFINITION FOR PATENT DOCUMENTS

```
<!-- DOCUMENT TYPE DEFINITION FOR PATENT DOCUMENTS FOR WIPO ST.32
<!-- EPO/USPTO revised standard WIPO ST.32
                                                                          -->
    DTD (EPO Version: 3.4 Nov 1995)
<!--
<!-- ******************
<!--
                                                                          -->
<!DOCTYPE patdoc [
<!--
-->
<!-- (C) International Organization for Standardization 1986
    Permission to copy in any form is granted for use with
    conforming SGML systems and applications as defined in
    ISO 8879, provided this notice is included in all copies.
< ! --
<!ENTITY % ISOnum PUBLIC
  "ISO 8879-1986//ENTITIES Numeric and Special Graphic//EN">
%ISOnum;
<!ENTITY % ISOlat1 PUBLIC
  "ISO 8879-1986//ENTITIES Added Latin 1//EN">
%ISOlat1;
<!ENTITY % ISOlat2 PUBLIC
  "ISO 8879-1986//ENTITIES Added Latin 2//EN">
%ISOlat2;
<!ENTITY % ISOpub PUBLIC
  "ISO 8879-1986//ENTITIES Publishing//EN">
%ISOpub;
<!ENTITY % ISOtech PUBLIC
  "ISO 8879-1986//ENTITIES General Technical//EN">
%ISOtech;
<!ENTITY % ISOgrk1 PUBLIC
 "ISO 8879-1986//ENTITIES Greek Letters//EN">
%ISOgrk1;
<!ENTITY % ISOgrk2 PUBLIC
  "ISO 8879-1986//ENTITIES Monotoniko Greek//EN">
%ISOgrk2;
<!ENTITY % ISOgrk3 PUBLIC
  "ISO 8879-1986//ENTITIES Greek Symbols//EN">
%TSOark3:
<!ENTITY % ISOgrk4 PUBLIC
  "ISO 8879-1986//ENTITIES Alternative Greek Symbols//EN">
%ISOgrk4;
<!ENTITY % ISOcyrl PUBLIC
  "ISO 8879-1986//ENTITIES Russian Cyrillic//EN">
%ISOcyrl;
<!ENTITY % ISOcyr2 PUBLIC
  "ISO 8879-1986//ENTITIES Non-Russian Cyrillic//EN">
%ISOcyr2;
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%ISOamso;
<!ENTITY % ISOamsb PUBLIC
  "ISO 8879-1986//ENTITIES Added Math Symbols: Binary Operators//EN">
%ISOamsb;
<!ENTITY % ISOamsr PUBLIC
  "ISO 8879-1986//ENTITIES Added Math Symbols: Relations//EN">
%TSOamsr:
<!ENTITY % ISOamsn PUBLIC
  "ISO 8879-1986//ENTITIES Added Math Symbols: Negated Relations//EN">
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<!ENTITY % ISOamsc PUBLIC
  "ISO 8879-1986//ENTITIES Added Math Symbols: Delimiters//EN">
%ISOamsc;
<!ENTITY % ISObox PUBLIC
  "ISO 8879-1986//ENTITIES Box and Line Drawing//EN">
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<!ENTITY % ISOdia PUBLIC
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Ref.: Standards – ST.32 page: 3.32.73

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%ISOdia;
<!--
<!-- (C) International Organization for Standardization 1991
     Permission to copy in any form is granted for use with
     conforming SGML systems and applications as defined in
     ISO 8879, provided this notice is included in all copies.
< ! --
<!ENTITY % ISOAMSA PUBLIC
  "ISO 9573-13:1991//ENTITIES Added Math Symbols: Arrow Relations//EN">
%ISOAMSA;
<!ENTITY % ISOAMSB PUBLIC
  "ISO 9573-13:1991//ENTITIES Added Math Symbols: Binary Operators//EN">
%ISOAMSB;
<!ENTITY % ISOAMSC PUBLIC
  "ISO 9573-13:1991//ENTITIES Added Math Symbols: Delimiters//EN">
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<!ENTITY % ISOAMSN PUBLIC
  "ISO 9573-13:1991//ENTITIES Added Math Symbols: Negated Relations//EN">
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<!ENTITY % ISOAMSO PUBLIC
  "ISO 9573-13:1991//ENTITIES Added Math Symbols: Ordinary//EN">
%ISOAMSO;
<!ENTITY % ISOAMSR PUBLIC
  "ISO 9573-13:1991//ENTITIES Added Math Symbols: Relations//EN">
%TSOAMSR:
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  "ISO 9573-13:1991//ENTITIES Chemistry//EN">
%ISOCHEM;
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  "ISO 9573-13:1991//ENTITIES Greek Symbols//EN">
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%ISOGRK4;
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  "ISO 9573-13:1991//ENTITIES Math Alphabets: Fraktur//EN">
%ISOMFRK;
<!ENTITY %
          ISOMOPF PUBLIC
  "ISO 9573-13:1991//ENTITIES Math Alphabets: Open Face//EN">
%ISOMOPF;
<!ENTITY % ISOMSCR PUBLIC
  "ISO 9573-13:1991//ENTITIES Math Alphabets: Script//EN">
%TSOMSCR:
<!ENTITY % ISOPUB
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  "ISO 9573-13:1991//ENTITIES Publishing//EN">
%ISOPUB;
<!ENTITY % ISOTECH PUBLIC
   "ISO 9573-13:1991//ENTITIES General Technical//EN">
%ISOTECH;
<!-- (C) International Organization for Standardization 1992
    Permission to copy in any form is granted for use with
    conforming SGML systems and applications as defined in
    ISO 8879, provided this notice is included in all copies.
<!--ENTITY % ISOCH
                     PUBLIC
   "ISO 9573-11:1992//ENTITIES Chemistry//EN">
%ISOCH; -->
<!--
<!-- ENTITY % patspec SYSTEM "patspent.ent"
<!-- Special characters used in patent documents but not defined
     in public sets. See Annex C of ST.32.
     When including this file reference in the DTD the reference may
     have to be modified depending on the system and parser in use.
     Note that this entity is commented out of this DTD.
                                                                             -->
                                                                             -->
<!-- %patspec;
<!--
                                                                             -->
<!--
                                                                             -->
                                                 ******
<!-- ********* GROUPED ENTITIES
                                                                             _->
                                                                             -->
<!--
<!-- Types of embedded images and captions
<!ENTITY % img
                "emi | emr | ele | rti | txf | gai "
<!-- Types of highlighting, superscripts, subscripts, and floating accents
<!-- fgrf - figure reference and clrf - claims reference
            as forseen for later use
```



Ref.: Standards – ST.32 page: 3.32.74

```
<!ENTITY % hil "b | i | o | u | bai | han | chf | fla | ltl | sb | sp "
<!-- Types of lists
<!ENTITY % lst "dl | ol | sl | ul"
<!-- Displayed and in-line math formulae
<!-- altmath is forseen for later use <!ENTITY % math "f | df | dfg | dfref | altmath"
<!-- Chemical formulae, chemical reactions, and chemical structure diagrams -->
<!ENTITY % chem "che | chr | crf"
<!-- Types of tables
                                                                                -->
<!-- calstab is forseen for later use
                                                                                -->
<!ENTITY % table "tab | calstab"
<!-- Five types of complex material inside or outside of paragraphs
<!-- bioseq is forseen for later use
<!ENTITY % compl "(%lst;)|(%table;)|(%math;)|(%chem;)|bioseq"
<!-- Name of an individual or organization
<!ENTITY % nam
                  "ttl?, (fnm?&snm?), sfx?, iid?, irf?, onm?, syn*, oid?, (odv, did) *"
<!-- Components of party
<!ENTITY % party "(%nam;),adr?,dtxt*,rctry?,nctry?"
<!-- Components of the author group
                                                                                -->
<!ENTITY % authgrp "(author|coauth|collab)+"</pre>
<!-- Components of document identification
<!ENTITY % doc "(dnum?&date?),ctry?,kind?,bnum?,dtxt*"
                                                                                -->
<!ENTITY % extdoc "(dnum&date?),ctry?,kind?,bnum?,dtxt*"
<!-- Components of a patent document citation
<!ENTITY % pcit "(%extdoc;),(%nam;)*,pic*,pnc*"
<!-- Components of a non-patent document citation
<!ENTITY % ncit "(artcit|bookcit|dbasecit|othcit)"
<!-- Contents of a paragraph
<!--
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Ref.: Standards – ST.32 page: 3.32.76

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Ref.: Standards – ST.32 page: 3.32.77

```
<!ATTLIST pln n
                    NMTOKEN #REQUIRED
                                       -- Page line number
<!-- ************ Pseudo IN-LINE CHEMISTRY ***********
-->
             num
- -
id
                     (%ptext;)*
ID #IMPLIED
CDATA #IMPLIED
                                        -- Chemical reaction
                                        -- chem reaction id
<!ATTLIST chr
             num
                                        -- specific number
<!ELEMENT crf - o EMPTY -- Reference to che. formu
<!ATTLIST crf refid IDREF #REQUIRED -- reference id.</pre>
                                        -- Reference to che. formula-->
                                                               -->
                                                               -->
    ****** AND ATTRIBUTES ***
                                                               -->
<!--
< ! --
<!ENTITY % rowcnt "(tti?) | (tch*, tsh*) | (tsb?, cel*)" -- Head + start of body
<!-- calstab forseen for later use
                                        -- CALS table
<!ELEMENT calstab - o EMPTY
--
                                                               -->
                                                               -->
                                                               -->
                                        -- Text alignment
                                       -- Table row
-- Table cell
                    EMPTY
<!ELEMENT row - o
-->
                                                               --
              ce
al
                     -- End column
(L | R | C | D | E) "R"-- Text alignment
NUMBER #IMPLIED
                                                               --
              rotation NUMBER #IMPLIED
                                      -- Rotation of cell contents-->
<!--
<!-- This section forseen for later use (PATENTIN)
<!ELEMENT bioseg - o EMPTY
                                        -- (Stub for later expans.) -->
                                        -- Reference number
<!ATTLIST bioseq n
                    NUMBER #IMPLIED
<!ENTITY % elem "plex|sum|integral|product|sqrt|root|square|power|fence|</pre>
              vec|matrix|pile|tensor|frac|sup|sub"
                                         -- Constructs
<!ENTITY % layout "mark|markref|break|box|middle|ov|roman|italic"
                                         -- Layout see %hil;
                                                               -->
<!ENTITY % formel "(%elem;)|(%layout;)|#PCDATA"
                                        -- Formula elements
<!ENTITY % fencty "paren|bracket|brace|bar|angbrack|solidus|none"</pre>
                                        -- Kinds of fence
                                                               -->
<!-- ********** MATHEMATICAL MAIN ELEMENTS **********
<!-- The following element allows for alternate math markup schemes.
<!-- NOTATION AAP SYSTEM " "
<!NOTATION EQN SYSTEM " " >
<!NOTATION GML SYSTEM " " >
<!NOTATION TEX SYSTEM " " >
```



Ref.: Standards – ST.32 page: 3.32.78

```
<!NOTATION WP
                              SYSTEM " "
 <!NOTATION Word SYSTEM " " >
<!ELEMENT altmath - - CDATA</pre>
                                                                                                 -- Alternate math markup
 <!-- ATTLIST altmath system NOTATION (AAP|EQN|GML|TeX|WP|Word)
                                                                                                       Alternate markup systems -->
 <!-- The following elements, etc. are ISO/TR 9573 based and recommended
 <!--
| Comparison | Com
 <!ELEMENT f
                                                    (%formel;)+ - (br|matrix|pile|frac|mark|markref)
 <!ATTLIST (sup|sub) pos (PRE|MID|POST) "POST" -- Position (default post)

<!ELEMENT frac -- ((%formel;)+, over) -- Fraction numerator
<!ATTLIST frac align (%align;) "centre" -- Fraction alignment
<!ELEMENT over - o ((%formel;)+) -- Fraction denominator</pre>
 <!--
                                                                                                                                                          -->
 <!-- ************ CONSTRUCTS WITH 'FROM' 'TO' 'OF' ********
                                                                                                                                                         -->
                                                                                                                                                          -->
 < ! --
 <!ELEMENT plex - -
                                                   (operator, (from?&to?)?,of?)
                                                                                                -- Generalized operator
                                                                                                                                                         -->
-- Operator symbol
                                                                                                 -- Start index for operator -->
                                                                                                 -- End index for operator
                                                                                                 -- Formula operated upon
                                                                                                -- Summation
                                                                                                 -- Integral
                                                                                                  -- Product
 <!-- *********** ROOTS AND POWERS
                                                                                                  ******
 <!--

<!ELEMENT sqrt --
<!ELEMENT root --
(!ELEMENT root --
(!formel;)+,of) -- Root: degree/of
<!ELEMENT square --
(!formel;)+
<!ELEMENT power --
(!formel;)+,of) -- Power: degree/of</pre>
                                                                                                                                                          -->
                                                                                                                                                          -->
 < ! --
                                                                                                                                                          -->
 <!-- ********** FENCES AND HIGHLIGHTS ************
                                                                                                                                                          -->
< ! --
                                                                                                                                                          -->
                                                                                                  -- Brackets, parentheses etc. -->
                                                                                                 -- Fence kind code
 <!-- *********** VECTORS, MATRICES, PILES ***********
align (%align;) "centre"
-->
                                                                                                                                                          -->
                                                                                                                                                         -->
 <!-- ******************** LAYOUT ORIENTED CODING **************
                                                                                                                                                          _->
 <!--
                                                                                                                                                          -->
 -- Mark for alignment
 <!ATTLIST break type (required|optional) "required"
```



Ref.: Standards – ST.32 page: 3.32.79

```
-- type of break
<!ELEMENT box - - (%formel;)+ -- Box aro
<!ELEMENT roman - - (%formel;)+ -(roman) -- Roman
<!ELEMENT italic -- (%formel;)+ -(italic) -- Italic
<!ELEMENT middle -- (#PCDATA) -- Middle</pre>
                                                  -- Box around a formula
                                                  -- Middle of a space
<!ELEMENT middle - - (#FCDATA)
<!ATTLIST (box|middle) style (%style;) "single" -- Line styles
-- 'Over' embellishment
--
                                                -- style of a line or mark -->
          suffix CDATA #REQUIRED
                                                 -- value of the first suffix-->
                                                                               -->
<!--
<!ELEMENT sdobi - o
                          (B000?, B100, B200?, B300?, B400?, B500?, B600?,
                          B700?, B800?, B900?) + (bchg|echg)
<!ELEMENT bchg - o EMPTY <!ATTLIST bchg date NUMBER
                                                  -- Begin change
                 date NUMBER #REQUIRED status CDATA #REQUIRED
                                                  -- Date of change
                                                 -- Status of change
<!ELEMENT echg - o
                                                  -- End change
                          EMPTY
                                                                               -->
<!-- **************** SYSTEM/FILE INFORMATION ***************
<!--
<!ELEMENT BOOO - o
                          (eptags?, ustags?, jptags?, xxtags?)
<!-- The following tags are for the specific use of the EPO -
                                                                               -->
<!-- they are inserted as an example and may be changed at the
                                                                               -->
<!-- discretion of the EPO.
<!ELEMENT eptags - o
                           (B001EP?,B002EP?,B003EP?,B004EP?,B005EP?,B006EP?,B010EP?,B020EP?,B021EP?,B030EP?,
                           B050EP?, B053EP*, B060EP?, B061EP?, B070EP?, B078EP?)
<!ELEMENT B001EP - o
                           (#PCDATA)
                                                  -- Select. mask for states
                                                                  involved
<!ELEMENT B002EP - o
                          (#PCDATA)
                                                  -- Reserved
<!ELEMENT B003EP - o
                          (#PCDATA)
                                                  -- Indicator 'no A-doc pub.
                                                                 by EPO'
                          (#PCDATA)
<!ELEMENT BOO4EP - o
                                                  -- Re-establishments of
                                                    rights indicator
                                                  -- Printer id.
<!ELEMENT BOOSEP - o
                          (#PCDATA)
<!ELEMENT B006EP - o
                                                 -- Ind. for inter. applic.
                          (#PCDATA)
<!ELEMENT B010EP - o
                                                 -- Other rights and legal
                          (B011EP)+
                                                    means of execution
<!ELEMENT B011EP - o
                          (date,dnum,ctry*)
                                                  -- Serial number date and
                                                     states
                                                  -- Biblio rec. creation
                                                                               -->
<!ELEMENT B020EP - -
                          CDATA
<!ELEMENT B021EP - -
                                                  -- Biblio. rec. correction
                           CDATA
<!ELEMENT B030EP - -
                                                  -- Legal status data
                          CDATA
                         (B051EP, B052EP) + (#PCDATA)
<!ELEMENT B050EP - o
                                                 -- Free text data
                                                 -- Language
<!ELEMENT B051EP - o
                      (#PCDA
(#PCDA
CDATA
CDATA
(#PCDA
                         (#PCDATA)
(#PCDATA)
<!ELEMENT B052EP - o
                                                  -- Free text
                                                 -- Remarks
<!ELEMENT B053EP - o
                          CDATA
<!ELEMENT B060EP - -
                                                 -- Check data
<!ELEMENT B061EP - -
                                                 -- Data relating to fees
<!ELEMENT B070EP - o
                          (#PCDATA)
                                                  -- B pub. technical field
                                                                              -->
<!ELEMENT B078EP - o
                          (DATE)
                                                  -- Date of 'no oppo. filed' -->
<!--
<!ELEMENT ustags - o
                          EMPTY
<!ELEMENT jptags - o
                          EMPTY
< ! --
                          Element for other offices
<!ELEMENT xxtags - o
                          EMPTY
<!-- ************* DOCUMENT IDENTIFICATION *************
<!-- *********** B100 IS REQUIRED WITHIN SDOBI *********
<!ELEMENT B100 - o
                          (B110,B120?,B130,B131EP?,B140,B190,B195?)
```



Ref.: Standards – ST.32 page: 3.32.80

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Ref.: Standards – ST.32 page: 3.32.82

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Ref.: Standards – ST.32 page: 3.32.83

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Ref.: Standards – ST.32 page: 3.32.84

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Ref.: Standards – ST.32 page: 3.32.87

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                           (#PCDATA)
                                                    -- Individual ref.
                      (#PCDATA)
(#PCDATA)
(#PCDATA)
                                                      number(filing, etc.)
                 - 0
<!ELEMENT onm
                                                    -- Organization name
<!ELEMENT oid - o
                                                    -- Identifying no. of org. -->
<!ELEMENT odv
                 - 0
                                                    -- Division of organization -->
<!ELEMENT did - o
                                                    -- Identifying no. of div. -->
                           (#PCDATA)
<!--
< ! --
                           Components of an address
<!--
                                                                                  -->
<!ELEMENT adr
                           ((%nam;)?,omc?,pbox?,str*,city?,
                  0 0
                           cnty?, state?, (ctry?&pcode?), (ead*&tel*&fax*))
<!-- nam
<!ELEMENT omc
                           Organization name, if part of address
                                                                                  -->
                       (#PCDATA)
(#PCDATA)
(#PCDATA)
                 - 0
                           (#PCDATA)
                                                    -- Organization mail code
                                                                                  -->
                                                    -- Post Office box number
<!ELEMENT pbox - o
                                                                                  -->
                          (#PCDATA) -- Str., house no. or name district of city, apt number, etc.
(#PCDATA) -- City or town
(#PCDATA) -- County, parish,
<!ELEMENT str - o
                                                    -- Str., house no. or name, -->
<!--
                 - 0
<!ELEMENT city
<!ELEMENT cnty - o
                                                         department, etc. -->
<!ELEMENT state - o
                          (#PCDATA)
                                                    -- Region of country
                                                  (state, province) -->
-- Country (ST.3)
<!ELEMENT ctry
                - 0
                          (#PCDATA)
<!ELEMENT pcode - o
                           (#PCDATA)
                                                   -- Postal code or zip code
                                                   -- Electronic address
<!ELEMENT ead - o
                           (#PCDATA)
                                                   (e.g., email)
-- Telephone number
                                                     (e.g., email)
<!ELEMENT tel
                          (#PCDATA)
                 - 0
<!ELEMENT fax - o
                          (#PCDATA)
                                                    -- Fax telephone number
                                                                                  -->
< ! --
                                                                                  -->
                           Components of party (party)

Name of person or organisation
<!--
                                                                                  -->
         nam
< ! --
                                                                                  -->
<!--
         adr
                                        Address
                                                                                  -->
<!ELEMENT dtxt - o
                       (#PCDATA)
(ctry)
                                                                                  -->
                                                    -- Descriptive text
                          (#PCDATA)
(ctry)
<!ELEMENT rctry - o
                                                    -- Country of residence
<!ELEMENT nctry - o
                            (ctry)
                                                   -- Country of nationality
                           Components of a date (date)
                                                                                  -->
<!--

      Components of a date (date)

      (#PCDATA, time?)
      -- YYYYMMDD

      (#PCDATA)
      -- HHMMSS (UCT)

                       (#PCDATA, tir
<!ELEMENT date - o <!ELEMENT time - o
<!--
                           Components of a doc and extdoc (doc, extdoc)
                           (#PCDATA, (anum?&pnum?)) -- Document number
<!ELEMENT dnum - o
<!ELEMENT anum - o
<!ELEMENT pnum - o
                          (#PCDATA)
(#PCDATA)
                                                   -- Application number
                                                   -- Publication number
                                                                                  -->
                                   Document date
<!-- date
< ! __
                                        Publishing country, organisation
          ctrv
<!ELEMENT kind - o (#PCDATA)
                                                    -- Document kind (ST.16),
                                                     kind generally
                                                    -- Bulletin number
<!ELEMENT bnum - o
                           (#PCDATA)
                                                                                  -->
<!-- dtxt
                                        Descriptive text
                                                                                  -->
<1--
                                                                                  -->
<!-- ************ SEARCH REPORT SUBDOCUMENT ***********
                                                                                  -->
<!--
                                                                                  -->
                           ((B510?,B520?,B560?,B580?)|(emi)+)
<!ELEMENT sdosr - o
<!--
                           Search report must or may contain:
<!-- B510
                                        IPC
<!-- B520
                                        National classification
<!-- B561
                                        Patent citation
<!-- B562
                                        Non-patent citation
< ! __
                 ** B561 and/or B562 are required if B560 present
                                        Category of cited document
<!-- B563
                                                                                  -->
<!-- B564
                                                                                  -->
                                        Claims to which relevant
<!-- B561EP
                                        Number of copies of citation (EPO)
                                        Date of search
                                                                                  -->
<!-- B565
<!-- B565EP
                                                                                  -->
                                        Date of draw. up and despatch (EPO)
<!-- B566
                                                                                  -->
                                        Date of mailing search report
                                        Date of despatch of corr. to S.R. (EPO)-->
<!-- B566EP
                                        Patent office carrying out search
<!-- B567
                                                                                  -->
                                        Publication of search report
<!-- B568
                                                                                  _->
                                        Search report examiner
<!-- B569
                                                                                  -->
                                        Field of search IPC
<!-- B580
<!-- cit
                                                                                  -->
                                        Citation - optional
<!-- THE ABOVE TAGS TO BE USED - OR THE SEARCH REPORT AS AN EMI
1
```



Ref.: Standards – ST.32 page: 3.32.88

# ANNEX C: PATENT CHARACTER ENTITY REFERENCES (NON-ISO)

The following character entity references are referenced in the DTD above. This is a non-exhaustive list of entity references which may appear in patent documents - many more are possible, and, for data exchange, must be declared to receiving offices. The entity references below, plus the ISO entity references, allow all characters contained in WIPO Standard ST.31 to be included in a patent document instance.

<!-- (C) Special characters in Patent Information not in ISO. Permission to copy in any form is granted for use with conforming SGML systems and applications as defined in ISO 8879, provided this notice is included in all copies. --> <!-- Character entity set. Naming and reference to this file may be system dependent. Typical invocation:

# <!ENTITY % PATSPEC SYSTEM "patspent.ent"> %PATSPEC:-->

```
<!ENTITY and SDATA "[and ]" --Approx. but not actually equal to
<!ENTITY dlowbar SDATA "[dlowbar ]" --Double underscore
<!ENTITY Ehac SDATA "[Ehac ]" --Equals with hacek; equiangular</pre>
                                         ]" --Approx. but not actually equal to
                                                                                        -->
<!ENTITY litre     SDATA "[litre ]" --Litre
<!ENTITY lint     SDATA "[lint ]" --Lower</pre>
                                         ]" --Litre
]" --Lower integral
                                                                                       -->
-->
<!ENTITY lparstr SDATA "[lparstr ]" --Left parenthesis, stroke
-->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
                                                                                        -->
 <!ENTITY supcomma SDATA "[supcomma]" --Superscript comma
                                                                                        -->

      <!ENTITY supmin</td>
      SDATA "[supmin ]" --Superscript minus

      <!ENTITY spplus</td>
      SDATA "[supplus ]" --Superscript plus

      <!ENTITY uint</td>
      SDATA "[uint ]" --Upper integral

                                                                                        -->
                                                                                        -->
                                                                                        -->
```



Ref.: Standards – ST.32 page: 3.32.89

# ANNEX D: EXAMPLE PATENT DOCUMENT AND SGML MARKUP

# EXAMPLE OF A PATENT MARKED UP WITH SGML TAGS

The example which follows is a non-existent EPO patent which has been put together to show a variety of SGML markup which would not normally be found in one patent. In many cases the text is taken from actual patents, for example: the front page (title page). Even though it is a non-existent patent it generally follows EPO practice in regard to markup. However, the example should not necessarily be taken as representing EPO practice. The example document instance below conforms with the DTD in Annex B.

In reading this example please note that:

- \* The original page, or a made-up example, is placed on the left page (verso) and the marked up text is placed on the right page (recto). The 'original' text is that which might typically come into a patent office from an applicant or his representative. The pages shown below reflect draft recommendations under test by the EPO, and user groups, for application page layout. They should not be taken as official EPO recommendations. (Rules governing page layout, submission, etc. are covered in the European Patent Convention).
- \* All marked up data is commonly based on the ORIGINAL application, it may be reformatted later, in any way required by a patent office, based on a style sheet for 'house style', layout, etc. In the example below this re-formatting is shown for the title page and search report only (since the original data, in the EPO, was submitted on an application form and then input to a database with some data added this would be difficult to show here). Thus the title page shown was generated from the SGML markup, this is also the case for the search report page, whereas for all other pages the SGML markup is added to the original text.
- \* The markup references image data which, in the EPO, is scanned and indexed according to WIPO <u>ST.33</u>. These are not included as external entities linked to the example markup.
- \* Notes on the markup are placed in square brackets and in italic or are in the text itself.



Ref.: Standards – ST.32 page: 3.32.90



Europäisches Patentamt European Patent Office Office européen des brevets



11 Numéro de publication:

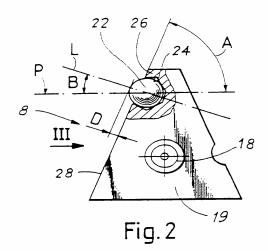
0 500 000 A1

(12)

# DEMANDE DE BREVET EUROPEEN

- 21 Numéro de dépôt: 92102108.5
- (1) Int. Cl.5: G06K 11/18, G05G 9/053

- 22 Date de dépôt: 08.02.92
- Priorité: 12.02.91 CH 432/91 18.02.91 FR 9101995
- Date de publication de la demande: 26.08.92 Bulletin 92/35
- Etats contractants désignés: AT BE DE DK ES GB IT LU NL PT SE
- ① Demandeur: Comadur SA Chemin des Tourelles 17 CH-2400 Le Locle(CH)
- Inventeur: Wyss, Peter von May-Strasse 4 CH-3600 Thun(CH)
- Mandataire: de Raemy, Jacques et al ICB Ingénieurs Conseils en Brevets SA Passage Max. Meuron 6 CH-2001 Neuchâtel(CH)
- Elément de commande formant souris.
- ② L'invention concerne un élément de commande formant souris, destiné à être associé à un ensemble de visualisation d'un curseur. Cet élément de commande comporte :
  - un boîtier (2);
  - une sphère mobile (4) faisant saillie à l'extérieur du boîtier (2) pour être actionnée par un utilisateur;
  - un dispositif de support (6) conformé pour recevoir ladite sphère mobile (4), ce dispositif de support (6) comportant au moins trois paliers (8) qui sont décalés angulairement et qui comprennent des pièces de contact (22) en un matériau à faible coefficient de frottement, sur lesquels repose ladite sphère mobile (4), cet élément de commande étant caractérisé en ce que les pièces de contact (22) coopèrent avec ladite sphère (4) par l'intermédiaire d'un frottement de roulement.



Rank Xerox (UK) Business Services



Ref.: Standards – ST.32 page: 3.32.91

<PATDOC> [Start of Patent document] <SDOBI LA=FR> [Start sub-document bibliography in French] <B100><B110>0500000 [Publication number] <B120><B121>DEMANDE DE BREVET EUROPEEN [Plain language designation] <B130>A1 [Publication kind] <B140><DATE>19920826 [Publication date] <B190>EP</B100> [Publishing country, organisation. Note how this tag, in combination with an EPO style sheet, generates the EPO logo and names] <B200><B210>92102108.5 [Application number] <B220><DATE>19920208</B200> [Application filing date] <B300><B310>432/91<B320><DATE>19910212 [Priority number, date, country] <B330<CTRY>CH<B310> 9101995 <B320><DATE>19910218<B330><CTRY>FR </B300><B400><B430><DATE>19920826<BNUM>92/35 [Date of publication of application, bulletin </B430></B400> numberl <B500><B510><B511>G06K 11/18 [IPC classification] <B512>G05G 9/053</B510> <B516>5 [IPC edition] <B540><B541>FR [Title data, language of title] <B542>Elément de commande formant [Title] souris.</B540></B500> <B700> [Parties concerned with the document] <B710><B711><SNM>Comadur SA [Applicant data, name and address] <ADR><STR>Chemin des Tourelles 17 <CITY> Le Locle<PCODE>CH-2400 <CTRY>CH</ADR></B711></B710> <B720><B721><SNM>Wyss<FNM> Peter [Inventor data, name and address] <ADR><STR>von May-Strasse 4 <CITY>Thun<PCODE>CH-3600 <CTRY>CH</ADR></B721></B720> <B740><B741><SNM>de Raemy<FNM>Jacques<SFX>et [Representative data, name and address] <ADR><ONM>ICB Ingénieurs Conseils en Brevets SA <STR>Passage Max. Meuron 6 <CITY>Neuchâtel<PCODE>CH-2001 <CTRY>CH</ADR></B741></B740></B700> <B800><B840><CTRY>AT BE DE DK ES GB IT LU NL [Designated contracting states. Note: these may be tagged PT SE</B840></B800> individually using <CTRY> within <B840>] </SDOBI> [End of bibliographic data]

[The text above was originally filed by the applicant using an application form (in the case of the EPO - form 1001), it was then input into a database system containing other data such as financial data, at publication time relevant publication data is extracted from the database and converted to the format above].



Ref.: Standards – ST.32 page: 3.32.92

- 1 -

# ABRÉGÉ

L'invention concerne un élément de commande formant souris, destiné à être associé à un ensemble de visualisation d'un curseur. Cet élément de commande comporte :

- un boîtier (2);
  - une sphère mobile (4) faisant saillie à l'extérieur du boîtier (2) pour être actionnée par un utilisateur;
  - un dispositif de support (6) conformé pour recevoir ladite sphère mobile (4), ce dispositif de support (6) comportant au moins trois paliers (8) qui sont décalés angulairement et qui comprennent des pièces de contact (22) en un matériau à faible coefficient de frottement, sur lesquels repose ladite sphère mobile (4), cet élément de commande étant caractérisé en ce que les pièces de contact (22) coopèrent avec ladite sphère (4) par l'intermédiaire d'un frottement de roulement.



Ref.: Standards – ST.32 page: 3.32.93

 $<\!\!DP\,N=1\!\!>$  [Document page "DP", number one - it is sometimes useful to mark the original page for quality control and checking purposes. It can be discarded at publication time.]

<SDOAB LA=FR> [Start of sub-document abstract in French, the heading [ABRÉGÉ] need not be captured since
SDOAB is sufficient and is replaced, in any case, by INID code (57) on publication. The abstract, when printed, normally forms part of the title page, however when submitted it usually forms part of the application papers which are distinct from any official filing form (as in the EPO). Therefore, in this example, the abstract, as filed, is shown opposite, as well as on the printed title page earlier].

<P>L'invention concerne un élément de commande formant souris, destiné à être associé à un ensemble de visualisation d'un curseur. Cet élément de commande comporte :

<UL ST="-"> [Start of unordered list using list item <LI> style of '-']

<LI>un boîtier <B>(2)</B>; [Figure reference points are marked as bold]

<LI>une sphère mobile <B>(4)</B> faisant saillie à l'extérieur du boîtier <B>(2)</B> pour être actionnée par un utilisateur; <LI>un dispositif de support <B>(6)</B> conformé pour recevoir ladite sphère mobile <B>(4)</B>, ce dispositif de support <B>(6)</B> comportant au moins trois paliers <B>(8)</B> qui sont décalés angulairement et qui comprennent des pièces de contact <B>(22)</B> en un matériau à faible coefficient de frottement, sur lesquels repose ladite sphère mobile <B>(4)</B>, cet élément de commande étant caractérisé en ce que les pièces de contact <B>(22)</B> coopèrent avec ladite sphère <B>(4)</B> par l'intermédiaire d'un frottement de roulement.

</UL> [End of unordered list]

<EMI FILE=921021085 ID='0.1' HE=85 WI=75 IMF=ST33 TI=AD> [EMI = EMbedded Image and here it references the abstract drawing: 'Fig. 2', which is extracted from the drawings pages, scaled down and re-referenced as EMI ID = '0.1'.; the height (HE) and width (WI) are calculated and it is re-classified as an abstract drawing (TI=AD). The actual image is held as a separate, external, file which is 'called in' at the time of processing, In the case of the EPO all images are scanned and indexed according to WIPO ST.33]

</SDOAB> [End of abstract sub-document]



Ref.: Standards – ST.32 page: 3.32.94

- 2 -

#### DESCRIPTION

# Thermal imaging apparatus

 The present invention relates to thermal imaging apparatus generally and more particularly to thermal imaging apparatus employing non-linear scanning.

# BACKGROUND OF THE INVENTION

- 2. Various types of thermal imaging devices are known in the art. These include:
  - \* parallel scan devices and
  - \* serial scan devices.

Serial scan devices which employ a plurality of detectors arranged in a linear array and interconnected to provide time delay and integration are described in the <a href="Laakmann Patent">Laakmann Patent</a>, Israel Patent 39,389.

- 3. There is described in the article: Elliott, C.T., et al. An Integrating Detector for Serial Scan Thermal Imaging. <a href="Infrared Physics">Infrared Physics</a>, 1982, vol 22, p31 42, the use of a Mercury Cadmium Telluride "SPRITE" detector for thermal imaging.
- 4. However, with the above second prior-art example, the measurement operation is difficult to automate and requires many hands. The first prior-art example allows automation of the measurement to be easily effected. On the other hand, it involves the following problems:
  - (1) Due to scattering and deterioration in the profile irregularity at the edge portions of the knife edges for splitting the two interference rays of light, noise is included in the beat signals.
  - (2) Any displacement of the set positions of the knife edges for splitting the two interference rays of light affect the measurement accuracy.



Ref.: Standards – ST.32 page: 3.32.95

<DP N=2>

<SDODE LA=EN>[Start of sub-document "SDO", description "DE", the language "LA" is English ". This tag may be used to generate the heading "Description". Normally, of course, there would not be a language mixture - French title page, English description, etc.]

<H LVL=0>Thermal imaging apparatus
/H> [This is header level zero indicating the title of the patent; this may be discarded if the title is also present at group tag <B540>]

<P N=1>The present invention relates to thermal imaging apparatus generally and more

[Start of paragraph one of the description. Note that the new concept of PARAGRAPH NUMBERING by the applicant is encouraged]

particularly to thermal imaging apparatus employing non-linear scanning.

<H LVL=1>BACKGROUND OF THE INVENTION</H>

<P N=2>Various types of thermal imaging devices are known in the art. These include:

<UL ST="""> [Start of an unordered list with '\*' as the markers]

<LI>parallel scan devices and<LI>serial scan devices.</UL>

Serial scan devices which employ a plurality of detectors arranged in a linear array and interconnected to provide time delay and integration are described in the <U>Laakmann Patent</U>, Israel Patent 39,389.

<P N=3>There is described in the article: <ARTCIT><AUTHOR><SNM>Elliott,<FNM> C.T., <SFX>et al. <ATL>An Integrating Detector for Serial Scan Thermal Imaging.<JNL><JTL> Infrared Physics, <DATE>1982<VID> vol 22</JNL><PP> p31 - 42,</ARTCIT>

[Above we have an article citation, here it is marked up using specific tags for periodical citations (normally used for bibliographic (title page) and search report citations, however, this has markup cost (data entry) implications.] the use of a Mercury Cadmium Telluride <B>"SPRITE"</B> detector for thermal imaging.

<P N=4>However, with the above second prior-art example, the measurement operation is difficult to automate and requires many hands. The first prior-art example allows automation

of the measurement to be easily effected. On the other hand, it involves the following problems:

- <SL> [Start of a simple list; in EP patents ordered lists are used only in Claims]
- <LI>(1) Due to scattering and deterioration in the profile irregularity at the edge portions of the knife edges for splitting the two interference rays of light, noise is included in the beat signals.
- <LI>(2) Any displacement of the set positions of the knife edges for splitting the two interference rays of light affect the measurement accuracy.</SL>



Ref.: Standards – ST.32 page: 3.32.96

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# SUMMARY OF THE INVENTION

- 5. It is the object of the present invention to overcome the deficiencies in the prior art.
- 6. The preferred composition of the steel of which the facing layer is formed is:-

Chromium 11.5 to 13.5% by weight, Nickel less than 1.5% by weight, Molybdenum less than 0.6% by weight.

7. A specific type of steel which may be used for the production of the facing layer is that in accordance with British Standard No. 416 S21 which has a composition as follows:-

Chromium 11.5 to 13.5% by weight,

Carbon 0.09 to 0.15% by weight,

Nickel not more than 1.0% by weight,

Molybdenum not more than 0.6% by weight,

Manganese not more than 1.5% by weight,

Silicon not more than 1.0% by weight,

- 8. PROVIDED THAT at least one of R<sup>a</sup>, R<sup>b</sup> and R<sup>c</sup> represents an unprotected group; and, if required, the following steps, in any order:
  - removing any protecting group, to give a compound of formula (I), and,
  - b. if required, converting any group represented by  $\mathbb{R}^1$ ,  $\mathbb{R}^2$  or  $\mathbb{R}^3$  to any other group so represented, and,
  - c. if required, converting a compound where  $R^4$  represents a hydrogen atom and  $R^5$  represents a cyano group to a compound where  $R^4$  represents a cyano group and  $R^5$  represents a hydrogen atom, or vice versa.



Ref.: Standards – ST.32 page: 3.32.97

```
<DP N=3>
```

- <H LVL=1><U>SUMMARY OF THE INVENTION</U></H>
- <P N=5>It is the object of the present invention to overcome the deficiencies in the prior art.
- <P N=6>The preferred composition of the steel of which the facing layer is formed is:-
- <DL TSIZE=12> [Start of a definition list]
- <DT>Chromium<DD>11.5 to 13.5% by weight, [Definition term followed by definition description strictly speaking this is NOT a definition list but the structure of the data is similar].
- <DT>Nickel<DD>less than 1.5% by weight,
- <DT>Molybdenum<DD>less than 0.6% by weight.
- </DL> [End of a definition list]
- <P N=7>A specific type of steel which may be used for the production of the facing layer is that in accordance with British Standard No. 416 S21 which has a composition as follows:-
- <DL TSIZE=12>
- <DT><B>Chromium</B><DD>11.5 to 13.5% by weight,
- <DT><B>Carbon</B><DD>0.09 to 0.15% by weight,
- <DT><B>Nickel</B><DD>not more than 1.0% by weight,
- <DT><B>Molybdenum</B><DD>not more than 0.6% by weight,
- <DT><B>Manganese</B><DD>not more than 1.5% by weight,
- <DT><B>Silicon</B><DD>not more than 1.0% by weight,

</DL>

<P N=8>PROVIDED THAT at least one of R<SP>a</SP>, R<SP>b</SP> and R<SP>c</SP> represents an unprotected group;<BR>
[Forced line break]

and, if required, the following steps, in any order:

- <SL> [Start of a simple list; in EP patents ordered lists are used only in Claims]
- <LI>a. removing any protecting group, to give a compound of formula (I), and,
- <LI>b. if required, converting any group represented by R&sup1;, R&sup2; or R&sup3; to any

[Here we have superscript character entity references, <SP> could also be used] represented, and,

<LI>c. if required, converting a compound where R&sup4; represents a hydrogen atom and R&sup5; represents a cyano group to a compound where R&sup4; represents a cyano group and R&sup5; represents a hydrogen atom, or <U>vice versa</U>.

</SL>



Ref.: Standards – ST.32 page: 3.32.98

- 4 -

# DETAILED DESCRIPTION OF THE INVENTION

9. To prepare the (+) enantiomer of the title compound, the reaction was run under the same conditions except that (+)-tramadol as the free base was used instead of the (-)-tramadol to yield 2.8 g of the (+) enantiomer of O-desmethyl tramadol (mp. 242-3°C)  $\square 25 = +32.2$ ° (C=1, EtOH).

D

10. Alternatively a route to compounds  $\underline{1}$  where r>1 is available by condensation of compounds of structure  $\underline{4}$  with an amino biphenyl methyl amine such as  $\underline{5}^1$ .  $\underline{4}$  may be prepared by heating the amino pyrazine carboxylic acid with excess acid chloride or anhydride. The precursor  $\underline{2}$  may be prepared by heating  $\underline{4}$  with ammonium carbonate to give the 2-substituted-pyrazino[2,3-d]pyrimidinones  $\underline{2}$ 

<sup>&</sup>lt;sup>1</sup> Irwin, W. J.; Wibberley, D., J. A New Pteridine Synthesis. Tetrahedron Lett. 1972, 32, 3359-3360.



Ref.: Standards – ST.32 page: 3.32.99

<DP N=4>

<H LVL=1><U>DETAILED DESCRIPTION OF THE INVENTION</U></H>

<P N=9>To prepare the (+) enantiomer of the title compound, the reaction was run under the same conditions except that (+)-tramadol as the free base was used instead of the (-)-tramadol to yield 2.8 g of the (+) enantiomer of O-desmethyl tramadol (mp. 242-3°C) & alpha;
CHF>25
CHFBR TYPE=NONE>D
CHF> = +32.2° (C=1, EtOH). [Here we have an example of a character fraction construct with no bar]
<P N=10>Alternatively a route to compounds <U>1
U> where r &gt;1 is available by condensation of [Above we use]

<P N=10>Alternatively a route to compounds <U>1</U> where r &gt;1 is available by condensation of *[Above we use the character entity reference for greater than - > - since it is a closing delimiter in SGML syntax]* compounds of structure <U>4</U> with an amino biphenyl methyl amine such as <U>5</U>.&sup1;. <FOO FN="4.1">&sup1;Irwin, W. J.; Wibberley, D., J. A New Pteridine
Synthesis. Tetrahedron Lett. 1972, 32, 3359-3360.

[Here we have a footnote, referenced as "4.1"; for processing reasons it is placed at the point of occurence. Normally the style of the footnote reference, here superscript one, can be controlled by the publisher. This is not the case with EP patent documents where the style used by the applicant must be preserved. Note that this reference could also be marked up with tags for citations]

<U>4</U> may be prepared by heating the amino pyrazine carboxylic acid with excess acid chloride or anhydride. The precursor <U>2</U> may be prepared by heating <U>4</U> with ammonium carbonate to give the 2-substituted-pyrazino[2,3-d]pyrimidinones <U>2</U>.



Ref.: Standards – ST.32 page: 3.32.100

- 5 -

11. Then the horizontal variation of  $\Box(x)$  is found to obey the equation:

$$\frac{d^2 \phi(x)}{dx^2} - \frac{\phi(x)}{\lambda_{SOT}^2} = 0 \tag{1}$$

It is in this respect that the natural length scale  $\square$  emerges. We have found that in order for an SOI device having an effective channel length  $L_{eff}$  to operate substantially free of short-channel effects such as punchthrough, the ratio  $\square_{SOI}/L_{eff}$  should be no more than about 0.1 - 0.2, although specific applications will dictate more precisely what ratio is small enough.

- 12. We have applied a similar theorerical analysis to a structure, the "ground plane" structure, which has different boundary conditions than the SOI structure. As discussed below, we have discovered not only that the ground plane structure is at least as effective as the SOI structure for reducing □, but also that it can be practically realized in bulk silicon.
- 13. The ground plane structure is depicted schematically in **FIG. 1**. As is apparent from the figure, a gate oxide layer 10 overlies a silicon layer 20. A portion of the silicon layer overlies a buried ground plane 30. Significantly (for purposes of this idealized picture), the lateral dimensions of the gate oxide, the channel, region 40, and the ground plane are assumed to be identical. The ground plane is considered to be maintained at a fixed potential, exemplarily ground potential.
- 14. We have found that such a structure has a natural length scale  $\Box$ , analogous to  $\Box_{\text{SOI}}$ , which is approximately given by:

$$\lambda = \sqrt{\frac{\epsilon_{Si}}{2\epsilon_{ox}} \frac{t_{Si}t_{ox}}{1 + \frac{\epsilon_{Si}t_{ox}}{\epsilon_{ox}t_{si}}}}$$
 (2)



Ref.: Standards – ST.32 page: 3.32.101

<DP N=5>

<P N=11>Then the horizontal variation of &Phi; (x) is found to obey the equation:

<DF NUM="(1)"><FRAC>d<SUP>2</SUP>&Phi; (x)<OVER>dx<SUP>2</SUP></FRAC> - <FRAC>&Phi;

(x) < OVER > & lambda; < SUP > 2 < / SUP > < SUB > SOI < / SUB > < / FRAC > = 0 < / DF > < < Constant | Cons

<PC>It is in this respect that the natural length scale &lambda; emerges. We have found that in order for an SOI device having an effective channel length L<SB>eff</SB> to operate substantially free of short-channel effects such as punchthrough, the ratio

λ<SB>SOI</SB>/L <SB>eff</SB> should be no more than about 0.1 - 0.2, although specific applications will dictate more precisely what ratio is small enough.

<P N=12>We have applied a similar theoretical analysis to a structure, the "ground plane" structure, which has different boundary conditions than the SOI structure. As discussed below, we have discovered not only that the ground plane structure is at least as effective as the SOI structure for reducing &lambda;, but also that it can be practically realized in bulk silicon.
<P N=13>The ground plane structure is depicted schematically in <B>FIG. 1</B>. As is apparent from the figure, a gate oxide layer 10 overlies a silicon layer 20. A portion of the silicon layer overlies a buried ground plane 30. Significantly (for purposes of this idealized picture), the lateral dimensions of the gate oxide, the channel region 40, and the ground plane are assumed to be identical. The ground plane is considered to be maintained at a fixed potential, exemplarily ground potential.
<P N=14>We have found that such a structure has a natural length scale &lambda;, analogous to &lambda;<SB>SOI</P>
, which is approximately given by:

<DF NUM="(2)">

λ = <SQRT><FRAC>&epsi;<SUB>Si</SUB><OVER>2&epsi;<SUB>ox</SUB></FRAC>

<FRAC>t<SUB>Si</SUB>t<SUB>ox</SUB><OVER>1 +

<FRAC>&epsi;<SUB>Si</SUB>t<SUB>ox</SUB><OVER>&epsi;<SUB>ox</SUB>t

<SUB>Si</SUB></FRAC></FRAC></SQRT></DF>



Ref.: Standards – ST.32 page: 3.32.102

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#### EXAMPLE TABLE

15. The pigment base was diluted by mixing (not grinding) with a much larger quantity of the opaque white bleach base, so as to eliminate any minor differences of gloss and hue. In each of these comparisons, 4g of a pigment grind base (formulated as shown above) were mixed with 4g of water and 32g of the above bleach base. The results are listed in Table I below.

TABLE I

Bleach Test <sup>1</sup>								
	J-	678	GA-1					
	Density <sup>2</sup>	Gloss <sup>3</sup>	Density <sup>2</sup>	Gloss <sup>3</sup>				
Yellow	0.66	60.2	0.66	63.1				
Rubine	0.81	56.5	0.82	57.3				
Blue	1.11	58.9	1.11	60.5				
Black	0.95	68.7	0.95	67.1				

- 1. Printed with #7 meyer bar on Printkote® Board.
- 2. Cosar Pressmate 102 Densitometer used.
- 3. Gloss Guard II Glossmeter, 60°.



Ref.: Standards – ST.32 page: 3.32.103

<DP N=6>

<H LVL=1>EXAMPLE TABLE</H>

<P N=15>The pigment base was diluted by mixing (not grinding) with a much larger quantity of the opaque white bleach base, so as to eliminate any minor differences of gloss and hue. In each of these comparisons, 4g of a pigment grind base (formulated as shown above) were mixed with 4g of water and 32g of the above bleach base. The results are listed in Table I below.

[Below we have a fairly simple table which also contains footnotes within the table]

<TAB CO=5 ID="Table I" CS="A S">

<ROW><TTI>Bleach Test<FOR FNREF='6.01'>&sup1;</FOR>

<ROW><TCH CB=1>

<TCH CB=2 CE=3>J-678

<TCH CB=4 CE=5>GA-1

<ROW><TSH>

<TSH>Density<FOR FNREF='6.02'><SP>2</SP></FOR>

<TSH>Gloss<FOR FNREF='6.03'><SP>3</SP></FOR>

<TSH>Density<FOR FNREF='6.02'><SP>2</SP></FOR>

<TSH>Gloss<FOR FNREF='6.03'><SP>3</SP></FOR>

<ROW><TSB>Yellow<CEL AL=D>0.66<CEL AL=D>60.2<CEL AL=D>0.66<CEL AL=D>63.1

<ROW><TSB>Rubine<CEL AL=D>0.81<CEL AL=D>56.5<CEL AL=D>0.82<CEL AL=D>57.3

<ROW><TSB>Blue<CEL AL=D>1.11<CEL AL=D>58.9<CEL AL=D>1.11<CEL AL=D>60.5

<ROW><TSB>Black<CEL AL=D>0.95<CEL AL=D>68.7<CEL AL=D>0.95<CEL AL=D>67.1

<FOO FN='6.01'>1. Printed with &num;7 meyer bar on Printkote&reg; Board.</FOO>

<FOO FN='6.02'>2. Cosar Pressmate 102 Densitometer used.</FOO>

<FOO FN='6.03'>3. Gloss Guard II Glossmeter, 60%&deg;.</FOO>

</TAB>



Ref.: Standards - ST.32 page: 3.32.104

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#### EXAMPLE PAGES

- 16. The text above was taken, with some slight modifications, from published patents. The text and graphics in the pages following contain a variety of examples to show different constructs and character entity references. The base code page for the data is ASCII 437 (extended ASCII); all other characters must be translated into character entity references based on ISO public character entities (referenced in the DTD).
- When wishing to preserve line endings 17. use the break line tag.
- 18. Here we have text in **Bold italic and underlined**
- 19. Here we have text with an overscore:

 $\mathbb{H}^2$ O,  $\square$  (small beta),  $\square$  (subset, equals)

- 20. Here we have text with a double underscore:  $X^2$   $Y_{x-y}$ ,  $\square$  (Weierstrass)
- 21. Here we have various subscript and superscript constructs within a simple list:

FIG 1.:  $x-y^{(a+b)}$ ,  $X^{4,5,6,7}$  or

 $X^{4,5,6,7}$ 

FIG 2.:  $ABC_{x-y=n}$ ,  $67_{\square}$  (left arrow over right arrow)

FIG 3.: X (abc) (xyz)



Ref.: Standards – ST.32 page: 3.32.105

<DP N=7>

<H LVL=1>EXAMPLE PAGES</H>

<P N=16>The text above was taken from published patents, with some slight modifications, the text and graphics in the pages following contain a variety of examples to show different constructs and character entity references. The base code page for the data is ASCII 437 (extended ASCII); all other characters must be translated into character entity references based on ISO public character entities (referenced in the DTD).

<P N=17>When wishing to preserve line endings<BR>use the break line tag.

<P N=18>Here we have text in <B><I><U>Bold italic and underlined</U></I></B><BR>

<P N=19>Here we have text with an overscore:<BR>

<O>H<sup>2</sup>;O, &beta; (small beta), &sube; (subset, equals)</O><BR>

<P N=20>Here we have text with a double underscore:<BR>

<U ST=D>X<sup>2</sup>, Y<SB>x-y</SB>, &weierp; (Weierstrass)</U><BR>

<P N=21>Here we have various subscript and superscript constructs within a simple list:<BR>

 $\langle SL \rangle$ 

<LI>FIG 1.: x-y<SP>(a+b)</SP>, X&sup4;,&sup5;,&sup6;,&sup7; or<BR>

X<SP>4,5,6,7</SP>

 $<\!\!LI\!\!>\!\!FIG\ 2.:<\!\!I\!\!>\!\!ABC\!\!<\!\!SB\!\!>\!\!x-y=n<\!\!/SB\!\!><\!\!/I\!\!>,67<\!\!SB\!\!>\!\!\&lrarr2;<\!\!/SB\!\!>(left\ arrow\ over\ right\ arrow)$ 

<LI>FIG 3.: X<SP>(abc)<SB>(xyz)</SP></SB>

</SL>



Ref.: Standards – ST.32 page: 3.32.106

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- 22. Here we have various lists and nested lists within a paragraph:
  - (1) List item one
  - (2) List item two
    - a) sub list item a
    - b) sub list item b
      - An unordered list with 'bullets' line one
      - An unordered list with 'bullets' line two
      - An unordered list with 'bullets' line three
    - c) sub list item c
  - (3) List item three
    - An unordered list with 'dash' line one
    - An unordered list with 'dash' line two
    - An unordered list with 'dash' line three
    - (4) List item four. This has a simple mathematical formula within the list:

$$n-1 = \frac{2x + 3y^2}{11x - 11y_{ab}}$$



Ref.: Standards – ST.32 page: 3.32.107

```
<DP N=8>
<P N=22>Here we have various lists and nested lists within a paragraph:
<LI>(1) <B>List item one</B>
<LI>(2) <B>List item two</B>
\langle SL \rangle
<LI>a) <I>sub list item a</I>
<LI>b) <I>sub list item b</I>
<UL ST="&bull;">
<LI>An unordered list with 'bullets' - line one
<LI>An unordered list with 'bullets' - line two
<LI>An unordered list with 'bullets' - line three
</UL>
<LI>c) <I>sub list item c</I>
</SL>
<LI>(3) <B>List item three</B>
<UL ST="-">
<LI>An unordered list with 'dash' - <U>line one</U>
<LI>An unordered list with 'dash' - <U>line two</U>
<LI>An unordered list with 'dash' - <U>line three</U>
</UL>
<LI>(4) <B>List item four</B>. This has a simple mathematical
formula within the list:<BR>
```

 $<\!DF\!>\!n-1 = <\!FRAC\!>\!2x+3y<\!SUP\!>\!2<\!/SUP\!><\!OVER\!>\!11x-11y<\!SUB\!>\!ab<\!/SUB\!><\!/FRAC\!><\!/DF\!>$ 



Ref.: Standards – ST.32 page: 3.32.108

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#### (5) List item five

- 23. Next we have a character for which there is no character code or character entity reference, therefore it must be scanned in as an unrecognised character (TI=FF) and be coded as an embedded image within the line:
  - The symbol  $\odot$  represents happiness and is often used in computer graphics since
  - exits as a special character in some font sets. Note the symbol can be used several times but scanned once only and referenced using the EMR tag. If the character is commonly occuring it can also be designated as a character entity reference.
- 24. Here we have a chemical formula:

 $2 \text{FeCl}_2.\text{FeCl}_3.\text{xH}_2\text{O}$ 

25. Here we have a chemical reaction:

BrCH=CH<sub>2</sub>+NO<sub>2</sub>Cl□CHBrClCH<sub>2</sub>NO<sub>2</sub>

26. Here we have an example of text which has been changed, eg. by the patent examiner, because it is incorrect. Here we have an example of text which has been changed, eg. by the patent examiner, this is the correct text.



Ref.: Standards – ST.32 page: 3.32.109

<DP N=9>

<LI>(5) <B>List item five</B><BR></SL>

<P N=23>Next we have a character for which there is no character code or character entity reference, therefore it must be scanned in as an unrecognised character (TI=FF) and be coded as an embedded image within the line:<BR>

The symbol <EMI ID='9.1' HE=3 WI=3 TI=FF> represents happiness and is often used in computer graphics since <EMR ID='9.1'> exits as a special character in some font sets. Note the <EMR ID='9.1'> symbol can be used several times but scanned once only and referenced using the EMR tag. If the character is commonly occuring it can also be designated as a character entity reference.

<P N=24>Here we have a chemical formula:<BR>

<CHE>2FeCl<SB>2</SB>.FeCl<SB>3</SB>.xH<SB>2</SB>O</CHE>

<P N=25>Here we have a chemical reaction:<BR>

<CHR>BrCH=CH<SB>2</SB>+NO<SB>2</SB>Cl&rarr;CHBrClCH<SB>2</SB>NO<SB>2

</SB> </CHR>

<P N=26><CHG DATE= 19950606 STATUS='ORIGINAL STRUCK OUT'>Here we have an example of text which has been changed, eg. by the patent examiner, because it is incorrect.</CHG><CHG DATE=19950606 STATUS=AMENDED>

Here we have an example of text which has been changed, eg. by the patent examiner, this is the correct text.</CHG>



Ref.: Standards – ST.32 page: 3.32.110

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# CLAIMS

1. A compound of the following general formula [I]

$$O = P \longrightarrow O \qquad R^{-1}$$

$$R^{\frac{1}{2}}$$

# (wherein I represents

 $R^1$ ; represents hydrogen, hydroxy, acyloxy or alkoxy;  $R^2$  represents alkyl; and  $R^3$ ; represents hydrogen, halogen, hydroxy or alkyl.

2. A compound according to claim 1, which compound is optically pure.



Ref.: Standards – ST.32 page: 3.32.111

<DP N=10>

<SDOCL LA=E>

[Start of sub-document Claims. In the EPO Claims must be numbered in one style only. Therefore ordered lists are used and on processing <LI>s become standard arabic numerals. Note that paragraph numbering would normally not be used for claims since each claim is numbered.]

<OL>

<LI>A compound of the following general formula [I]

<EMI ID='10.1' HE=38 WI=85 LX=583 LY=528 TI=CF>

[Here we have an embedded image within the text since there is, at the moment, no coding for chemical structures. The image is scanned and stored in CCITT Group 4 format. The application number and the EMI ID act as a unique reference to the image. Indexing is according to WIPO <u>ST.33</u> where the image parameters should be the same as in the EMI tag above.]

(wherein I represents

<EMI ID='10.2' HE=42 WI=105 LX=627 LY=1202 TI=CF>

R<SP>1</SP> represents hydrogen, hydroxy, acyloxy or alkoxy; R<SP>2</SP> represents alkyl; and R<SP>3</SP> represents hydrogen, halogen, hydroxy or alkyl.

<LI>A compound according to claim 1, which compound is optically pure.

</OL>

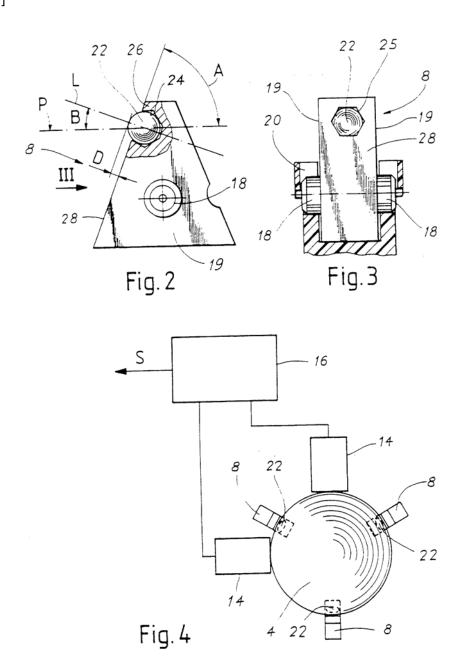
</SDOCL>



Ref.: Standards – ST.32 page: 3.32.112

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# [DRAWINGS]





Ref.: Standards – ST.32 page: 3.32.113

<DP N=11> <SDODR LA=E>

[Start of sub-document Drawings. Note that the page of drawings consists of more than one figure. They have been scanned as one image - this is an office dependent decision; there are advantages and disadvantages to this approach - as opposed to scanning and indexing each individual drawing. In this example figure number two is extracted, re-scaled and used as the abstract drawing on the title page].

<EMI ID='11.1' HE=224 WI=157 LX=254 LY=430 TI=DR> </SDODR>



Ref.: Standards – ST.32 page: 3.32.114



# Office européen RAPPORT DE RECHERCHE EUROPEENNE Numero de la demande

EP 92 10 2108

atégorie	Citation du document avec in des parties pert	dication, en cas de besoin,	Revendication concernée	CLASSEMENT DE LA DEMANDE (Int. Cl.5)
-			1	G06K11/18
	US-A-4 562 347 (D.A. HO * colonne 2, ligne 53 -	colonno 4 licano 45:	1.	G05G9/053
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Ref.: Standards – ST.32 page: 3.32.115

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</PATDOC>

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[Number of patent]
[Country of cited patent]
[Kind of patent]
[Patentee, could also be tagged
<FNM>D.A.<SNM>HOVEY<SFX>ET AL]

[Relevant passages in the patent]
[End of patent citation]
[Category of cited document, here 'technological background']
[Relevant to claim one]
[Start of next patent citation]

[Date of completion of report]

[Place of search]
[Search report examiner]

[IPC classification of technical fields searched]

[End of search report] [End of patent document]

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