

The REG202_PROC_STEP_TEXT Table

Welcome to the `REG202_PROC_STEP_TEXT` table overview. This table contains detailed textual information related to procedural steps from the `REG201_PROC_STEP` table, offering additional context and explanations for each step. These texts provide valuable insights into the nature of procedural steps throughout the patent application process, helping to clarify the status or actions involved. Each record captures a specific text linked to a procedural step, along with its type, which defines the role or category of the text.

While `REG201_PROC_STEP` records structured data on procedural actions, the `REG202_PROC_STEP_TEXT` table enriches this information with explanatory texts that help users interpret the significance of each step. Each record is categorised by the `STEP_TEXT_TYPE` attribute, which defines the role of the text, whether it describes the step itself, references a particular year, or details extension states. This added layer of context is particularly valuable for analysts, researchers, and policymakers who need deeper insights beyond numeric codes and classifications. By integrating procedural data with descriptive text, the table enhances transparency and facilitates a more comprehensive understanding of the patent process.

```
In [4]: from epo.tipdata.patstat import PatstatClient
        from epo.tipdata.patstat.database.models import REG201_PROC_STEP,
        REG101_APPLN, REG202_PROC_STEP_TEXT
        from sqlalchemy import select, func, case, select, and_
        patstat = PatstatClient(env='PROD')
        db = patstat.orm()
```

Key Fields in the REG202_PROC_STEP_TEXT Table

ID (Primary Key)

The ID field serves as a technical identifier that uniquely connects patent applications across various tables.

STEP_ID (Primary Key)

The STEP_ID is a unique identifier assigned to each procedural step within the patent application process. It is present in multiple tables, including REG201_PROC_STEP , REG202_PROC_STEP_TEXT , REG203_PROC_STEP_DATE , REG721_PROC_STEP , REG722_PROC_STEP_TEXT , and REG723_PROC_STEP_DATE . This attribute serves as a key reference for identifying and linking procedural steps across various datasets. With a domain of up to 30 characters, it ensures precise tracking and organization of procedural events associated with patent applications.

STEP_TEXT

The STEP_TEXT attribute represents the text associated with a procedural step in the patent process. It provides a description or explanation related to the specific procedural step identified in the REG201_PROC_STEP table. This text can offer additional details or context about the step, helping users better understand its significance and actions. The field can contain up to approximately 300 characters, and if no description is available, the value is left as an empty string.

STEP_TEXT_TYPE (Primary Key)

The STEP_TEXT_TYPE attribute defines the type of text associated with a procedural step. It categorizes the text in terms of its content or purpose, such as a description of the step, specific year references, or details about extension states. The text type helps users identify the context in which the text is used. The field allows up to 30 characters and does not have a default value. Examples of possible text types include “STEP_DESCRIPTION,” “YEAR,” and “Extension states.”

```
In [5]: q = db.query(
    REG202_PROC_STEP_TEXT.id,
    REG202_PROC_STEP_TEXT.step_id,
    REG202_PROC_STEP_TEXT.step_text,
    REG202_PROC_STEP_TEXT.step_text_type,
    REG201_PROC_STEP.step_phase,
    REG201_PROC_STEP.step_result,
    REG201_PROC_STEP.step_country,
    REG201_PROC_STEP.time_limit
).join(
    REG201_PROC_STEP,
    REG202_PROC_STEP_TEXT.step_id == REG201_PROC_STEP.step_id
).limit(1000)

res = patstat.df(q)
res
```

Out [5]:

	id	step_id	step_text	step_text_type	step_phase	step
0	15759285	STEP_ISAT_3066343	International searching authority	STEP_DESCRIPTION	REGEN	
1	10719527	STEP_ABEX_10361570	Amendments	STEP_DESCRIPTION	EXAMN	
2	19169723	STEP_PROL_4132942	en	procedure language	EXAMN	
3	93915644	STEP_PFEE_3778507	Penalty fee Rule 85a EPC 1973	STEP_DESCRIPTION	EXAMN	
4	4774073	STEP_1105006	Payment of the first designation fee	STEP_DESCRIPTION	REGEN	
...
995	21199972	STEP_PROL_4892796	Language of the procedure	STEP_DESCRIPTION	EXAMN	
996	99956632	RENEWAL_14433776	Renewal fee payment	STEP_DESCRIPTION	UNDEF	
997	12806105	RENEWAL_6631784	05	YEAR	UNDEF	
998	21859964	STEP_PROL_4873544	Language of the procedure	STEP_DESCRIPTION	EXAMN	
999	3765201	RENEWAL_1985165	Renewal fee payment	STEP_DESCRIPTION	UNDEF	

1000 rows × 8 columns

We can show the list of distinct step text types.

```
In [6]: q = db.query(  
    REG202_PROC_STEP_TEXT.step_text_type  
).distinct()  
  
res = patstat.df(q)  
res
```

Out[6]:

	step_text_type
0	Extension states
1	procedure language
2	approval
3	YEAR
4	Validation states
5	STEP_IDENTIFICATION
6	COUNTRY
7	sequence-number
8	Kind of amendment
9	APPLICATION_NUMBER
10	STEP_DESCRIPTION
11	kind of refusal
12	searching authority
13	STEP_DESCRIPTION_NAME

In []: