ANGELIC II Domain Model: Inventive Step in European Patent Law

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1 Introduction

This document presents an ANGELIC Domain Model (ADM) for the legal domain of assessing the inventive step of a patent, based on the European Patent Office (EPO) Guidelines. The model is constructed following the ANGELIC II methodology, which structures legal knowledge into a hierarchy of issues, abstract factors, and base-level factors. This work is based on the ANGELIC II paper (Atkinson & Bench-Capon 2023) and on a handcrafted document of extensive defeasible inference rules for the domain. Gemini-2.5-pro was used to help create the questions for instantiating the blfs, and to help with assigning the values to the blfs and abstract factors.

2 Values Ideas

- Legal Certainty (LC) The public, including competitors, needs to know what is patented and what is not so they can innovate freely without unknowingly infringing. This value requires that patent claims are clear, supported by the description, and that the technical contribution is reproducible.
 - Purpose: To provide a clear and predictable legal framework for third parties, allowing them to understand the scope of a patent and the state of the art.
 - Promoted by: Rules concerning Sufficiency of Disclosure (AF12) and the reproducibility of the technical effect. For example, denying an inventive step because the claimed effect is not reproducible (¬F37) promotes legal certainty because the public is not prevented from using an invention that doesn't work as claimed.; GPT-5 Legal Certainty ensuring patents are granted only when claims are clear, reproducible, and supported (links to sufficiency of disclosure, reproducibility, claim scope).
- Upholding Patent Quality (UPQ) This is the foundational value. The patent system's integrity relies on granting patents only for genuine, non-obvious inventions. This value is promoted by rules that prevent trivial or straightforward developments from being patented.
 - Purpose: To ensure patents are only granted for inventions that represent a meaningful technical advance over the prior art.
 - Promoted by: Rules that establish obviousness, such as those for Known Measures (AF2), Obvious Combination (AF3), and Obvious Selection (AF4). For example, finding that an invention is just an obvious combination of known parts upholds the quality of the patent system by denying a patent.
- Reliability requiring that inventions actually work as claimed, reproducibly (links to F36 credible effect, F37 reproducible, sufficiency).
- Fair Competition preventing monopolies on trivial, obvious, or non-technical advances (links to obviousness tests, known measures, simple extrapolation).
- Technical Progress rewarding inventions that make a real technical contribution beyond the state of the art (links to credible technical effect, synergy, problem-solution).

3 Main Analysis: Inventive Step

This section details the primary logical flow for determining if an invention involves an inventive step, assuming the perspective of the "Skilled Person" defined above.

3.1 Issue Table

The Issue Table contains the highest-level legal questions for the main analysis. NEED TO DO

Table 1: Issue Table for Inventive Step

ID	Issue Children Acceptance Conditions		Sour	ce	
T-1	InvStep	I2, F29, F27, F28, I3	REJECT IF F29	r43,	r44
I1			REJECT IF I2	[p.	21]
			ACCEPT IF F27 AND F28		
			AND I3		
			REJECT		
	Obvious	F55, AF12	ACCEPT IF F55	r42	[p.
I2			ACCEPT IF AF12	21]	
			REJECT		
	Novelty	F25	ACCEPT IF F25	r9	[p.
I3			REJECT	6]	

3.2 Abstract Factor Table: Skilled Person

Table 2: Abstract Factors for Foundational Concepts

ID	Factor	Children	Acceptance Conditions	Source
1.774	Person	F5, F6, F7	ACCEPT IF F5	rl [p. 3]
AF1			ACCEPT IF F6	
			ACCEPT IF F7	
			REJECT	
1.00	SkilledPerson	F1, F2, F3, F4, AF1	ACCEPT IF F1 AND F2 AND	rl [p. 3]
AF2			F3 AND F4 AND AF1	
			REJECT	
4.700	CommonKnowledge	F8, AF4	ACCEPT IF AF4	r2 [p. 3]
AF3			REJECT IF F8	
			ACCEPT	
1.57	DocumentaryEvidence	F9, F10, F11, F12	REJECT IF F9	r3 [p. 3]
AF4			ACCEPT IF F10	
			ACCEPT IF F11	
			ACCEPT IF F12	
			REJECT	

3.3 Abstract Factor Table: Closest Prior Art

Table 3: Abstract Factors for Main Analysis

ID	Factor	Children	Acceptance Conditions	Source
1.55	RelevantPriorArt	F13, F14, F15, F16	ACCEPT IF F15	r4 [p. 4]
AF5			ACCEPT IF F16	
			ACCEPT IF F13	
			ACCEPT IF F14	
			REJECT	

Table 3 – continued from previous page

ID	Factor	Children	Acceptance Conditions	Source
1.70	ClosestPriorArt	AF5, F19, F20, F21	ACCEPT IF AF5 AND F19	r5 [p. 5]
AF6			AND F20 AND F21	
			REJECT	
1.00	CombinationDocuments	F22, F17, F18, F23,	ACCEPT IF F22 AND F17	r6 [p. 5]
AF7		F24	AND F23 AND F24	
			ACCEPT IF F22 AND F18	
			AND F23 AND F24	
			REJECT	
ATO	ClosestPriorArtDocuments	AF6, AF7	ACCEPT IF AF6	r7 [p. 6]
AF8			ACCEPT IF AF7	
			REJECT	

3.4 Abstract Factor Table: Problem-Solution Approach

Table 4: Abstract Factors for Main Analysis

ID	Factor	Children	Acceptance Conditions	Source
A T10	Combination	F28, F45, F46	ACCEPT IF F28 AND F45	r22 [p. 12]
AF9			AND F46	
			REJECT	
A T-10	PartialProblems	AF9	REJECT IF AF9	r25, r26 [p.
AF10			ACCEPT	13, p. 14]
AF11	CandidateOTP	AF9, AF10	ACCEPT IF AF9	r24, r26 [p.
			ACCEPT IF AF10	13, p. 14]
			REJECT	

3.5 Abstract Factor Table: Secondary Indicators

Table 5: Abstract Factors for Main Analysis

ID	Factor	Children	Acceptance Conditions	Source	
A T10	SecondaryIndicator	AF13, AF14, AF15,	ACCEPT IF AF13	r35 [p.	18]
AF12		AF17, F75, AF19	ACCEPT IF AF14		
			ACCEPT IF AF15		
			ACCEPT IF AF17		
			ACCEPT IF F75		
			ACCEPT IF AF19		
			REJECT		
	PredictableDisadvantage	F59, F60, F61	REJECT IF F61	r32 [p.	17]
AF13			ACCEPT IF F59 AND F60		
			REJECT		
A T3 4	BioTechObvious	F63, F62, F67, F68	REJECT IF F62	r33 [p.	17]
AF14			ACCEPT IF F63 AND F67		
			ACCEPT IF F63 AND F68		
			REJECT		
1.515	AntibodyObvious	AF16, F65, F66	REJECT IF F66	r34 [p.	17]
AF15			ACCEPT IF AF16 AND F65		
			REJECT		
1.51.0	SubjectMatterAntibody	F63, F64	ACCEPT IF F63 AND F64	r34 [p.	17]
AF16			REJECT		

Table 5 – continued from previous page

ID	Factor	Children	Acceptance Conditions	Source
1.7.5	KnownMeasures	F69, F70, AF18	ACCEPT IF F69	r36, r37, r39
AF17			ACCEPT IF F70	[p. 18,
			ACCEPT IF AF18	p.19]
			REJECT	
1.540	KnownUsage	F71, F72, F73, F74	ACCEPT IF F71	r38 [p. 19]
AF18			ACCEPT IF F72	
			ACCEPT IF F73 AND F74	
			REJECT	
A.E.4.0	ObviousSelection	F76, F77, F78, F79	ACCEPT IF F76	r41 [p. 20]
AF19			ACCEPT IF F77	
			ACCEPT IF F78	
			ACCEPT IF F79	
			REJECT	

3.6 Sub-Model 1 - Technical Contributions

Table 6: Abstract Factors for Sub-Model 1

ID	Factor	Children	Acceptance Conditions	Source
т.,	FeatureReliableTechnical	AF23, F42, F43,	REJECT IF AF21	r10 [p. 7]
I4	Effect	AF22, AF20, AF21	REJECT IF AF22	
			REJECT IF AF20	
			ACCEPT IF AF23 AND F42	
			AND F43	
			REJECT	
	ImpreciseUnexpectedEffect	F56, F57	REJECT IF F57	r10 [p. 7]
AF20			ACCEPT IF F56	
			REJECT	
	SufficiencyOfDisclosureIss	F43, F44	REJECT IF F43	r19[p.10]
AF21	ue		ACCEPT IF F44	_
			REJECT	
	Bonus Effect	AF23, F56, F58	ACCEPT IF AF23 AND F56	r20 [p. 11]
AF22			AND F58	_
			REJECT	
	FeatureTechnicalContribu	AF24, AF26, AF27	ACCEPT IF AF24	r10 [p. 7]
AF23	tion		ACCEPT IF AF26	_
			ACCEPT IF AF27	
			REJECT	
	NormalTechnicalContribu	F30, F31, F32, AF25	REJECT IF F32	r10 [p. 7]
AF24	tion		REJECT IF AF25	
			ACCEPT IF F30	
			ACCEPT IF F31	
	ExcludedField	F33, F34, F35, F36	ACCEPT IF F33	r11 [p. 7]
AF25			ACCEPT IF F34	_
			ACCEPT IF F35	
			ACCEPT IF F36	
			REJECT	
	ComputationalContributio	F33, F41, F34, F38	ACCEPT IF F33 AND F41	r12 [p. 7]
AF26	n		ACCEPT IF F33 AND F37	
			ACCEPT IF F34 AND F37	
			ACCEPT IF F34 AND F38	
			REJECT	

Table 6 – continued from previous page

ID	Factor	Children	Acceptance Conditions	Source	
AF27	MathematicalContribution	F35, AF28,F41	ACCEPT IF F35 AND AF28	r13 [p.	8]
			ACCEPT IF F35 AND F41		
			REJECT		
AF28	AppliedInField	F39, F40	ACCEPT IF F39 AND F40	r14 [p.	8]
			REJECT		

3.7 Sub-Model 2 - Objective Technical Problem

Table 7: Abstract Factors for Sub-Model 2

ID	Factor	Children	Acceptance Conditions	Source	
TF	WouldHaveArrived	AF29, F53, F54	ACCEPT IF F53 AND AF29	r30 [p.	16]
I5			ACCEPT IF F54 AND AF29		
			REJECT		
4.500	ObjectiveTechnicalProble	AF31, AF30	ACCEPT IF AF31	r29 [p.	15]
AF29	mFormulation		ACCEPT IF F26		
			REJECT		
1.000	ConstrainedProblem	AF31, F26	ACCEPT IF AF31 AND F26	r28 [p.	15]
AF30			REJECT		
1.004	WellFormed	F51, F52, AF32	REJECT IF F52	r27 [p.	14]
AF31			ACCEPT IF F51 AND AF32		
			REJECT		
A T-0.0	BasicFormulation	F48, F49, F50	ACCEPT IF F48 AND F49	r24, r26	[p.
AF32			AND F50	13, p.	14]
			REJECT		

4 Base-Level Factor Table & Question List

4.1 Base-Level Factor Table

Table 8: Base-Level Factor Table

ID	Factor	Value	Dimension	Required Answer	Dependencies
F1	SkilledIn			Q6(a)	AF5
F2	Average			Q7(a)	
F3	Aware			Q8(a)	AF3
F4	Access			Q9(a)	AF5
F5	Individual			Q10(a)	
F6	ResearchTeam			Q10(b)	
F7	ProductionTeam			Q10(c)	
F8	Contested			Q4(a)	
F9	SinglePublication			Q5(d)	
F10	Textbook			Q5(a)	
F11	TechnicalSurvey			Q5(b)	

Table 8 – continued from previous page

ID	Factor	Value	$\frac{\text{tinued from p}}{\text{Dimension}}$		Dependencies
F12	PublicationNewField			Q5(c)	•
F12 F13	SimilarPurpose			Q2(a)	
F14	SimilarEffect			Q3(a)	
F15	SameField			Q4(a)	
F16	SimilarField			Q4(b)	
F17	SameFieldCPA			Q14(a)	AF6
F18	SimilarFieldCPA			Q14(b)	AF6
F19	SingleReference			Q11(a)	
F20	MinModifications			Q12(a)	
F21	AssessedBy			Q12(a)	AF2
F22	CombinationAttempt			Q13(a)	AF6
F23	CombinationMotive			Q15(a)	AF6, ??
F24	BasisToAssociate			Q16(a)	AF6, ??
F25	DistinguishingFeatu res			length of DistinguishingFeaturesList	AF8
F26	NonTechnicalContri bution			accept if factor FeatureTechnical-Contribution not present in ≥ 1 submodel instantiation	(Sub-Model 1: 6)
F27	TechnicalContributi on			accept if factor Feature Technical-Contribution present in ≥ 1 sub-model instantiation	(Sub-Model 1: 6)
F28	ReliableTechnicalEff ect			accept if accept root in ≥ 1 sub-model instantiation	(Sub-Model 1: 6)
F29	SufficiencyOfDisclos ure			accept if factor SufficiencyOfDisclosureIssue present in ≥ 1 sub-model instantiation	(Sub-Model 1: 6)
F30	IndependentContrib ution			Q17(a)	AF2
F31	CombinationContrib ution			Q18(a)	AF2
F32	CircumventTechPro blem			Q21(a)	
F33	ComputerSimulation			Q20(a)	
F34	NumericalData			Q20(b)	
F35	MathematicalMetho d			Q20(c)	

Table 8 – continued from previous page

ID	Factor	Value	Dimension	Required Answer	Dependencies
Fine	OtherExlusions			Q20(d)	
F36	IntendedTechnicalU			Q23(a)	
F37	se			Q23(a)	
F38	TechUseSpecified			Q24(a)	
F39	SpecificPurpose			Q26(a)	
F40	FunctionallyLimited			Q27(a)	
F41	TechnicalAdaptation			Q22(a)	
F42	Credible			Q31(a,c)	AF23
F43	Reproducible			Q31(b,c)	AF23
F44	ClaimContainsEffect			Q32(a)	
F45	FunctionalInteraction			Q34(a)	F28
F46	Synergy			Q33(a)	F28
F47	ObjectiveTechnical Problem			accept if factor ObjectiveTechnical- ProblemFormulation present in ≥ 1 sub-model 2 instan- tiation	(Sub-Model 2: 7), AF11
F48	Encompassed			Q35(a)	AF11
F49	Embodied			Q36(a)	AF11
F50	ScopeOfClaim			Q37(a)	AF11
F51	WrittenFormulation			Q38(a)	AF32,
F52	Hindsight			Q39(a)	AF32, AF2
F53	WouldModify			Q40(b)	AF2, AF5, AF6, AF29
F54	WouldAdapt			Q40(a)	AF2, AF5, AF6, AF29
F55	OTPObvious			accept if reject for sub-model 2 is < 1	(Sub-Model 2: 7)
F56	UnexpectedEffect			Q28(a)	AF23
F57	PreciseTerms			Q29(a)	AF23
F58	OneWayStreet			Q30(a)	AF23, AF2, AF6
F59	DisadvantageousMod			Q40(a)	AF6
F60	Foreseeable			Q41(a)	AF2
F61	UnexpectedAdvanta ge			Q42(a)	AF2

Table 8 – continued from previous page

ID	Factor	Value S – cont	Dimension	Required Answer	Dependencies
Fee	InventionUnexpecte			accept if factor	(Sub-Model 1: 6)
F62	dEffect			UnexpectedEffect	
				present in ≥ 1	
				sub-model 1 instan-	
				tiation	
F63	BioTech			Q43(a)	
F64	Antibody			Q44(a)	
F65	KnownTechnique			Q47(a)	AF5
Figs	OvercomeTechDiffic			Q48(a)	
F66	ulty				
F67	PredictableResults			Q45(a)	
F68	ReasonableSuccess			Q46(a)	
F69	GapFilled			Q49(a)	AF5, AF2
F70	WellKnownEquivale nt			Q50(a)	AF5
F71	KnownProperties			Q51(a)	
F72	AnalogousUse			Q52(a)	
F73	KnownDevice			Q53(a)	
F74	AnalogousSubstituti on			Q55(a)	
F75	ObviousCombination			Q54(a)	F73
F76	ChooseEqualAlterna tives			Q56(a)	
F77	NormalDesignProce dure			Q57(a)	
F78	SimpleExtrapolation			Q58(a)	AF5
F79	ChemicalSelection			Q59(a)	

4.2 Question List

1. Relevant Prior Art

These questions establish the relevant prior art to the invention.

- Q1 Do the candidate relevant prior art documents have a similar purpose to the invention?
- (a) They have the same or a very similar purpose.
- (b) They have a different purpose.
- Q2 Do the candidate relevant prior art documents have a similar purpose to the invention?
- (a) They have the same or a very similar purpose.
- (b) They have a different purpose.
- Q3 Are there similar technical effects between the candidate relevant prior art documents and the invention?
- (a) It produces a similar technical effect.
- (b) It produces a different technical effect.

- Q4 What is the relationship between the candidate relevant prior art documents and the invention's technical field?
- (a) It is from the exact same technical field.
- (b) It is from a closely related or analogous technical field.
- (c) It is from an unrelated technical field.

2. Common General Knowledge (CGK)

These questions establish the source and status of the background knowledge in the field.

- Q4 Is the assertion of what constitutes Common General Knowledge being contested?
- (a) Yes
- (b) No
- Q5 (if Q4(a)) What is the primary source of evidence cited for the CGK?
- (a) A standard textbook
- (b) A broad technical survey
- (c) A single publication in a very new or rapidly evolving field.
- (d) A single publication in an established field.
- (e) No documentary evidence is provided.
- (f) Other

3. The Skilled Person

These questions define the person who is skilled in the art. This a hypothetical concept rather than a real person, nevertheless this must be established and reasoned through.

- Q6 Is the practitioner skilled in the relevant technical field of the prior art?
- (a) Yes
- (b) No
- Q7 Does the practitioner possess average knowledge and ability for that field?
- (a) Yes
- (b) No
- Q8 Is the practitioner presumed to be aware of the common general knowledge in the field?
- (a) Yes
- (b) No
- Q9 Does the practitioner have access to all documents comprising the state of the art?
- (a) Yes
- (b) No
- Q10 What is the nature of this 'skilled person'?
- (a) An individual practitioner
- (b) A research team
- (c) A production or manufacturing team

4. The Closest Prior Art

These questions help to identify the closest prior art (CPA) documents

- Q11 Is the closest prior art document a single reference?
- (a) Yes
- (b) No
- Q12 Does the closest prior art document require minimal modifications to the invention as assessed from the perspective of the skilled person??
- (a) Yes
- (b) No
- Q13 Is there a reason to combine other documents with the CPA to attempt to demonstrate obviousness?
- (a) Yes
- (b) No
- Q14 (if Q13(a)) How are the other documents to be combined related to the CPA's technical field?
- (a) They are from the same technical field.
- (b) They are from a similar technical field.
- (c) They are from an unrelated field.
- Q15 (if Q13(a)) Would the skilled person have a clear and direct motive to combine these specific documents?
- (a) Yes
- (b) No
- Q16 (if Q13(a)) Is there a reasonable basis for the skilled person to associate these specific documents with one another?
- (a) Yes
- (b) No

5. Technical Contribution & Effect

These questions analyse the nature of the invention's technical differences from the prior art.

- Q17 Does the feature make an independent technical contribution to the invention?
- (a) Yes
- (b) No
- Q18 Does the feature make a contribution in combination with other technical features to the invention?
- (a) Yes
- (b) No
- Q19 Does the feature make a contribution in combination with other technical features to the invention?
- (a) Yes
- (b) No
- Q20 What is the primary nature of the distinguishing feature?
- (a) A computer simulation.
- (b) The processing of numerical data.
- (c) A mathematical method or algorithm.
- (d) Other excluded field
- (e) None of the above
- Q21 Is the feature a technical implementation of a non-technical method i.e. game rules or a business method, and does it circumvent the technical problem rather than addressing it in an inherently technical way?

- (a) Yes
- (b) No

Q22 Is the feature a specific technical adaptation which is specific for that implementation in that its design is motivated by technical considerations relating to the internal functioning of the computer system or network.

- (a) Yes
- (b) No

Q23 (If Q20(a) or Q20(b)) Is there an intended use of the data resulting from the feature?

- (a) Yes
- (b) No

Q24 (If Yes Q23) Is the potential technical effect of the numerical data either explicitly or implicitly specified in the claim?

- (a) Yes
- (b) No

Q25 What gives this feature its technical character? (select all that apply)

- (a) intended technical use
- (b) specific purpose
- (c) functionally limited

Q26 Does the technical contribution have a specific technical purpose i.e. produces a technical effect serving a technical purpose. Not merely a 'generic' purpose i.e. "controlling a technical system".

- (a) Yes
- (b) No

Q27 Is the claim functionally limited to the technical purpose stated either explicitly or implicitly?

- (a) Yes
- (b) No

Q28 Is the technical effect unexpected or surprising?

- (a) Yes
- (b) No

Q29 (If yes to Q28) Is this unexpected effect described in precise, measurable terms?

- (a) Yes
- (b) No

Q30 (If yes to Q28) Is the unexpected effect a result of a lack of alternatives creating a 'one-way street' situation? I.e. for the skilled person to achieve the technical effect in question from the closest prior art, they would not have to choose from a range of possibilities, because there is only one-way to do x thing, and that would result in unexpected property y.

- (a) Yes
- (b) No

Q31 Are the technical effects credible and/or reproducible?

- (a) Credible
- (b) Reproducible
- (c) Both
- (d) Neither

Q32 (if Q31(a,d) Does the claim contain the non-reproducible effect i.e. if the claim says the invention achieve effect E, but this is not reproducible.

- (a) Yes
- (b) No

Q33 How do the invention's features create the technical effect?

(a) As a synergistic combination (effect is greater than the sum of parts).

- (b) As a simple aggregation of independent effects.
- Q34 (if Q33(a)) Is the synergistic combination achieved through through a functional interaction between features?
- (a) Yes
- (b) No

6. The Objective Technical Problem

This section covers the establishment and solution of the objective technical problem.

Q35 Would the skilled person, consider the the technical effects identified to be encompassed by the technical teaching?

- (a) Yes
- (b) No

Q36 Would the skilled person, consider the the technical effects identified to be embodied by the same originally disclosed invention?

- (a) Yes
- (b) No

Q37 Are the technical effects achieved across the whole scope of the claim, and is this claim limited in such a way that substantially all embodiments encompassed by the claim show these effects?

- (a) Yes
- (b) No

Q38 Can we construct a written formulation of the objective technical problem?

- (a) Yes
- (b) No

Q39 Has the objective technical problem been formulated in such a way as to refer to matters of which the skilled person would only have become aware by knowledge of the solution claimed?

- (a) Yes
- (b) No

Q40 Would the skilled person have arrived at the proposed invention by adapting or modifying the closest prior art, not simply because they could, but because they the prior art would have provided motivation to do so in the expectation of some improvement or advantage?

- (a) Would have adapted from the prior art
- (b) Would have modified from the prior art
- (c) Neither

7. Common Obviousness Arguments

This section covers standard lines of reasoning used to establish that an invention is obvious.

Q40 Does the invention involve a disadvantageous modification of the prior art?

- (a) Yes
- (b) No

Q41 (if Q40) Was this disadvantageous modification of the prior art foreseeable to the skilled person?

- (a) Yes
- (b) No

Q42 (if Q40) Did the disadvantageous modification result in an unexpected technical advantage?

- (a) Yes
- (b) No

Q43 Is the subject matter of the invention biotech?

- (a) Yes
- (b) No

Q44 (if Q43) Does the subject matter concern antibodies?

- (a) Yes
- (b) No

Q45 (if Q43) Were the results obtained clearly predictable?

- (a) Yes
- (b) No

Q46 (if Q43) Was there a 'reasonable' expectation of success in obtaining the results?

- (a) Yes
- (b) No

Q47 (if Q44) Were the antibodies arrived at exclusively by applying techniques known in the art?

- (a) Yes
- (b) No

Q48 (if Q44) Does the application of the antibodies overcome technical difficulties in generating or manufacturing them?

- (a) Yes
- (b) No

Q49 Does the invention merely fill an obvious gap in an incomplete prior art document which would naturally occur to the skilled person?

- (a) Yes
- (b) No

Q50 Does the invention differ from the prior art in regard to substituting one well-known equivalent for another (e.g., a hydraulic for an electric motor)?

- (a) Yes
- (b) No

Q51 Is the invention merely the new use of known properties of a well-known material i.e. A washing composition containing as detergent, a known compound having the known property of lowering the surface tension of water.

- (a) Yes
- (b) No

Q52 Does the invention just apply a known technique in a closely analogous situation?

- (a) Yes
- (b) No

Q53 Does the invention rely on known devices?

- (a) Yes
- (b) No

Q54 (if Q53(a)) Is the invention a simple juxtaposition of the known devices, with each performing their normal, expected function?

- (a) Yes
- (b) No

Q55 (if Q53(a)) Does the invention rely within a known device, simply substituting in a recently developed material suitable for that use?

- (a) Yes
- (b) No

Q56 Does the invention result from a choice between equally likely alternatives?

- (a) Yes
- (b) No

Q57 Does the invention consist in choosing parameters from a limited range of possibilities arrived at through routine design procedures?

- (a) Yes
- (b) No

Q58 Is the invention a result of a simple, straightforward extrapolation from the known art?

- (a) Yes
- (b) No

Q59 Does the invention just consist in selecting a specific chemical compound or composition from a broad field?

- (a) Yes
- (b) No