

Examination Guidelines for Patentability - Novelty and Inventive Step

Shunsuke YAMAMOTO Examination Standards Office Japan Patent Office 2016.09





- 1. Flowchart of Determining Novelty and Inventive Step
- 2. Novelty
- 3. Inventive Step
 - 3-1. Overview of Inventive Step
 - 3-2. Procedure of evaluating Inventive Step
 - 3-3. Examination Guidelines in JPO

Outline



1. Flowchart of Determining Novelty and Inventive Step

- 2. Novelty
- 3. Inventive Step
 - 3-1. Overview of Inventive Step
 - 3-2. Procedure of evaluating Inventive Step
 - 3-3. Examination Guidelines in JPO

1. Flowchart of Determining Novelty and Inventive Step

PCT guideline 13.08



3

Outline



1. Flowchart of Determining Novelty and Inventive Step

- 2. Novelty
- 3. Inventive Step
 - 3-1. Overview of Inventive Step
 - 3-2. Procedure of evaluating Inventive Step
 - 3-3. Examination Guidelines in JPO





Invention A is not patentable

if it was known to the public before the filing date.







PCT (PCT Guidelines 12.03)

(i) Evaluate the elements of the <u>claimed invention</u>

(ii) Determine if a <u>document</u> under consideration forms part of the "<u>prior art</u>"

(iii) Assess whether each and every element or step of the <u>claimed invention</u> was explicitly or inherently disclosed in combination by the <u>document</u>, to a person skilled in the art, on the date of publication of the <u>document</u>.

2. Novelty

PCT



(i) Evaluate the elements of the claimed invention

In interpreting claims for the consideration of novelty, the examiner should have regard to the guidance given in Interpretation of Claims (PCT Guideline 5.20 to 5.41)

(PCT Guideline 5.20)

Each claim should be read giving the words the ordinary meaning and scope which would be attributed to them by a person skilled in the relevant art, unless in particular cases the description gives the words a special meaning, by explicit definition or otherwise.







(ii) Determine if a document under consideration forms part of the "prior art"



2. Novelty



PCT	•
-----	---

Described in a distributed publication or Publicly available through electric telecommunication lines

Example: Patent gazette, Research paper, Article, Book, Internet Determination is made on the basis of "the matters described in a publication."

Example:

Broadcasting on TV,

Conference presentation

Publicly worked

Publicly known

Example: Being sold in stores Determination is made on the basis of facts.

2. Novelty





Matters defining the cited invention

Determining the identicalness and the difference



If there is a difference, the claimed invention is <u>novel</u>.



Is the claimed invention A novel or not?



Outline



- 1. Flowchart of Determining Novelty and Inventive Step
- 2. Novelty
- 3. Inventive Step
 - 3-1. Overview of Inventive Step
 - 3-2. Procedure of evaluating Inventive Step
 - 3-3. Examination Guidelines in JPO



A claimed invention is considered to involve <u>an inventive step if</u>, having regard to the prior art, <u>it is not obvious to a person skilled in</u> <u>the art</u>. (PCT guideline 13.01)

Who is "a person skilled in the art"?

A hypothetical person having <u>ordinary skill</u> in the art, who is aware of <u>common general knowledge</u> in the art at the relevant date, and has access to everything in the prior art. (PCT guideline 13.11)

What is "obvious"?

The claimed invention is obvious <u>if the person skilled in the art on the</u> <u>relevant date would have been motivated or prompted to realize the</u> <u>claimed invention by substituting, combining, or modifying one or</u> <u>more of those items of prior art</u> with a reasonable likelihood of success.(PCT guideline 13.03, 13.09) **Outline**



- 1. Flowchart of Determining Novelty and Inventive Step
- 2. Novelty
- 3. Inventive Step
 - 3-1. Overview of Inventive Step
 - 3-2. Procedure of evaluating Inventive Step
 - 3-3. Examination Guidelines in JPO



Considering whether or not the claimed invention would have been obvious to the skilled person

In considering whether there is an inventive step as distinct from novelty, it is permissible to combine the teachings of two or more prior art references only where such combination would be obvious to the person skilled in the art.(PCT guideline 13.12)





Examples of Motivation to combine prior art references

- Whether the documents come from <u>similar or neighboring</u> <u>technical fields</u> and, if not, whether the documents are reasonably <u>pertinent to the particular problem</u> with which the invention was concerned. (PCT guideline 13.12(ii))
- It would, generally speaking, also be obvious to combine the <u>teachings</u> of two documents, one of which contains <u>a clear</u> and unmistakable reference to the other. (PCT guideline 13.13)
- It would normally be obvious to combine with other prior art documents with <u>a well-known text book, or a standard</u> <u>dictionary</u>. (PCT guideline 13.13)



Examples of cases where the claimed invention should be regarded as obvious

- The claimed invention resides in <u>the choice of particular</u> <u>parameters from a limited range of possibilities</u>, and it is clear that these parameters or workable ranges were encompassed by the prior art and could be arrived at by routine trial and error or by the application of normal design procedures.(PCT guideline 13.14(e) (ii)) (e.g., design modification)
- The claimed invention <u>can be arrived at merely by a simple</u> <u>extrapolation in a straightforward way from the known art</u>.(PCT guideline 13.14(e) (iii)) (e.g., range of number)
- The claimed invention is <u>merely a juxtaposition of features, that</u> <u>is, there is no functional relationship between the features</u>.(PCT guideline 13.05) (e.g., simple aggregation)

Outline



- 1. Flowchart of Determining Novelty and Inventive Step
- 2. Novelty
- 3. Inventive Step
 - 3-1. Overview of Inventive Step
 - 3-2. Procedure of evaluating Inventive Step
 - 3-3. Examination Guidelines in JPO



Excluded from the

subject to be

granted

Art. 29(2): Inventive Step

Subject matter which a person skilled in the art would have easily made

A person skilled in the art (to which the invention pertains)

means a hypothetical person who meets all the following conditions:

- who has the common general knowledge in the technical field of the claimed invention;
- who is able to use ordinary technical means for R&D;
- who is able to exercise ordinary creativity, such as selection of materials, design modifications; and
- who is able to comprehend all the matter in the state of the art in the technical field, of the claimed invention, and relevant to problems to be solved by the invention.



Determination of Inventive Step

Determining whether a person skilled in the art would easily arrive at the claimed invention based on the prior art

It is determined after acquiring knowledge of claimed inventions. Thus, the examiner should take note to avoid hindsight as follows:

- assuming that a person skilled in the art would have easily arrived at the claimed invention.
- understanding that a cited invention is approximate to the claimed invention.

Primary prior art

Do NOT regard the combination of two or more independent pieces of prior art as the primary prior art. Claimed subject matter

- Primary prior art: generally, an art which is same as or close to the claimed invention from the aspect of technical field or problem to be solved
 - The primary prior art of which technical field or problem to be solved is considerably different from that of the claimed invention is likely to make the reasoning difficult.
 - The fact that the problem to be solved is novel and inconceivable by a person skilled in the art may be a factor in support of the existence of an inventive step.



Part III, Chapter 2, Section 2, 2.&3. In Examination Guidelines

Reasoning

Facts in support of the non-existence of an inventive step Facts in support of the existence of an inventive step

Comprehensively assessed

Facts in support of the <u>non-existence</u> of an inventive step

1. Motivation for applying other prior arts to primary prior art:

- (1) relation of technical fields;
- (2) similarity of problems to be solved;
- (3) similarity of operations or functions; or
- (4) suggestions shown in the content of the prior art
- 2. Design variation of primary prior art
- 3. Mere aggregation of prior arts

Facts in support of the

existence of an inventive step

1. Advantageous effects

2. Obstructive factors

Example: It is contrary to the purpose of the primary prior art to apply other prior art thereto.



Facts in support of the <u>non-existence</u> of an inventive step

1. Motivation for applying secondary prior arts to primary prior art

Would it be reasoned to apply secondary prior arts to the primary prior art?

Comprehensively consider the following points of views, noting that it is not always possible to determine by paying attention to only one of them: (1) relation of technical fields; (2) similarity of problems to be solved; (3) similarity of operations or functions; and (4) suggestions shown in the content of prior arts

- Relation and similarity between the primary prior art and secondary prior arts should been determined.
- ✓ Applying secondary prior arts to the primary one includes the application with design variation



1. Motivation for applying secondary prior arts to primary prior art

(1) Relation of technical fields

 The examiner should consider not only the relation of technical fields, but also other points of view.

Example:

Primary prior art

A telephone device, wherein items in the contacts are sorted according to their importance assigned by the user

Secondary prior art

A facsimile device, wherein items in the contacts are sorted according to the frequency of communications.



Claimed subject matter A telephone device, wherein items in the contacts are sorted according to the frequency of communications.

Considered similar because both of them comprise a communication device.

* Determined that they share the concept of providing a device making it easier for the users to dial.

 \Rightarrow Problems, and operations or functions are also taken into account.



1. Motivation for applying secondary prior arts to primary prior art

(2) Similarity of problems to be solved

- Even though the problems are obvious or easily conceivable for a person skilled in the art, "similarity of problems" may be recognized.
- It may be different from the problem solved by the invention.

Example:

Primary prior art

A plastic bottle, wherein a silicon oxide film is formed on its surface

Secondary prior art

A sealed vessel, wherein a hard carbon film is formed its surface



Focusing on the film coating for enhancing gas barrier properties



1. Motivation for applying secondary prior arts to primary prior art

(3) Similarity of operations or functions

Example:



Focusing on cleansing the cylinder of the printing device by pressing the cleansing sheet thereagainst.



1. Motivation for applying secondary prior arts to primary prior art

(4) Suggestions shown in the content of the prior art

 Suggestions shown in a prior art with regard to applying a secondary prior art to the primary prior art may strongly motivate a person skilled in the art to derive the claimed subject matter by applying the secondary prior art to the primary prior art.

Example:





Facts in support of the non-existence of an inventive step

2. Design variation, etc.



3. Mere aggregation of prior arts





Facts in support of the <u>existence</u> of an inventive step

1. Advantageous effects over prior art

Where effects of the claimed subject matter satisfies following conditions and exceed what is predictable based on the state of the art:

different from that of prior art; or
same nature but significantly superior,



The examiner should consider the effects argued and proved in the written argument.

The examiner should not consider effects which are neither stated in the description nor able to speculated from the statements in the description, even if such effects are stated in the written argument.



Facts in support of the existence of an inventive step

2. Obstructive factors



<Example cases of such factors>

- when applying the secondary prior art to the primary prior art is contrary to the purpose of the primary prior art;
- when applying the secondary prior art makes the primary prior art unfunctional;
- when the application of the secondary prior art is excluded and unable to be adopted by the primary prior art; or
- when a publication discloses that the secondary prior art and other embodiments and that the secondary prior art is inferior to the other embodiments in respect to operations and effects, and thus a person skilled in the art would not apply that prior art to the primary prior art.



- Useful Links:
 - Examination Guidelines for Patent and Utility Model in Japan <u>https://www.jpo.go.jp/tetuzuki_e/t_tokkyo_e/1312-002_e.htm</u>
 - Outline of the Examination Guidelines for Patent and Utility Model <u>https://www.jpo.go.jp/tetuzuki_e/t_tokkyo_e/outline_guideline_patents.htm</u>
 - Examination Handbook for Patent and Utility Model in Japan <u>https://www.jpo.go.jp/tetuzuki_e/t_tokkyo_e/handbook_sinsa_e.htm</u>
 - Handbook for PCT International Search and Preliminary Examination in the JPO <u>https://www.jpo.go.jp/tetuzuki_e/t_tokkyo_e/pct_handbook_e.htm</u>

Thank you!