

Title	特許知識を活用した技術アイデアの構成法に関する研究
Author(s)	牧野, 逸夫
Citation	
Issue Date	2010-03
Type	Thesis or Dissertation
Text version	author
URL	http://hdl.handle.net/10119/8891
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An Approach for Forming Technological Ideas Utilizing Patent Knowledge and Information

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March 2010

Keywords: technological idea, invention, combination, structuring, chart, knowledge, patent

An approach is proposed for forming technological ideas using patent knowledge and information. Some of the technological ideas will be improved inventions or new uses of products, or may be a pioneer invention. Searches and consideration have revealed that an invention includes constituent elements combined with each other.

The approach comprises steps for structuring an apparatus, for an appropriate number of times to determine the construction of the current apparatus up to that of the first model thereof respectively. In structuring and determining the indispensable constituent elements of the apparatus, a chart is used having three rows and five columns, for instance, to have fifteen cells into which relevant information is input. This may deepen our understanding of the apparatus so that it is expected to have some combinations with information obtained, for instance, from patent documents to produce practical ideas.

A patent publication includes abstract of invention, detailed description, patent claims and drawings explaining the invention in a hierarchical way, which enables anyone having much or less knowledge to utilize patent publications depending on their objectives. A great number of patent publications have been accumulated in the Patent Offices. There are and also appearing many problems to be solved before us. There are problems which can be solved effectively when a new idea is combined with some technological elements or inventions described in patent publications.