

An Empirical Study on the Patent Early Warning Service System Using Patent Map

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Introduction

With the speeding up of economic globalization, having independent intellectual property rights and knowing how to avoid the risk of intellectual property has become the key determining factor to win in the fierce competition for enterprises and even national. Under the big background of implementing the strategy of intellectual property rights and building an innovative country, patent early warning has gotten high attention of enterprises and related organizations. In this article, patent map, as a basic tool for carrying out patent early warning, will be used to build up patent early warning service system to avoid the risk of intellectual property.

Methodology

We will devise a patent early warning indicator system considering technical field, the trade competitors, potential partners, industry trends, risk prevention and other factors. The patent early warning indicator system mainly includes patent warning on a regular basis and comparing early warning. First, we can give the warning for patent abnormal changes through regular real-time tracking of corporate patents, which is called regular basis warning. Secondly, we can identify the main technological gap between enterprises by comparing the target company with several companies in the same field, due to the gaps could lead to threats, which is called comparing early warning.

In general, regular basis warning mainly takes regular patent retrieval in different units to get the patent, and then tracks the patent information from the number of patents, the number of the same family, the legal status, which achieves the warning for the degree of patents changes. Comparing early warning mainly focus on several companies as the contract objects, combing with its own situation, and then makes the comparative analysis of the situation from the distribution, the technical topics, the technology gaps, the cooperation to identify the main technological gaps between enterprises, and to analyze the cooperation between enterprises, so we can get the degree of risk for itself, which achieves the comparing early warning. We construct quantitative methods for above indicators to ensure that they can draw accurate results. Lastly, we can get the warning plan based on the results of regular basis and comparing early warning. And the plan selects the alarm indicators from the results, which will be combined with the enterprise's own circumstances to make a reasonable and feasible solution. What's more, the plan will be proved to the relevant departments who deal with the police intelligence.

Case Study

Based on the indicator system, we then establish the patent early warning model and analyze new energy and energy conservation and emissions reduction industry patent based on patent map. In this way, we can track the latest trends of research and development, understand the development direction of peers, and realize enterprise's potential risk of infringement. Such patent early warning system can improve enterprise comprehensive ability to prevent and solve the patent dispute, so as to guarantee the profit of enterprise.