

SERPI - SYSTEM FOR REGISTRATION OF INDUSTRIAL PROPERTY PRODUCTION

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ABSTRACT

It can be said that industrial property, is an instrument of technological and industrial policies which regulates negotiations in technological commerce. The access to this institute is essential for researchers and companies. To facilitate the connection between research, business-oriented industrial protection and management, the nucleus of information technology from Santa Catarina - NECATI, allied to other partners, developed a technological tool called system for registration of industrial property production – SERPI. The aim is to congregate, in the same environment, data and efficient and consolidated information to identify institutional problems allowing the planning of investments in a more controlled and efficient research and development. The development of a specific database can generate an important base of strategic information for the most varied sectors, directing investments in a better way and strengthening the industry of Santa Catarina state and Brazil. Through SERPI, there will be a commercial net involving the productive and academic sectors in order to attract more resources and redirect investments towards the domestic market.

KEYWORDS

transference of intellectual production, registration of innovations, business promotion.

1. INTRODUCTION

At present the State of Santa Catarina is one of the main exporting states of the country in the area of technology. The software development industry is in quick ascent, counting on around 1600 companies, concentrated in some municipals. Considered a strategic branch for the economy of any country, the sector of Technology of the Information dispenses with actions that contribute for fortify the regional productive arrangements and local.

In Brazil, many innovative technologies are restricted to the academic area, what makes its identification difficult and creates, consequently, a deficit in the market. This process is due especially to the inexistence of a policy of support to the protection and transference of the intellectual production. Such a panorama is the result of some factors that deserve prominence: the research in Santa Catarina although operating in the content generation, has still got a net that establishes a connection between the idea and the market. A concrete example is the absence of a formal registration of the research before the National Institute of Industrial Property (INPI).

In this way, there is an imbalance in the industrial sector of the State in comparison with technological innovation and, also, the consequent decay of the demand of the products offered to companies comparing with the current needs and the respective sectors. They are all aspects that determine a waste of the financial and intellectual set up capital, apart from the fact that they make the promotion of new investments difficult.

The need to minimize the distance between market and the generating knowledge centers is urgent in the State. Generating knowledge centers in Santa Catarina have a potential for standing out as strong producers of innovative technology - competitiveness factor in the corporative markets and socio-economic development.

Before this, the Institute of Electronic Government, Legal Intelligence and Systems (IJURIS), in accordance with the National Scientific and Technological Development Council (CNPq) and Foundation of Science and Technology of Santa Catarina (FUNCITEC), intends to create the Nucleus of Information Technology of Santa Catarina (NECATI). The aim of the Nucleus is to bring the academic area and the market nearer, and between these and the National Institute of Intellectual Property (INPI) and, in a broader way, with the World-wide Organization of Intellectual Property (OMPI), maximum entity for the promotion of projects of broadening of the specter and the accessibility to Copyright.

This project has a program called software System for Registration of Industrial Property Production – SERPI, which allows the production in Knowledge Information and Management Technology making the generation of reports and statistics possible. Clearly explain the nature of the problem, previous work, purpose, and contribution of the paper.

2. NUCLEUS OF INFORMATION TECHNOLOGY OF SANTA CATARINA – NECATI

To demonstrate the possibility of connection between research, industrial protection and business management, NECATI was divided into two sub nuclei. The first one, Nucleus of Support in Copyright - NAPI, has as a goal to give technical assistance to the technology generating entities, in matters connected to copyright and related questions, making the juridical follow up preliminary to businesses, directing orders of patent, registers of programs, marks, contracts of technology transfer, among others; and even, directs the technologies of Knowledge Management and Information Technology to the Nucleus of Knowledge Management - NUGESCO.

This second nucleus has the aim of fomenting businesses relative to Knowledge Management, with a focus on Information Technologies. Its activities include, initially, a previous analysis of the economic viability and the maturity of the scientific research, identifying the innovative technologies with an economic projection. Having determined the possibility of turning research into businesses, NUGESCO will provide a continued consultancy of general and technical support in the management of Information Technology, in order to extend the capacity of adding value to business. NUGESCO develops strategic planning, analyzing businesses through commercial, economical-financial, human resources and marketing approach. With this,

the nucleus introduces a new model of management that, through the necessary commercial and juridical assistance, privileges P&D in Information Technology and Knowledge Management.

3. FOCUS ON THE INVENTIVE CAPACITY

The human being, in order to develop their potential and generate wealth, must be stimulated. To create something new, fact that adds a social value to the whole, whether in music, science, arts, commerce, knowledge, research, has a survival value of recognized evolution continuity that must be retributive and recognized. Through the valuation of man, of recognition of their effort and their creativity, and, mainly of Copyright guarantee of their intellectual production, there is an intention of stimulating the development of new capacities.

Many companies, independently of the products or services they offer, create products or processes prone to industrial protection. These assets have an economic potential and must be protected to prevent controversies and the corresponding onerous litigations.

From internal demand and that of companies, institutions, class entities and governmental organisms, NECATI has the aim of elaborating projects to make the gathering possible of financial resources together with national and international organisms, making the innovative technology transfer possible, the identification of chances of new businesses and the modernization of the industrial park of Santa Catarina. And it is to facilitate the development of these activities that NECATI has been developing a System for the Registration of the Industrial Property Production - SERPI.

4. TECHNOLOGICAL TOOL

The tool was developed with an architecture distributed into three layers, access to the relationary data base and profiles differentiated by users. Companies that have interest in sponsor the development of new technologies and are going to do contacts with the inventors also can access the field of register and fill the informations in a specific form.

SERPI allows the identification of business-oriented chances for developed research, through the use of powerful tools of information recovery. In a friendly and intuitive interface, the user will be able to get statistical data about the intellectual production of the registered researchers and also data related to the regional demands in the scope of the companies of information technology. The main objective is to congregate, in the same environment, data and efficient and consolidated information to identify institutional problems allowing the planning of investments in a more controlled and efficient Research and Development. Software, due to its flexibility, can easily be modified and improved as needs appear,.

The methodology used in software is based on the six better practices of the software industry:

- To develop software iteratively;
- To manage requirements;
- To use architecture based on components;
- To model software visually;
- To Continuously verify the quality of software;
- To control changes in software.

SERPI will congregate the knowledge of specialists in Copyright and Information Technology around a common project, which is, to support the researcher-inventors in the process of legal protection of their production. The specialists will indicate data considered relevant for their insertion in a knowledge base in Copyright.

5. PROCEDURE

Software will be supplied by the insertion of data on technological innovations. It will be a form in which personal information will be inserted of the technological innovation producer and of the invention itself.

SERPI will be on the local net and some information will be made available on the internet/portal, except for special matters that need secrecy, the ones related to innovations, as well as the data of the inventors. It could be executed in platforms Unix/Linux and Microsoft Windows and have a horizontal as well as vertical scalability.

The system must require a log in passport and password from users, as well as the establishment of levels of access and permissions for the reading of the databases

After the registration of information, a certification will be emitted of the registry /voucher and a term of consent with the policy of security /ethics /responsibility of NECATI.

The result of this analysis is to generate inputs of high aggregate value for decision making in the processes of technology transfer that will be performed through NECATI, contributing for the rise of the clarification index of crime.

6. CHARACTERISTICS OF THE SYSTEM

The following can be distinguished amongst the characteristics of the system:

Registration of the Technological Innovations

It allows the user to register the technological innovations, as well as all the necessary data for the final registration before the corresponding organisms. The database of SERPI will supply information that is relevant to the specialists, allowing also, a statistical survey on P&D in information technology, what will be facilitating the processes of technology transfer.

Inventors Registration

This function allows the user to register information related to the inventors. This registration base will serve as a support in the processes of technological transference, fomenting the technical, scientific and financial support in the State of Santa Catarina.

Register of Companies dealers

The user is able to insert in this field facts of the company that have interest in find news technologies researched. The company registered stayed stored in the able database being to be recuperated by the inventors in search of financiadores for his projects.

To search for inventors, innovations and registered companies

The users of the system, by registering through login and password will be able to research for inventors, registered innovations and companies. The research could be made through the name, ID Number of the inventor; name, CNPJ Number and economic activity of the company or institution and, title, category name and a summarized description in the case of innovations.

Descriptive report of the Relationship with the Negotiating Company

Considering that communication is not always immediate or shared in an efficient way, SERPI will provides a function that will allow NECATI users to issue a report containing a description of the relationship between the negotiating company and NECATI, to get information and to generate devices for possible contracts between the company and the inventor. The report makes the visualization possible of all the tasks and processes related to the business that is being done. NECATI users will, in the management of these processes, notice a significant reduction in the timing of the transference of information. The result is a faster work in the identification of occurrences of problems in the businesses in progress.

Administration

In this section of the system, it is possible to add new users, to determine devices that can be accessed from SERPI, and which information will be made available in the portal

Descriptive Report of the Relationship with the Negotiating Company

It allows the user to issue a descriptive report containing information about the relationship between the negotiating company and NECATI, to get information and to generate material for possible contracts between company and inventor.

Bar chart of Innovation by Category

It allows the user to visualize the bar chart of innovations by category, informing statistically and visually which the categories are of the most popular innovations.

7. CONCLUSION

The application of this technological tool is of utmost importance for inventors, companies and university, therefore it will be possible to make a survey of the patented or non- patented innovations, generating important statistics for investments purposes and stimulating the economy of Santa Catarina.

The main results of the information analysis of SERPI are: generating support to the industries and companies of Information Technology and Knowledge Management; generating jobs widely, once the research and the development of technologies stimulate the market, generating royalties, the promotion of research in the enterprise and university scopes, the creation of a companies and inventors net which acts in the area of IT and mainly the attraction of national and foreign investments interested in developing the research held in SC.

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