



**GUJARAT TECHNOLOGICAL UNIVERSITY  
(GTU)  
INNOVATION COUNCIL (GIC)  
Patent Search & Analysis Report  
(PSAR)**



**Date of Submission : 09/11/2020**

Dear Prajapati Sanjay Suresh,

Studied Patent Number for generation of PSAR : 20BE7\_170860116021\_2

**PART 1: PATENT SEARCH DATABASE USED**

1. Patent Search Database used : PatentScope (WIPO Patent Database)

Web link of database : <http://patentscope.wipo.int/search/en/search.jsf>

2. Keywords Used for Search : Lawyer, Advocate, App

3. Search String Used : lawyer

4. Number of Results/Hits getting : 73

**PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA**

5. Category/ Field of Invention :

6. Invention is Related to/Class of Invention : computer

6 (a) : IPC class of the studied patent : G06F 16/2457, G06N 3/04, G06Q 50/18

7. Title of Invention : Lawyer recommendation method based on neural network and related equipment

8. Patent No. :

9. Application Number : 201910604439.8

9 (a) : Web link of the studied patent : [https://patentscope.wipo.int/search/en/detail.jsf?docId=CN277614891&tab=NATIONALBIBLIO&\\_cid=P21-KHALMR-37951-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=CN277614891&tab=NATIONALBIBLIO&_cid=P21-KHALMR-37951-1)

10. Date of Filing/Application (DD/MM/YYYY) : 05/07/2019

11. Priority Date (DD/MM/YYYY) :

12. Publication/Journal Number : 110457357

13. Publication Date (DD/MM/YYYY) : 15/11/2019

14. First Filled Country : Albania : 44

## 15. Also Published as

Sr.No	Country Where Filled	Application No./Patent No.
1	China	201910604439.8

## 16. Inventor/s Details.

Sr.No	Name of Inventor	Address/City/Country of Inventor
1	CAI ZHIXIAO	China
2	ZHAO SHENGAN	China

## 17. Applicant/Assignee Details.

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	CHINA PING AN PROPERTY INSURANCE CO LTD	China

18. Applicant for Patent is : Individual

## PART 3: TECHNICAL PART OF PATENTED INVENTION

### 19. Limitation of Prior Technology / Art

well the problem was how to identify the best suitable lawyers for the respective cases. The people having some contacts with the high level authorities were only getting the best lawyers as on demand.

### 20. Specific Problem Solved / Objective of Invention

Different lawyers are familiar with and specialize in different areas, such as insurance for some lawyers and economics for others.

With more and more litigation cases, intelligent lawyer recommendation is particularly important, at present in the field of lawyer recommendation, users often do not know what is the area of expertise of a lawyer, do not even know what channels to find a lawyer, or according to the type of case to recommend the same type of case success rate of high lawyers, there may be a time conflict with the same lawyer, increase communication costs, case handling efficiency is low.

### 21. Brief about Invention

With the progress of society and the advent of the information age, people's legal consciousness and legal needs are constantly expanding with the improvement of quality of life. The high threshold of the lawyer industry, the shallowness of the user's legal common sense, the limitations of the means of communication and channels between lawyers and practitioners, etc., have led to an insurmountable barrier between the traditional lawyer industry and people's daily life. Different lawyers are familiar with and specialize in different areas, such as insurance for some lawyers and economics for others.

With more and more litigation cases, intelligent lawyer recommendation is particularly important, at present in the field of lawyer recommendation, users often do not know what is the area of expertise of a lawyer, do not even know what channels to find a lawyer, or according to the type of case to recommend the same type of case success rate of high lawyers, there may be a time conflict with the same lawyer, increase communication costs, case handling efficiency is low.

In view of this, it is necessary to provide a neural network-based lawyer recommendation method and related equipment in view of the problems of intelligent lawyer recommendation in existing technology.

### 22. Key learning Points

1. It uses neural network based lawyer recommendation method to provide a lawyer

### 23. Summary of Invention

The invention relates to the technical field of big data, in particular to a lawyer recommendation method and related device based on a neural network, and the method comprises the steps: obtaining lawyer information of a plurality of lawyers, and generating a lawyer information base; establishing different lawyer recommendation routing ports according to lawyer information parameters in the lawyer information base; receiving a lawyer recommendation application initiated by the case tracker, and screening a lawyer set A corresponding to the feature information of the case from a lawyer information base through a lawyer recommendation routing port according to the to-be-processed case information in the lawyer recommendation application; and calculating through the memory neural network model and the Hamming distance to obtain a historical agent case, similar to the to-be-processed case, of each lawyer in the lawyer set A, calculating a competency rate, and selecting the lawyer with the highest competency rate to recommend to the case tracking party. The centralized processing of the server is dispersed, the working efficiency of the server is improved, the load is reduced, the accuracy and credibility of lawyer recommendation are improved, and the

communication cost is reduced.

**24. Number of Claims** : 10

**25. Patent Status** : Published Application

**26. How much this invention is related with your IDP/UDP?**

< 70 %

**27. Do you have any idea to do anything around the said invention to improve it? (Give short note in not more than 500 words)**

No