IncoPat is a global patent database provider collecting patents from 120 authorities with data updates every 24 hours. The platform makes an integration of functions like patent search, analyze, online cooperation and monitor. Furthermore, incoPat processes on value-added data like legal status, litigation, corporate business information, technology operation, custom record, communication standards, declassified national defense patents, etc. With deep and professional patent data process, incoPat provides as many as 305 searchable fields, 53 analytical templates and 100 customized anslystical fields which are more than most other vendors to meet users of all demands. By using self-developed patent DNA analysis technology, incoPat combines the technology of AI with IP to realize functions like AI search, landscape analysis, and hotspot prediction to help users raising innovation efficiency, enhancing IP competitiveness and locating business opportunities in emerging market. incoPat dedicates to providing first-rate patent data and platform for R&D, IP professionals and researchers from companies, patent agencies, law firms, universities all around.

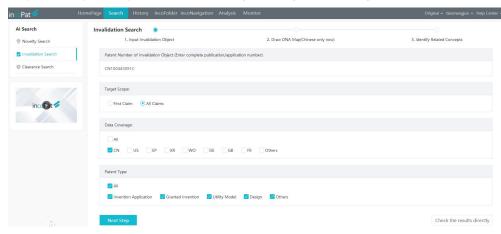
### Some incoPat Featured Functions

## Al Search-for novelty search, invalidation search and clearance search

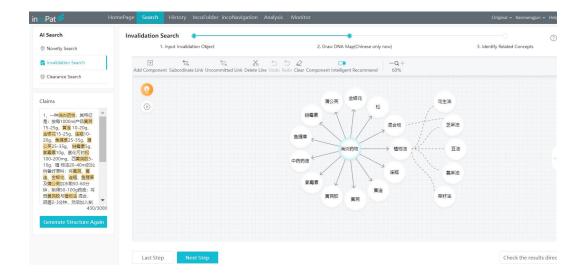
Use technology of Knowledge Map and AI, borrow the concept and algorithm of DNA identification, to identify the core structure in invention patent document and basic element of patent DNA Knowledge Map to realize invention contents accurate identification and accurate matching.

**Example for Invalidation Search** 

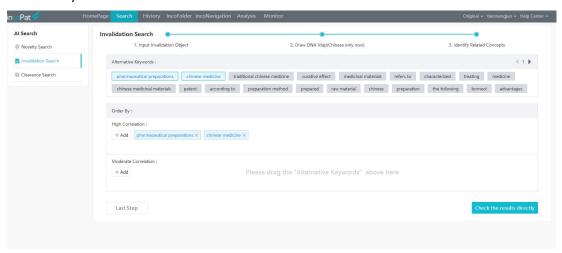
Step 1——Input the patent number being challenged for infringement. Select Search scope



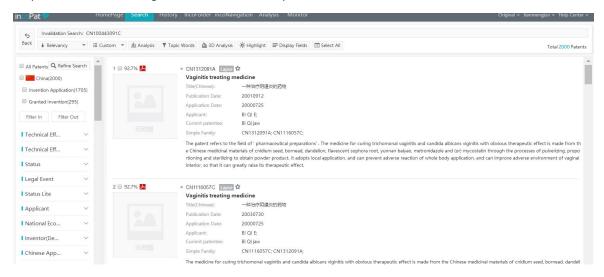
Step 2—Optimize the structure on the DNA map according to user's understanding.



Step 3 — Select some keywords to affect the results ranking according to the similarity to the selected key words.



Step 4—Results Checking——Find out the comparison documents in the results list.



Step 5 — Comparison — Compare the DNA of the target patent with the found comparing documents little by little.



### Conclusion for incoPat AI search.

- 1. IncoPat AI search is based on the technology patent DNA map technology which could help identify the invention structures, the relations between different parts and the attributes for each parts.
- 2. incoPat AI search can be quite helpful for invalidation search and novelty search.
- 3. The AI search process is easy to understand, displaying the invention as a knowledge map which matches the natural thinking mode of human beings. Users could do further process to optimize the structure on the map to make the results more relevant to their demands..
- 4. Currently AI search could search patents around the world. But the knowledge map step supports Chinese patents only. Data of other countries is still under processing and will be supported for knowledge map creation soon.

# Semantic Search Operator RAD/RPD — to rank the patent results according to users demands.

e.g. RAD=(CN1325248C) AND TI=(laminate), the search results will be patents with titles containing laminate and similar to CN1325248C and also the application date shall be earlier than CN1325248C. The results will be ranked according to the similarity to CN1325248C. RPD means patents similar to the target patent with publication dates earlier than the target patent.

# **Technical Efficiency**

incoPat support the statistics and analysis of technical efficiency for patents. incoPat use NLP techonology, machine deep learning together with manual intervention, extract contents on function and efficiency from patents abstract, description contents, generating technical efficiency after simplification and normalization. Currently, technical efficiency data is applied for all Chinese patents.

- 1. Usage Scenario Technical Efficiency Search can help R&D team to quickly find out all technical proposals for a specific technology problem and improvement direction while striving to make technological breakthrough.
- 2. Usage Scenario Technical Efficiency Analysis search Help users to quickly grasp the

technical problems solving directions of the industry and key players of the industry which if important for IP director and R&D direct. Users could use incoPat to conduct technical efficiency analysis of the key players of specific area, learn the technology direction, hotspots, blank spots in a few minutes which shall take days in old human indexing way.

3.Usage Scenario—Assist human indexing. Usually, people need to read the fulltext of patents to do technical efficiency indexing. incoPat provides the technical efficiency sentences, phrases, which can assist users to do conduct indexing more effectively.

Patents of other countries is under processing and will support this function pretty soon.

### **Super Drawing**

incoPat supports Super Drawing function in patent detailed page and patent results page. After opening super drawing button, the part names for each mark number on the drawing will be listed in the drawing which will help users to grasp the contents of the drawing soon. None-English patents drawings can be marked in English.

