

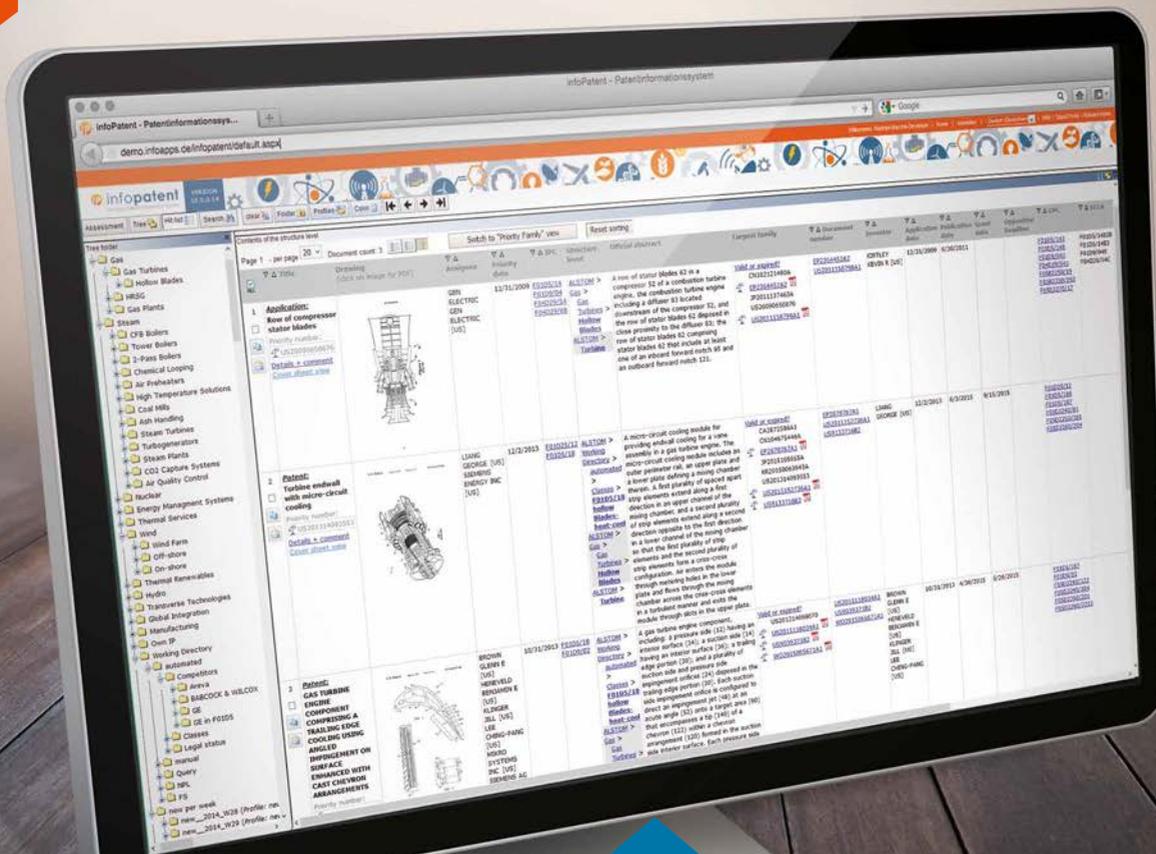
infoPatent – the professional solution for your patent work

Searching for patents, classifying and assessing them – these are central tasks for patent managers and developers in enterprises of all sizes. infoPatent is designed with the goal in mind to support these activities in the most time and cost efficient manner.



The high-performance in-house patent information system infoPatent is designed to:

- > Protect against infringement
 - > Help avoid duplicate development
 - > Watch competitors' IP activities
 - > Survey the State of the Art
 - > Monitor legal status
 - > Archive, share, and assess, patent information
- Comprehensive functionality and various add-on modules assist you in optimizing efficiency and impact of your patent work.**



Global IP data retrieval

Global data coverage, including full-texts

With infoPatent, you are empowered to search for digitally available patents on a global scale – individually or in an automated fashion. Thanks to the unique combination of **Boolean and semantic searching** capabilities in one of the largest IP research databases worldwide (Sem-IP.com), you are able to significantly increase the amount of your hits and improve their quality.

The Sem-IP.com database contains data of about 100M patents, respectively 50M patent families. **Largest possible full-text coverage** is offered, and it is continuously being updated and expanded. Full-texts (descriptions, claims) are generally available in English, German, French and Spanish; other original languages are offered optionally. Machine translations into English are available also (World, America, Europe and Asia-packages). The database is being updated weekly. The current status of the data coverage can be found under www.infopatent.de/semip/datacoverage.

Your advantages

- > Better quality, higher quantity of search results
- > Increased certainty due to global data coverage and monitoring
- > Time-savings due to family-consolidation
- > Optimized workflow, clearly structured and automated
- > Flexibility through individual adaptation of the application

Higher hit quality and quantity

In infoPatent, a field-based Boolean search is combined with a semantic-linguistic searching algorithm.

In the **Boolean search mask** all customary key patent parameters can be searched for, but also a number of application specific parameters, e.g. individual comments, assessments, classifications.

The **semantic search mask** gives you the possibility of inputting arbitrary text elements (e.g. free-text definitions, patent descriptions, product brochures). The application processes this input

in innovative semantic linguistic algorithms, condenses it to its essential meaning (“invention cloud”) and then compares it to the content of all documents in the patent database. The result will be returned within seconds and delivers documents which are similar in essence to the original text. This way, you are able to retrieve documents which you might have missed by just applying the strictly field-based criteria.

Time-savings due to family-consolidation

The search results are consolidated into **INPADOC families**, and are displayed in a clearly structured, individually customizable presentation. The family consolidation performs fully automatically and makes for **considerable time-savings** – no need any more for individually correlation single patent documents to each other. The summary display of retrieved documents shows the key information of a patent family at a glance, including priority numbers, main drawing, IPC/CPC classification, title and abstract, family members.

With a mouse-click, detailed information of all patent documents in a family will be shown, e.g. full-text of description and claims, citations, individual comments.



Use cases

- > Archive, share and assess patent information
- > Infringement protection
- > Competitor watch
- > State-of-the-art survey
- > Legal status monitor

Analysis and Statistics

For the evaluation of retrieved patent portfolios, infoPatent offers a number of powerful statistics and analysis functions. So it is possible to identify the geographical (countries) or technological (IPC/CPC) **focus of a portfolio**, the main applicants or key inventors. The statistics are presented in table format, accompanied by **meaningful diagrams**. All results can also be exported to your computer, for further individual processing

Aspects of the business relevance of a portfolio can be seen in the **analysis functions**. The life cycle of a patent portfolio is displayed, early adopters and late-comers are identified, the geographical focus of filing com-

panies can be compared, cluster and white-spot analyses are performed, amongst others.

The results are designed in a way to **optimally support the users' strategic planning process** and can be used as the basis for your portfolio shaping.

Classifying / Archiving

Individualized in-house archive

Patent families of relevance to you can be stored in a user-defined filing structure, e.g. classified into technological or

business areas. The storage is located on a company-internal server to guarantee **maximum security**. Still infoPatent can easily be accessed by just using a standard web browser. The single-sign-on feature makes for an even easier access without complications. With the help of automated monitoring tasks (e.g. competitors), you can keep your data always at current status. **Your archive never goes out of date!**

By using self-defined monitoring plans, users can exactly define, which publications will be brought to their attention (e.g. first publications, grants), and which ones will just be stored without additional alert (e.g. extensions to certain countries). So you can **considerably reduce your reading**

PRE-SELECTED
PATENTS

PATENT
MANAGER

Search
Profiles

Assessment
Profiles

DEVELOPER

Initial
Assessment

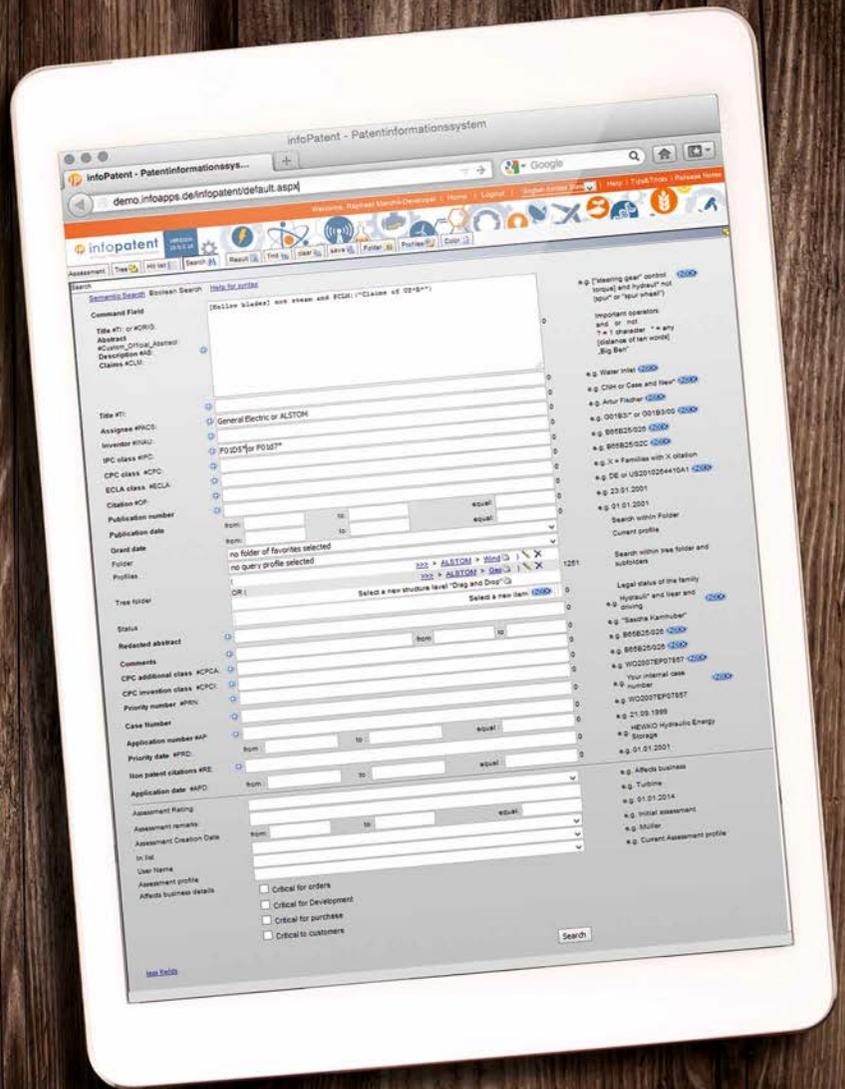
ASSESSMENT

LEGEND:

-  automatically
-  manually
-  legal status change

Archiving

- > Family consolidated presentation
- > User-definable filing structure
- > Automatic or manual classification
- > Clearly structured, adaptable presentation



effort and focus on the really relevant publications only.

Automatic or manual classification

Newly retrieved patent families (e.g. result of a monitor job) can be manually assigned to a pre-defined filing structure by simple drag&drop functionality or by bulk operation. For larger numbers, this process can be further automated by using the **infoPatent classifier**. Thus you can save even more time, and have reliable and better reproducible results.

The infoPatent classifier module

You can drastically reduce the amount of effort spent on classification work

PATENT OFFICER

automatically

Affects Business

Monitoring

Alarm

Actions

TERMINATED

by using the automatic similarity-based infoPatent classifier module. The classifier module is a **self-training process** based on advanced state-of-the-art text mining technology.

As a reference for its classification, infoPatent classifier uses the text documents (be it patent or non-patent literature) contained in a filing structure, set up by the user beforehand. By measuring semantic correlation, the unknown incoming patents are compared to the reference documents; a measure of similarity is calculated, suggesting where a document would fit best into the existing filing structure.

In addition to **time and cost savings**, this fully automated classification process offers the advantage of **identical reproducibility and thus reliability**. This helps significantly to **increase the quality** of the assignments in your archive.

Data Quality

- > Global full-text coverage
- > About 100M patent documents and 50M patent families
- > Boolean and semantic searching functionality
- > English machine translations (World, America, Europe and Asia-packages)

Assessment

The infoPatent assessment

A clearly structured multi-stage assessment process is implemented in the infoPatent assessment. Incoming patents are presented to developers and patent managers in **well-structured to-do-lists**. Using simplified handling procedures, they can add comments and assessment remarks, and finally initiate actions, if needed.

The **assessment process is** designed to be **efficient, transparent, and traceable at any time**. Developers with their technical expertise are optimally integrated in the assessment process,

Assessment

- > Clearly structured and transparent assessment process
- > Simplified handling for developers and patent managers
- > Automatic legal status monitor
- > Extensive statistics and analysis functions

The screenshot displays the infoPatent assessment interface. The top navigation bar includes 'Assessment', 'Archive', and 'Hit list'. The main content area shows a 'Hit list' with 19 granted patents. Two patents are highlighted:

Patent 1: IMPROVED COOLING FOR A TURBINE AIRFOIL TRAILING EDGE. Assignee: DONNELL BRANDON S [US] LEVINE JEFFREY R [US] MONGILLO DOMINIC J [US] UNITED TECHNOLOGIES INC [US]. Official abstract (english): An assembly for a gas turbine engine includes a first platform and an airfoil extending from the first platform. The airfoil includes a first fillet, pressure side biased discharge openings, and a first center cooling discharge opening. The pressure side wall of the airfoil and the first platform form an acute angle at the trailing edge. The first fillet is formed around a perimeter of the airfoil where the airfoil extends from the first platform. The pressure side biased cooling discharge openings are along the trailing edge outside of the first fillet. Each pressure side biased cooling discharge opening extends from the trailing edge along the pressure side wall. The first center cooling discharge opening extends along the trailing edge into the first fillet and is centrally located between the pressure side wall and the suction side wall. Youngest grant date: 6/2/2015. Largest family: EP2877705A2, US201213524295, US2013336767A1, US9045987B2, WO2013US34220, WO2014007889A2, WO2014007889A3.

Patent 2: GAS TURBINE ENGINE COMPONENT COMPRISING A TRAILING EDGE COOLING USING ANGLED IMPINGEMENT ON SURFACE ENHANCED WITH CAST CHEVRON ARRANGEMENTS. Assignee: BROWN GLENN E [US] HENEVELD BENJAMIN E [US] KLINGER JILL [US] LEE CHING-PANG [US] MIKRO SYSTEMS INC [US] SIEMENS AG [DE]. Official abstract (english): A gas turbine engine component, including: a pressure side (12) having an interior surface (34); a suction side (14) having an interior surface (36); a trailing edge portion (30); and a plurality of suction side and pressure side impingement orifices (24) disposed in the trailing edge portion (30). Each suction side impingement orifice is configured to direct an impingement jet (48) at an acute angle (52) onto a target area (60) that encompasses a tip (140) of a chevron (122) within a chevron arrangement (120) formed in the suction side interior surface. Each pressure side impingement orifice is configured to direct an impingement jet at an acute angle onto an elongated target area that encompasses a tip of a chevron within a chevron arrangement formed in the pressure side interior surface. Youngest grant date: 5/26/2015. Largest family: US201314068070, US2015118034A1, US9039371B2, WO2015065671A1.



„Grow your patent knowledge base“

while at the same time keeping their required workload to a minimum. No special patent knowledge is needed for the developers; all relevant patent information is extracted for them in a concentrated way, so they have all the important and relevant information at a glance.

Assessment Workflow

The assessment process can flexibly and individually be set up to mirror the existing workflow of your company; tasks and respective responsibilities can clearly be assigned to users or defined user-groups.

For the **initial assessment** of patents, assessment profiles are assigned to developers according to their technical expertise. Here the developers have simply to mark one of three selection options: 1) "not relevant", 2) "interesting", 3) "affects business". Depending on this choice, different process steps follow subsequently.

The option "affects business" starts the further assessment workflow. The patents with this predicate are presented to the patent managers for their reject-

ing or acknowledging the initial assessment (second opinion). To advance the assessment workflow, the respective patent family is assigned to a different **workflow list** by simply setting a mark in the assessment section, and possibly adding an explanatory remark. For instance, relevant patents might be assigned to a "Monitoring List", awaiting grant publications in this family. Or patents from the "Alarm List" might be assigned to the "Opposition List", initiating further actions with respect to this patent (e.g. opposition, licensing, work-around). Patents on the "Monitoring List" are continuously being monitored by the application, and they are automatically advanced to the "Alarm List" as soon as a respective grant is published.

Patents are moved to the "Opposition List" by setting a mark at "Start opposition" and adding the respective patent number from a pull-down menu. Appropriate actions according to the company policy can now be initiated with respect to the flagged patent. The patent family of the "opposed-to"

patent however remains on the origination list, e.g. "Alarm List" for further monitoring and processing.

Choose infoPatent, and:

- > build your own patent knowledge base
- > secure existing patent knowledge and share it in your enterprise
- > establish a clearly structured and efficient workflow
- > Protect against infringement
- > Help avoid duplicate development
- > Watch competitors' IP activities
- > Survey the State of the Art
- > Monitor legal status



Please contact us for a free-of-charge presentation of your use case in infoPatent: help@infoapps.de or phone +49 (0)89 30 74 85 70

We are looking forward to hear from you!

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