

BARDEHLE PAGENBERG

Impact. Passion. IP.

PATENTABILITY OF CII AROUND THE GLOBE

Tobias Kaufmann

German & European Patent Attorney, Partner

THE EPO'S APPROACH





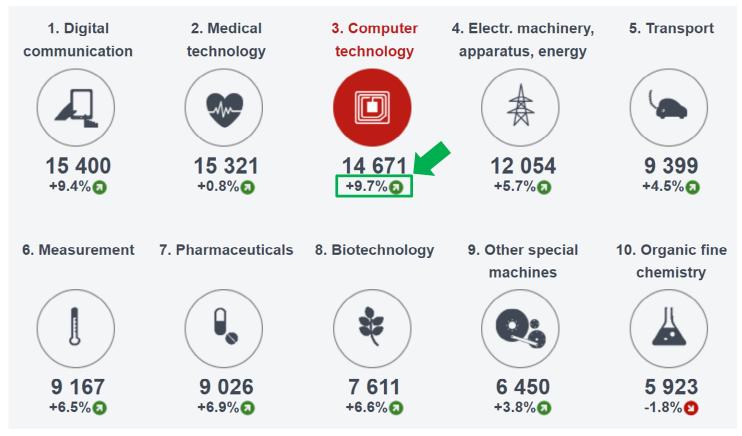
CIIs at the EPO – state of play



EPO filing statistics



Highest growth rate of top 10 technical domains:



Source: https://www.epo.org/about-us/annual-reports-statistics/statistics/2021/statistics/patent-applications.html#computer

Þ

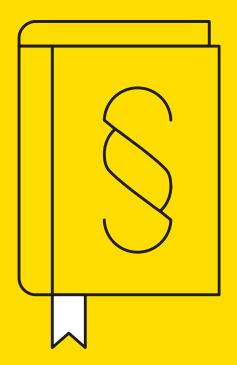
Long-lasting growth trend:



Source: https://www.epo.org/about-us/annual-reports-statistics/statistics/2021/statistics/patent-applications.html#computer



The Law –
Technicality and assessment of inventive step



Special treatment in the EPC

Artikel 5238, 39 Patentierbare Erfindungen

- (1) Europäische Patente werden für Erfindungen auf allen Gebieten der Technik erteilt, sofern sie neu sind, auf einer erfinderischen Tätigkeit beruhen und gewerblich anwendbar sind.
 - (2) Als Erfindungen im Sinne des Absatzes 1 werden insbesondere nicht angesehen:
 - Entdeckungen, wissenschaftliche Theorien und mathematische Methoden;
 - ästhetische Formschöpfungen;
 - Pläne, Regeln und Verfahren für gedankliche Tätigkeiten, für Spiele oder für geschäftliche Tätigkeiten sowie Programme für Datenverarbeitungsanlagen;
 - die Wiedergabe von Informationen.
 - (3) Absatz 2 steht der Patentierbarkeit der dort genannten Gegenstände oder Tätigkeiten nur insoweit entgegen, als sich die europäische Patentanmeldung oder das europäische Patent antände oder Tätigkeiten als

Article 5238, 39 Patentable inventions

- (1) European patents shall be granted for any inventions, in all fields of technology, provided that they are new, involve an inventive step and are susceptible of industrial application.
 - The following in particular shall not be regarded as inventions within the meaning of paragraph 1:
 - discoveries, scientific theories and mathematical methods;
 - aesthetic creations;
 - schemes, rules and methods for performing mental acts, playing games or doing business, and programs for computers;
 - presentations of information.
 - Paragraph 2 shall exclude the patentability of the subject-matter or activities referred to therein only to the extent to which a European patent application or European patent relates to such subject-matter or activities as such.

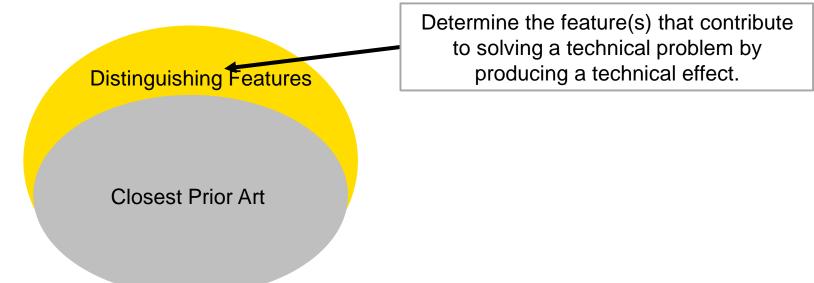


THE LAW - TECHNICALITY AND ASSESSMENT OF INVENTIVE STEP

The COMVIK Approach (T 641/00)...



- Legitimate to have a mix of technical and non-technical features in a claim
- Non-technical features that do not interact with the technical subjectmatter for solving a technical problem (= "non-technical features as such") are ignored for novelty and inventive step
- Technical problem may be formulated using an aim to be achieved in a non-technical field



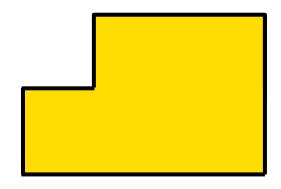
... and the two-hurdle appraoch





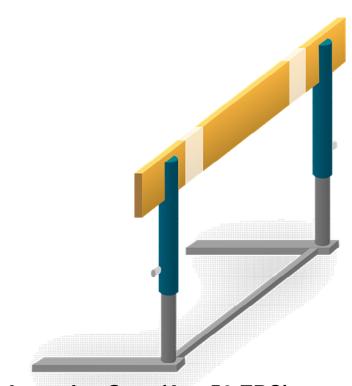
1. Assessing eligibility (Art. 52 EPC):

Does the claimed subject-matter
have "technical character"?



Intermediate Step:
"Filter" for features contributing
to a technical solution of a
technical problem in view of the

closest prior art

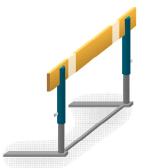


2. Inventive Step (Art. 56 EPC):

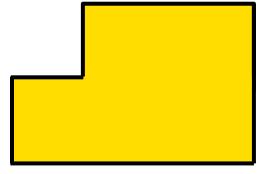
Does the claimed subject-matter provide for a non-obvious technical solution to a technical problem?

... and the two-hurdle appraoch



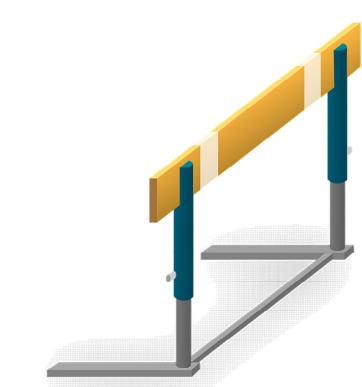


1. Assessing eligibility (Art. 52 EPC): Does the claimed subject-matter have "technical character"?



Intermediate Step:

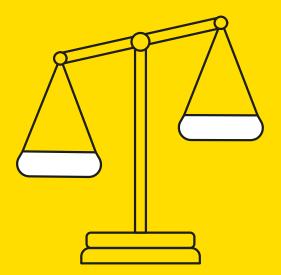
"Filter" for features contributing to a technical solution of a technical problem in view of the closest prior art



2. Inventive Step (Art. 56 EPC): Does the claimed subject-matter provide for a non-obvious technical solution to a technical problem?



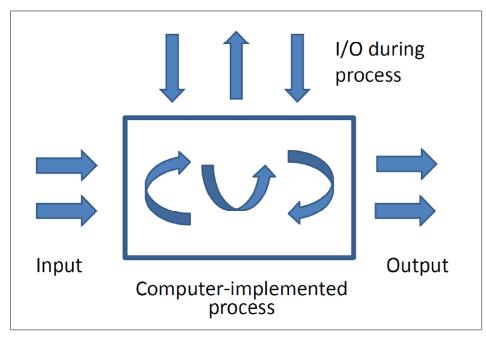
The Boards' Approach re "technical" inventions



The "technical effect" needed for contributing to an inventive step



- Any further technical effect going beyond the "normal" physical interactions between a program and the computer on which the program / simulation is run (T 1173/97)
- The further technical effects
 - are "typically" technical effects on a physical entity in the real world, or requiring a "direct link with physical reality",
 - or they could also be "other effects" such as technical effects within the computer system or network
- These further technical effects must go beyond the "straightforward or unspecified implementation on a standard computer system"
- and be present over the whole scope.



measurements

control signal for controlling a machine

adaptions to the computer or its operations (e.g. better use of storage capacity or bandwidth)

Example 1: Presentation of information



T 1442/16 of August 30, 2019

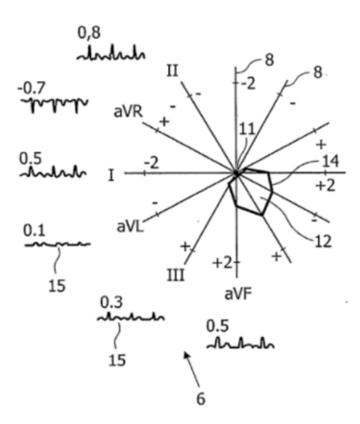
Gist of the invention:

- Displaying patient data in a multi-axes diagram.
- Position of the axes is related to the position of the sensors arranged on the patient.
 - → More intuitive representation than mere points plotted on axes.

Technical?

 No: intuitiveness of presentation of information is not an objective effect, but <u>rather a subjective</u> one.

No technical effect in the sense of the EPC.



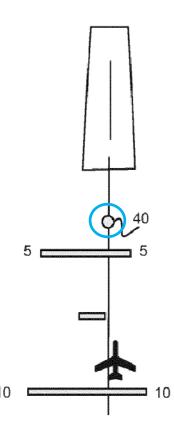
Example 2: Presentation of information



T 0013/18 of April 12, 2019

- Gist of the invention:
 - Displaying information on a display device of an aircraft
 - Calculated touchdown point is visually highlighted
- Technical?
 - Yes: increases safety of landing process because pilot is enabled to abort the landing in due time if necessary.

This is a technical effect in the sense of the EPC.



Example 3: Database Systems/Mathematical Models



T 1924/17 of July 29, 2019

Gist of the invention:

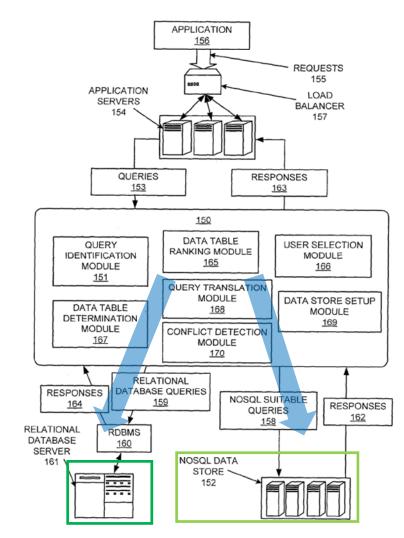
 Joint use of a relational database system (RDBMS) and a NoSQL database

RDBMS:

- Advantage: data consistency
- Disadvantage: slow processing

NoSQL database:

- Advantage: faster processing
- Disadvantage: data consistency not guaranteed
- <u>Invention</u>: Decide whether parts of the data structures should be managed by the RDBMS or by the NoSQL database based on a linear combination (formula present in claims).



Example 3 (cont'd): Database Systems/Mathematical Models

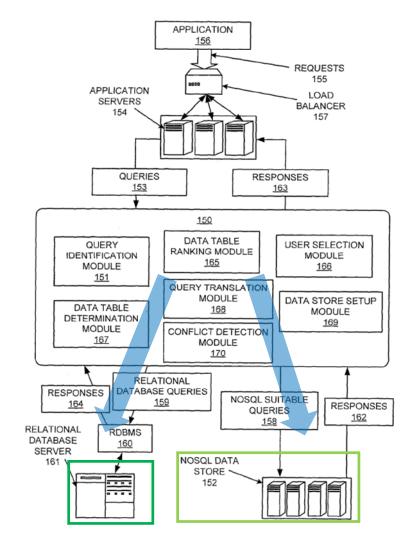


T 1924/17 of July 29, 2019

- Mathematical methods are thus excluded from patent protection "as such" if they involve purely intellectual activities apart from the real (physical) world.
 - → No exclusion if they solve a <u>technical problem</u> (and if this is also reflected in the claim wording).

Technical?

 Yes: exploiting the different performance characteristics of the different data stores for improved query processing solves a technical problem.

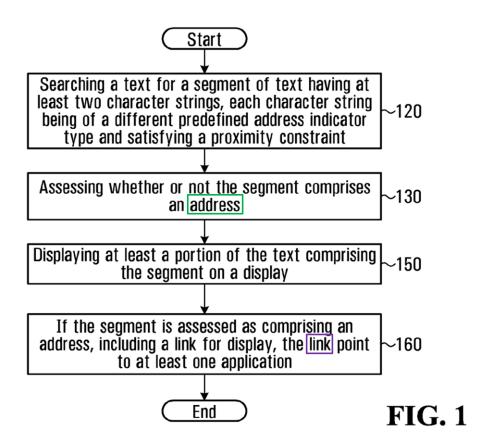


Example 4: Classification of data

Þ

T 0504/18 of June 18, 2021:

- Gist of invention:
 - Detecting a physical address such as a street address within a text message, followed by creating a link for the physical address.
 - Selecting the link will result, for example, in the address location being displayed on a map.
- Technical?
 - No: a street address consists of data in an administrative, nontechnical data format. Merely finding an algorithm in a nontechnical field is non-technical.



Example 5: Classification of data

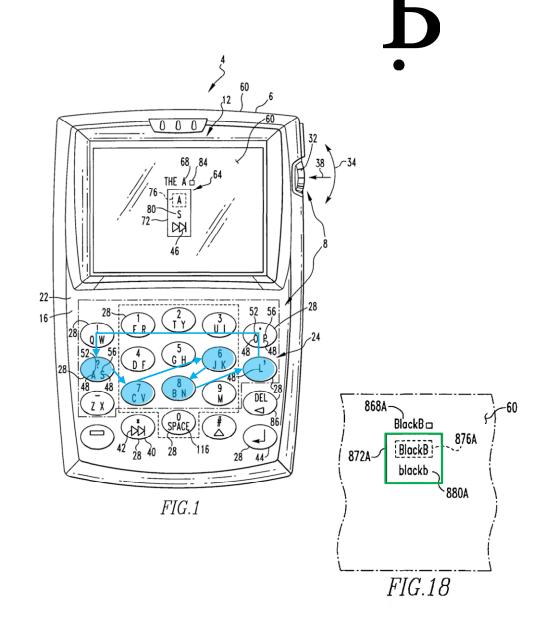
T 0200/19 of April 30, 2021:

Gist of invention:

- Relates to a handheld electronic device that includes a reduced keyboard as shown on the right side.
- User intends to write "BlackBerry"
- Example: sequence BN, L, AS, CV, LK, BN is pressed, wherein only the second SN is explicitly written in upper case mode: blackB....
- Invention automatically converts it to BlackB... based on a disambiguation list.
 - → avoids the need to press an additional key to obtain upper case letter.

Technical?

 Yes: enhancing the efficiency of disambiguation of a user input provided via a reduced keyboard of a handheld device is considered technical.



Further material regarding technicality

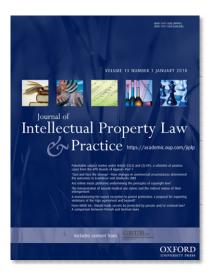


www.europeansoftwarepatents.com

New EPA decisions on technicality on a weekly basis operated by BARDEHLE PAGENBERG CII team



"Patentable subject matter under Article 52(2) and (3) EPC: a whitelist of positive cases from the EPO Boards of Appeal" (Stefan V. Steinbrener)



Aitäh!



Tobias Kaufmann

tobias.kaufmann@bardehle.de



BARDEHLE PAGENBERG

BARDEHLE PAGENBERG Partnerschaft mbB Prinzregentenplatz 7 81675 München Law Firm of the Year 2020 for Intellectual Property Law – Best Lawyers® and Handelsblatt
Firm of the Year for Copyright/Design in Germany 2019 – Managing IP
Europe's Leading Patent Law Firms 2020 – Financial Times
IP Law Firm of the Year and Law Firm of the Year for Trademarks & Unfair Competition 2018 – JUVE
TOP-KANZLEI Patentrecht 2019 – WirtschaftsWoche