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European Patent Office

Examination of CII and Business Methods Applications

Madrid November 2006

Joerg Machek, Ph.D., Director 2.2.21



> Requirements of the EPC

> > Technicality

EPO Practice

Statistics

A method of promoting toy sales,

comprising the step of

Claim Example

placing the toys on the lower shelves of the store, where they are easily accessible for children.

classified in IPC class G06Q (was G06F17/60)

 \geq ~ 80000 published applications

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A method for employing a training script

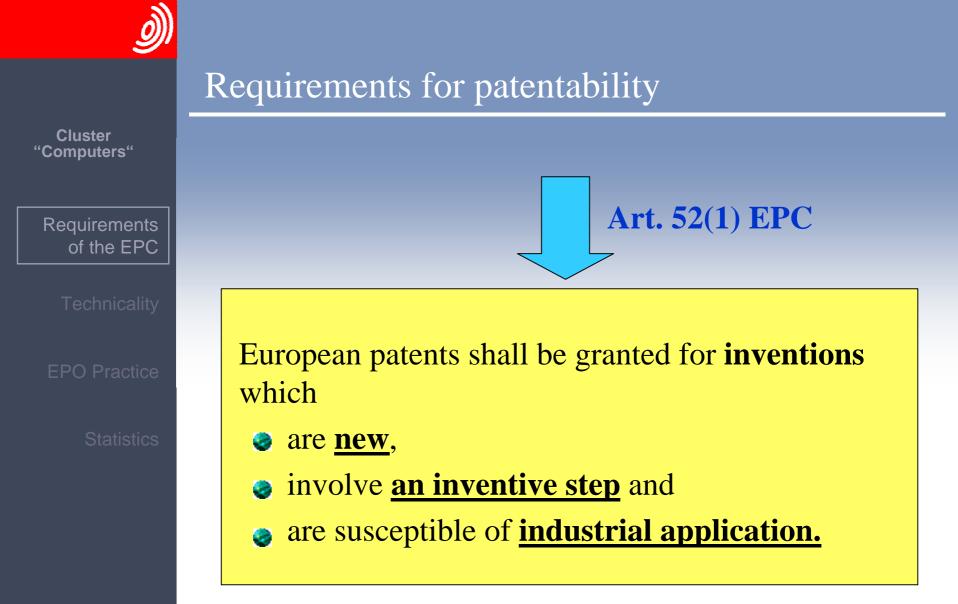
comprising the steps of

Claim Example

- receiving a training script;
- detecting a characteristic of a workout; and
- displaying activity information designated by the training script in response to detecting the characteristic.

classified in IPC class G09B

 \succ ~ 54.000 published applications





Requirements of the EPC

a)

b)

c)

d)

What is excluded from patentability?

Article 52(2) :

The following in particular shall not be regarded as inventions

discoveries, scientific theories and mathematical methods aesthetic creations

schemes, rules and methods for performing mental acts, playing games or doing business, ···as long as claimed as Article 52(3) and programs for computers;

presentation of information





What is an invention?

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Art.52(2) EPC : non-exhaustive list of "non-inventions" or potential EXCLUSIONS

Art.52(3) EPC: The items in the list of Art.52(2) EPC become exclusions only when they are claimed AS SUCH

- *IMPORTANT*: assessment of whether the claimed subject-matter represents an INVENTION or an EXCLUSION without regard to prior art.
- The claim is considered as a whole



What is an invention?

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- Having technical character is an implicit requirement of the EPC to be met by an invention in order to be an invention within the meaning of Article 52(1) EPC.

T 931/95 - Pension benefit scheme

A method involving technical means is an invention within the meaning of Article 52(1) EPC.
 T 0258/03 - HITACHI Headnote I.



Technicality

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What is technical?

No definition of the word "technical" is contained in the European Patent Convention (EPC).



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"A teaching for a <u>systematic proceeding by</u> <u>application of controllable natural forces</u> to achieve a causal perceivable result, which is the immediate consequence of the controllable natural forces without an intermediate step of the human intellect."

Definition of German Federal Court of Justice

Antiblockiersystem: GRUR 1980, 802



Definition of German Federal Court of Justice

revisited

"A process that involves – prior to the physical production – an intermediate step performed substantially with the aid of computers <u>cannot be</u> <u>excluded from patentability on the grounds that it</u> <u>refrains from making direct use of controllable</u> forces of nature if the solution seeks to promote the possibility of manufacturing technically workable products in a different manner by technical knowledge."

Logikverifikation: BGH ref X ZB 11/98

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EPO Approach

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Rather than attempting a general definition of technical", the Board's present approach is to stake out, through a series of individual decisions, the grey area requiring interpretation.



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Technicality

Technical is...

processing physical data

parameters or control values of an industrial process

processing which affects the way a computer operates

✓ saving memory, increasing speed

 \checkmark security of a process, rate of data transfer etc.

 technical character may be implied by the physical features of an entity

✓ memory, port etc.



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Features relating to non-inventions within the meaning of Art. 52 (2) EPC are non technical features, e.g.

- selling, trading, insurance
- choosing amongst candidates for a job
- order placement and management



EPO procedure

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The examining division is responsible for the examination of European patent applications. (Article 18(1) EPC).

=> proceedings *ex parte*





EPO procedure

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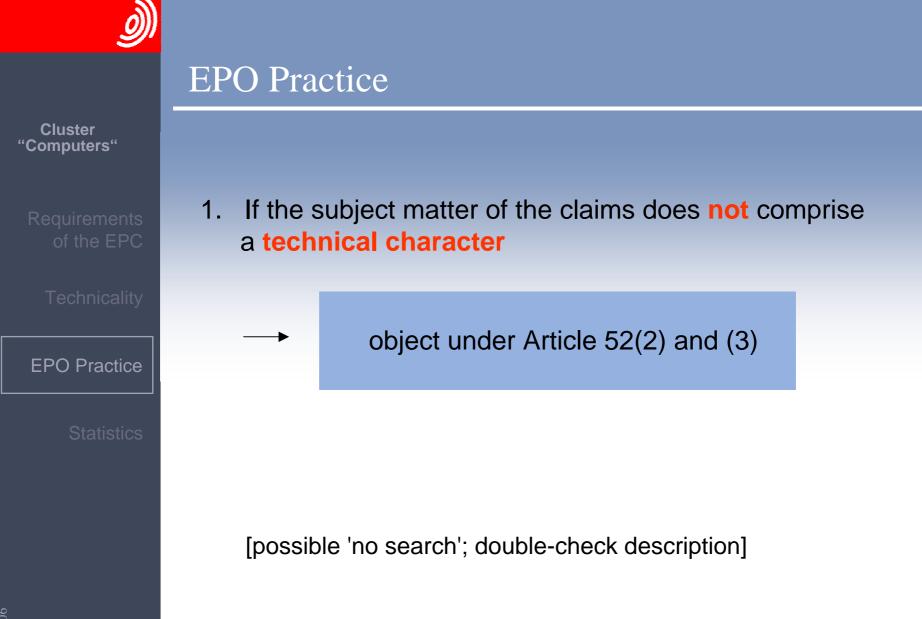
> > Technicality

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An Opposition Division shall be responsible for the examination of oppositions against any European patent (Article 19(1) EPC). => proceedings *inter partes*







> Requirements of the EPC

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"No Search" Statement :

The claims relate to subject matter excluded from patentability under Art. 52(2) and (3) EPC.

Given that the claims are formulated in terms of such subject matter or merely specify commonplace features relating to its technological implementation, **the search examiner could not establish any technical problem which might potentially have required an inventive step to overcome**.

Hence it was not possible to carry out a <u>meaningful</u> search into the state of the art (Rule 45 EPC). See also Guidelines Part B Chapter VIII, 1-3.



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méthodes.

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Example:

A method for evaluating leadership effectiveness, comprising the steps of:

- gathering target information quantifying at least
 one domain selected from the group consisting of
 having personal convictions, being visionary,
 building emotional bonds, being inspirational,
 being team oriented, being a risk taker and having
 a drive to excel;
- comparing the target information with a standard, the standard including standard values of the domain; and
- identifying non-standard responses of the target.



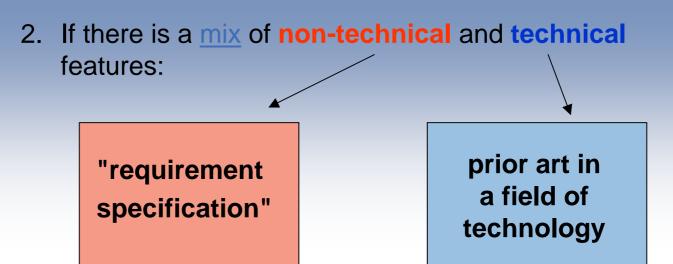
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- instructions given to the programmer summarising the requirements of the customer
 e.g. a business or administrative process to be automated
- skilled person is aware of it
- normally found in description & (in summarised form) in claims



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Does the claim comprise:

A feature or group of features that, considered independently from the group of remaining features of the claim, define subject-matter excluded from patentability under Article 52(2) and (3) EPC; wherein

...returr

said feature or group of features does not combine with the group of remaining features of the claim in a way such that the combination of both groups of features has a different technical character to that of the group of remaining features of the claim when considered on its own.

If the answer to this question is yes then said feature or group of features is considered to be non-technical.

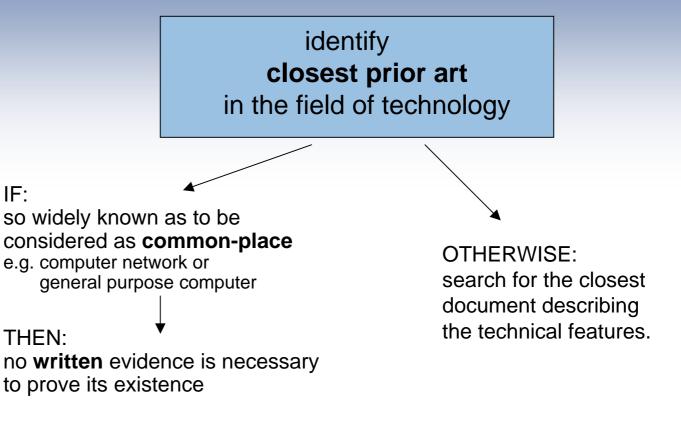


IF:

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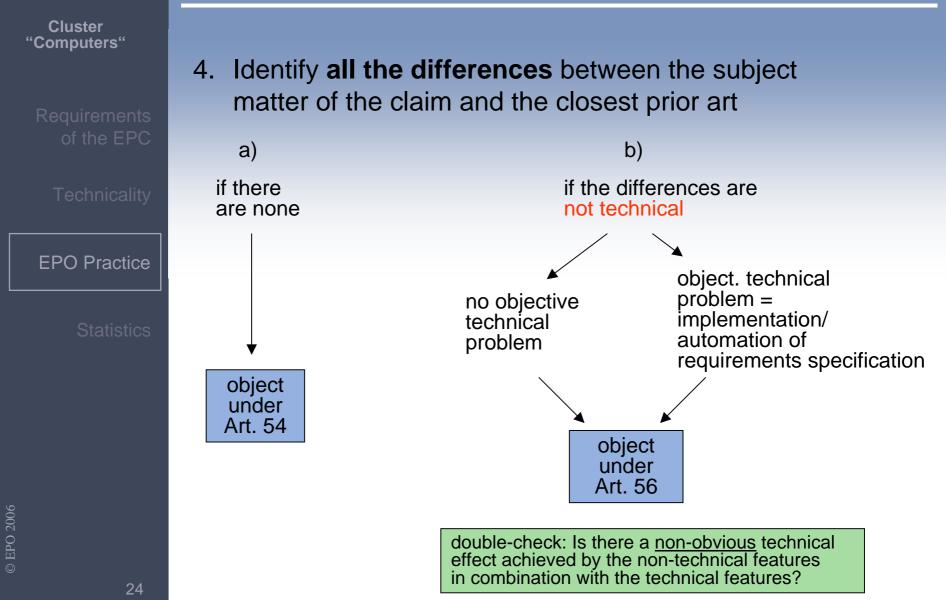




[possible no-search]









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4. Identify **all the differences** between the subject matter of the claim and the closest prior art

if differences = mix of non-technical & technical features

C)

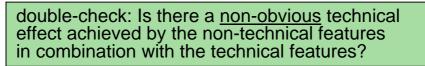
 i) formulate the objective technical problem taking into account the requirements specification e.g. "how to adapt system of CPA in order to implement the business concept"

Solution:

solution of the objective technical problem must require the technical features of the above identified differences.

ii) if the solution of the technical problem is obvious

→ object under Art. 56



if differences are purely technical

d)





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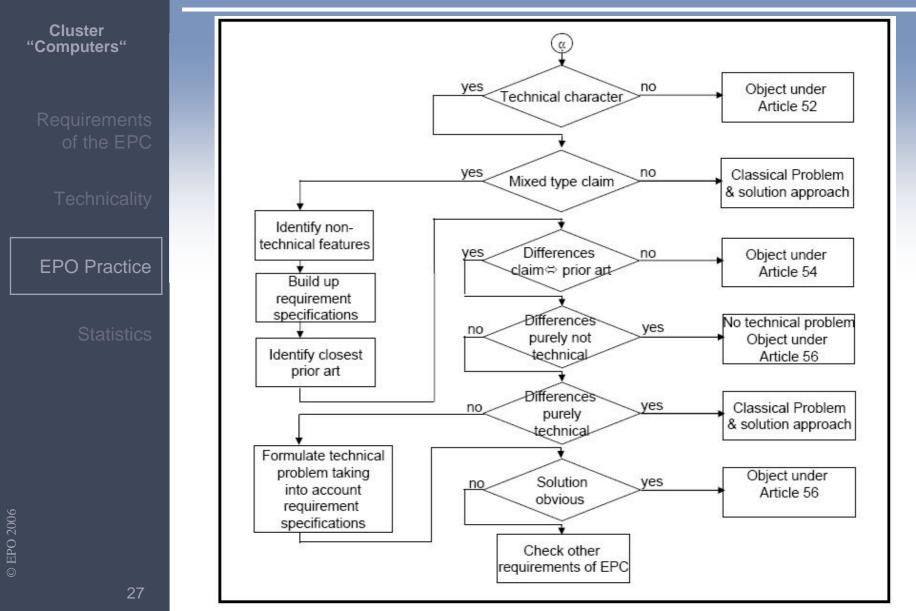
> > Technicality

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5. Check the other requirements of the **EPC**







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Example:

A computerised method for evaluating leadership effectiveness, comprising the steps of:

- receiving on a computer target information quantifying at least one domain selected from the group consisting of having personal convictions, being visionary, building emotional bonds, being inspirational, being team oriented, being a risk taker and having a drive to excel;
- comparing electronically the target information with a standard, the standard including standard values of the domain; and
- identifying electronically non-standard responses of the target;
- outputting the non-standard responses on a display screen.



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Statistics

TechnicalYesMixed type claimYesRequirement specsEvaluating leadershipClosest prior artGeneral purpose computerDifferencesData processingTechnical problemAdapt a computerSolution obviousYes

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Requirement Specifications

- A computerised method for evaluating leadership effectiveness, comprising the steps of:
- A method for evaluating leadership effectiveness,
- where the provide the second s one domain selected from the group consisting of having personal
- information beingvisional statilitansis nectional from a petantial **candidaton**al, being team oriented, being a risk taker and having a drive to excel:
- the target information is compared with a pre-defined standard;
- and paring electronically the target information with a standard, the standard including standard values of the domain; and non-standard responses are identified;
- identifying electronically non-standard responses of the target;
- outputting the non-standard responses on a display screen.



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Differences

A computerised method for evaluating leadership effectiveness, comprising the information on a computer;

- **chectronically comparing thrg th for antidyidy antidyidy at** least one domain selected from the group consisting of having personal **clost removed**, being the selected from the group consisting of having personal inspirational, being team oriented, being a risk taker and having a autoutting the non-standard responses on a display screen.
- comparing electronically the target information with a standard, the standard including standard values of the domain; and
- identifying electronically non-standard responses of the target;
- outputting the non-standard responses on a display screen.





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Objective technical problem

adapt the general purpose computer so that

the requirement specifications are implemented and can be performed electronically and the resulting information is displayed on a screen.



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Example:

Method for purchasing and payment of goods and services, preferably audio and/or video data provided on a provider's platform in a computer network, like the Internet,

comprising the steps:

- taking a customer's order for goods and services, preferably an order for audio and/or video data files;
- providing a download of ordered goods and services, preferably of audio and/or video data files, for the customer;

and

- debiting a mobile telephone account of the customer.



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Statistics

Technical Mixed type claim Requirement specs Closest prior art Differences Technical problem Solution obvious

EPO Practice

Ordering and paying for goods Platform for downloading audio files from the Internet

Debiting mobile phone account

none

Yes

Yes

n.a.





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Requirement Specifications

Method for sellidg/pingchasing and iot af d/ordside of datavices, proficiently a third and/or ty ideo data provided on a pateoricler's platform in a computer network, like the Intersetomer's order is taken, companies ingut disostepts/or video data files are delivered;

- **taki**ng a customer's order for goods and services,
- prefebilelyekephoderafacound of the kurstodeer date bited.
- providing a download of ordered goods and services, preferably of audio and/or video data files, for the customer;

and

- debiting a mobile telephone account of the customer.





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Differences

Method for purchasing and payment of goods and services, preferably audio and/or video data provided on a provider's platform in a computer network, like the Internet,

comprising the steps:

- taking a customer's order for goods and services, preferably an order for audio and/or video data files;
- providing a download of ordered goods and services, preferably of audio and/or video data files, for the customer;

and

- debiting a mobile telephone account of the customer.





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Objective technical problem

no objective technical problem can be identified

There is no inventive step involved.



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Example:

Method for purchasing and payment of goods and services, preferably audio and/or video data provided on a provider's platform in a computer network, like the Internet,

comprising the steps:

- taking a customer's order for goods and services, preferably an order for audio and/or video data files;
- providing a download of ordered goods and services, preferably of audio and/or video data files, for the customer;

and

- debiting a mobile telephone account of the customer, whereby the purchase data sent to the telephone company are at least partially encrypted by a password.



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Statistics

Technical Mixed type claim Requirement specs Closest prior art

EPO Practice

Differences

Technical problem Solution obvious Yes

Yes

Ordering and paying for goods

Platform for downloading audio files from the Internet

Debiting mobile phone account and encrypting purchase data

Enhance data security

Was encryption known?



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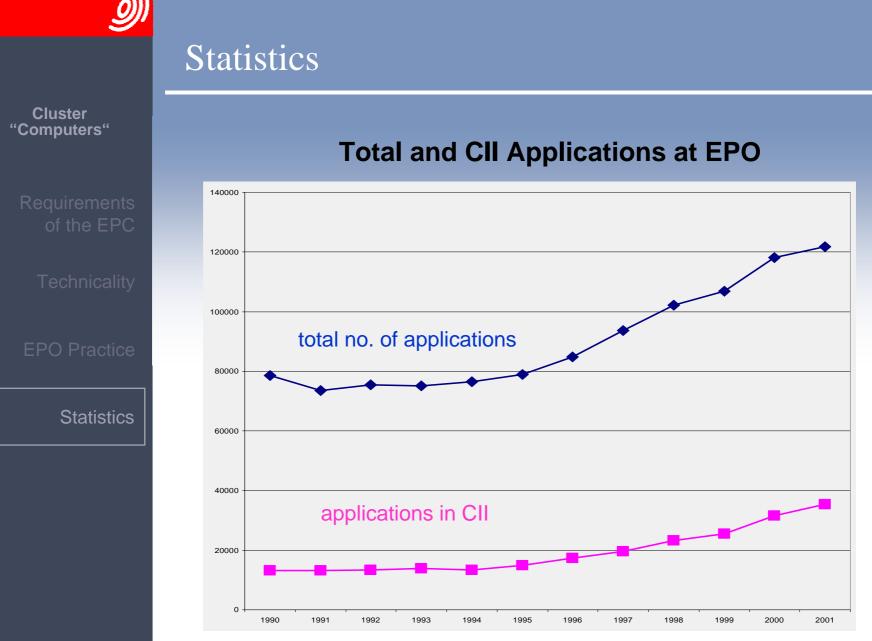
> Requirements of the EPC

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5. Check the otherrequirements of the EPC





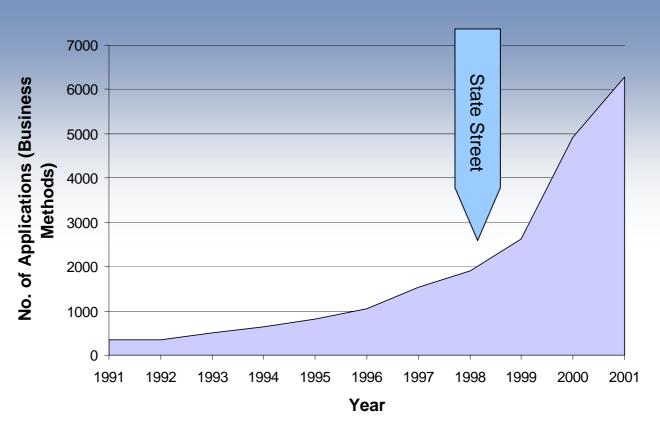


Requirements of the EPC

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The number of applications to be searched at the EPO increased dramatically in the field of business methods.



(in the field of business methods)

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rate of 'No Search' 25 State Rate of No-Searches [%] 20 Street 15 10 5 0 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 Year

Rate = number of 'No Search' / the total number of applications

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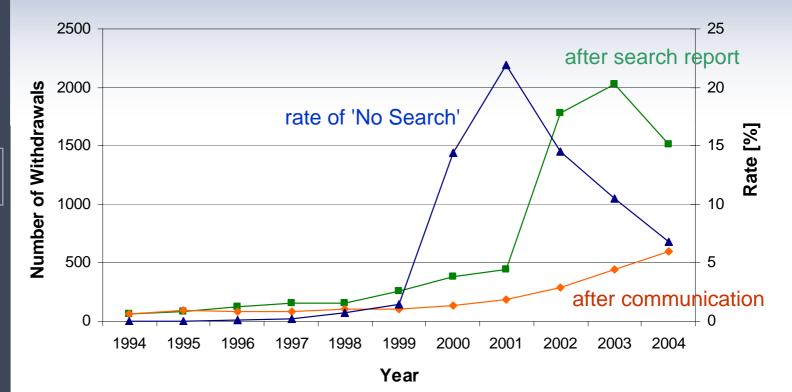
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Number of withdrawals after 'No Search' and after written communication (in the field of business methods)



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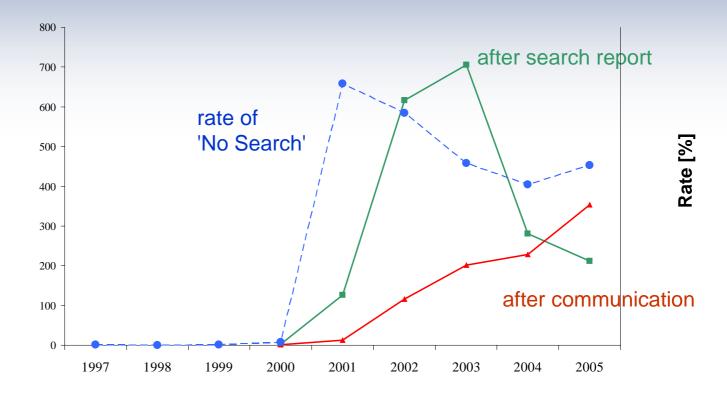
Requirements of the EPC



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Number of withdrawals after 'No Search' and after written communication (in the field of business methods)





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