

European Patent Office

Examination of CII and Business Methods Applications

WWW2006

Edinburgh

Dr. Clara Neppel Examiner EPO, München



European Patent Office



The European Patent Office

Service For Industry and Public





Locations

European Patent Office

CII

Requirements

Examination Practice





The Hague



Headquarters Munich Isar building



Berlin

Brussels Bureau



Member states

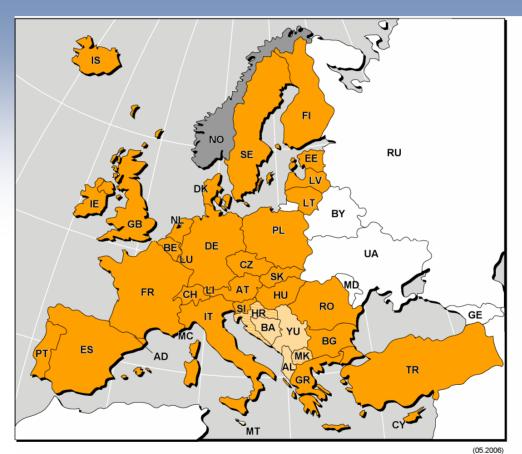
European Patent Office

CII

Requirements

Examination Practice







Member states of the European Patent Organisation

AT Austria, BE Belgium, BG Bulgaria, CH Switzerland, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IS Iceland, IT Italy, LI Liechtenstein, LT Lithuania, LU Luxembourg, LV Latvia, MC Monaco, NL Netherlands, PL Poland, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey



States entitled to join the European Patent Convention (EPC)

NO Norway



States which have been invited to join the EPC HR Croatia, MK Former Yugoslav Republic of

Macedonia (FYROM), MT Malta



States recognising European patents ("EXTension states")

AL Albania, BA Bosnia-Herzegovina, HR Croatia, MK Former Yugoslav Republic of Macedonia (FYROM), YU Serbia and Montenegro



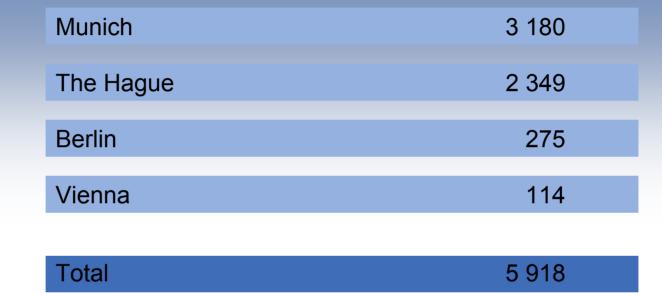
Staff 2004

European Patent Office

CII

Requirements

Examination Practice







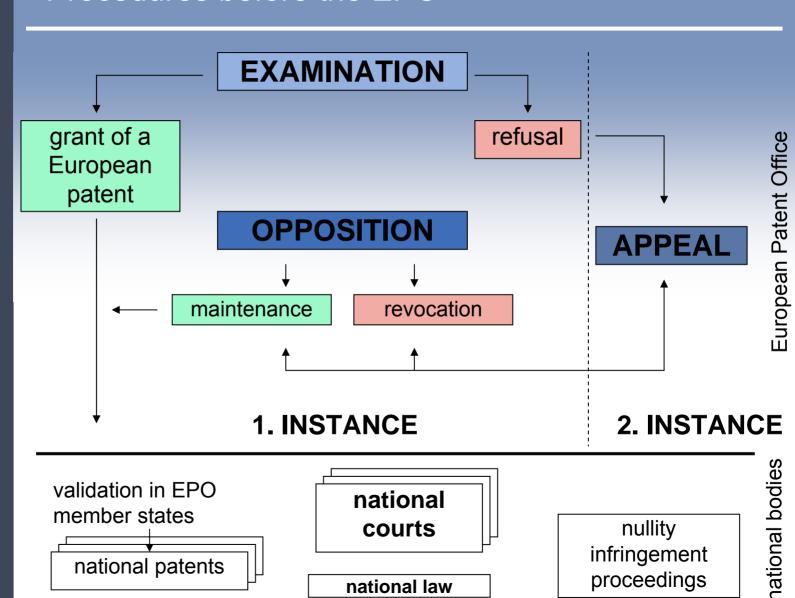
Procedures before the EPO

European Patent Office

CII

Requirements

Examination Practice



national law

proceedings



EPO procedure

European Patent Office

CII

Requirements

Examination Practice

The examining division is responsible for the examination of European patent applications.

=> proceedings *ex parte*





EPO procedure

European Patent Office

CII

Requirements

Examination Practice

An Opposition Division shall be responsible for the examination of oppositions against any European patent.

=> proceedings *inter partes*





Intellectual Property Rights



The same bottle could be protected

by industrial design for its novel and aesthetic features

by trademark for its distinguishing features

by patent for its **technical** features such as pressure resistance



Copyright & Patent Protection for Software

European Patent Office

CII

Requirements

Examination Practice

right	subject-matter	software result	protection
copyright	original works	program code documentation (graphical user interface)	 reproduction distribution communication modification (no private use)
patent	inventions with technical character	concept / method application of algorithms	productionusedistribution(private use exception)



IP for Software?

European Patent Office

CII

Requirements

Examination Practice

Software patent

- is a colloquial expression
- might mislead to the assumption that source/object code is patentable

Computer-implemented invention

- Claims which involve computers, computer networks or other conventional programmable apparatus whereby features of the claimed invention are realised by means of a program or programs
- Examples: mobile phone, ABS system



Claim Example

European Patent Office

CII

Requirements

Examination Practice

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.





European Patent Convention

European Patent Office

CII

Requirements

Examination Practice

What is an Invention?

Patentable Inventions

European patents shall be granted for

- any inventions which

 \rightarrow A.52(2)(3)

 \rightarrow A.57, A.52(4)

- are susceptible of industrial application
- are new

- \rightarrow A.54
- and which involve an inventive step.
- → A.56





European Patent Convention

European Patent Office

CII

Requirements

Examination Practice

What is NOT an Invention?

The following, in particular, shall not be regarded as inventions:

- a) discoveries, scientific theories, mathematical methods;
- b) aesthetic creations;
- schemes, rules and methods for performing mental acts, playing games or doing business, and programs for computers;
- d) presentations of information;

...only to the extent to which a European patent application relates to such subject matter or activities as such.

A.52(3)



European Patent Law

European Patent Office

CII

Requirements

Examination Practice

Legal Principle:

the patent monopoly must be justified by the **technical contribution** to the art.



European Patent Law - What is an Invention?

European Patent Office

CII

Requirements

Examination Practice

Guidelines of the EPO

An invention must be of "technical character" to the extent that it

- must relate to a technical field
- must concern a technical problem
- must have technical features in terms of which the matter for which protection is sought can be defined in the claim



European Patent Law - What is an Invention?

European Patent Office

CII

Requirements

Examination Practice

Case Law

- Technical character or technical effect are assessed without the knowledge of prior art,
 i.e. it is not a contribution approach
 (Computer Program Product T 1173/97;
 Pension benefit scheme T 931/95)
- Decisive is the technical effect of the invention as defined in the claim when considered as a whole (Koch & Sterzel T26/86).



European Patent Law – Case Law

European Patent Office

CII

Requirements

Examination Practice

What is technical?

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



Technicality

European Patent Office

CII

Requirements

Examination Practice

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
 - ✓ security of a process, rate of data transfer etc.
- technical character may be implied by the physical features of an entity
 - ✓ memory, port etc.



Technicality

European Patent Office

CII

Requirements

Examination Practice

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

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



European Patent Law – Case Law

European Patent Office

CII

Requirements

Examination Practice

Computer Programs

The computer program, when carried out has to provide a "further technical effect".

The normal technical effects like flow of electrical current is not sufficient.

T 1173/97; T 0935/97



European Patent Law – EPO Practice

European Patent Office

CII

Requirements

Examination Practice

further technical effect

control of a brake in a car

faster communication between mobile phones

secure data transmission (encryption of data)

resource allocation in an operating system

no further technical effect

aesthetical effects of music or a video

new rules for an auction scheme

selling and booking sailing cruise packages

calculation of a pension contributions



European Patent Office

CII

Requirements

Examination Practice

Example: non technical

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.



European Patent Office

CII

Requirements

Examination Practice

1. If the subject matter of the claims does **not** comprise a **technical character**

object under Article 52(2) and (3)

No prior art search necessary!



European Patent Office

CII

Requirements

Examination Practice

Example: mix of technical and non-technical

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

- providing an interface for gathering target information quantifying at least one domain selected from the group consisting of;
- sending this target information to a central server
- comparing the target information with a standard stored in the central server, the standard including standard values of the domain; and
- the central server identifying non-standard responses of the target.



European Patent Office

CII

Requirements

Examination Practice

2. If there is a mix of non-technical and technical features:

"requirement specification"

prior art in a field of technology

- = 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



European Patent Office

CII

Requirements

Examination Practice

based on the **technical** implementation set out in the claims and description:

identify
closest prior art
in the field of technology

IF:

so widely known as to be considered as **common-place** e.g. computer network or general purpose computer

THEN:

no **written** evidence is necessary to prove its existence

[possible no-search]

OTHERWISE:

search for the closest document describing the technical features.



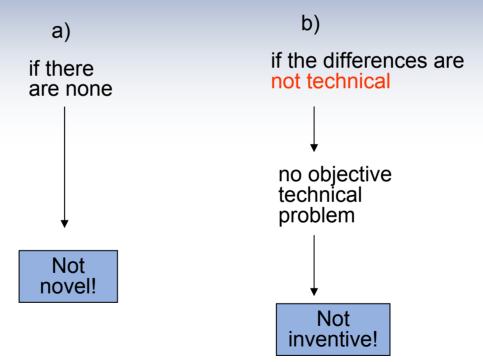
European Patent Office

CII

Requirements

Examination Practice

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





European Patent Office

CII

Requirements

Examination Practice

EPO Practice

- 4. Identify **all the differences** between the subject matter of the claim and the closest prior art
 - c) if differences contain also technical features
 - 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 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

Not inventive!



European Patent Office

CII

Requirements

Examination Practice

Only if also other requirements of the EPC fulfilled

-> GRANT



European Patent Office

CII

Requirements

Examination Practice

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.



European Patent Office

CII

Requirements

Examination Practice

Technical Yes

Mixed type claim Yes

Requirement specs Ordering and paying for goods

Closest prior art Platform for downloading audio

files from the Internet

Differences Debiting mobile phone account

Technical problem None

no inventive step involved



European Patent Office

CII

Requirements

Examination Practice

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 are at least partially encrypted by a password.



European Patent Office

CII

Requirements

Examination Practice

Technical Yes

Mixed type claim Yes

Requirement specs Ordering and paying for goods

Closest prior art Platform for downloading audio

files from the Internet

Differences Debiting mobile phone account

and encrypting purchase data

Technical problem Enhance data security

Solution obvious Was encryption known?



The outcome

European Patent Office

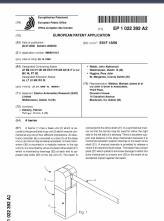
CII

Requirements

Examination Practice

- Applications ending with a refusal or a withdrawal:

- in the cluster "computers": over 50%
- in the field "electronic commerce": over 70%





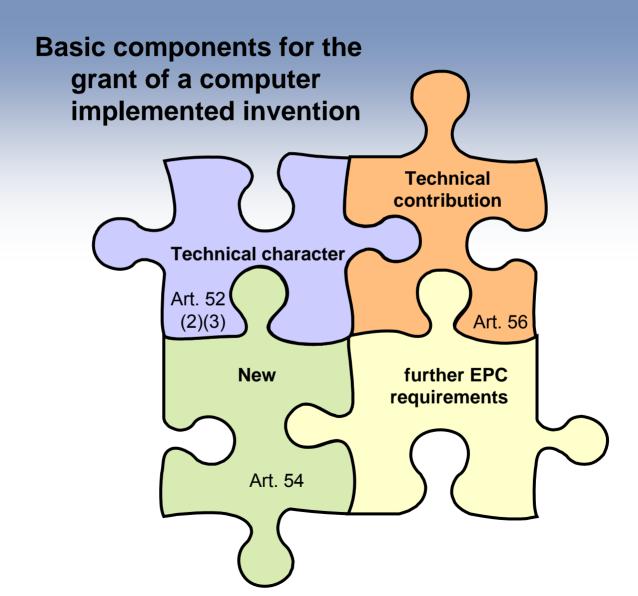
conclusion

European Patent Office

CII

Requirements

Examination Practice





European Patent Office

http://www.european-patent-office.org/

http://www.european-patentoffice.org/legal/guiapp1/pdf/g1de_net.pdf

Guide for applicants

Dr. Clara Neppel Examiner, Dir. 2.2.21, cneppel@epo.org

