

RISIS



RESEARCH INFRASTRUCTURE FOR SCIENCE
AND INNOVATION POLICY STUDIES

Introduction:

Types of patent documents and dimensions of patent analysis operationalised in RISIS Patent Database

RISIS Training / November 8th, 9th, 10th 2021

Thematic and spatial analysis of technologies using Cortext
and RISIS patent database (RPD)





-  Type of patent documents
-  Dimensions of patent analysis



● Patent applications – i.e. not publications

- Closest to invention date

● Priority patent applications - i.e first filings

- Closest to invention date and to information on location of inventions (i.e inventors' addresses)

● Types of priority patent applications

- All priority patent applications

- **2IP5 family**, priority patent applications filtered with a « value » threshold (seen through the markets the patents aim at) : the patent families (including all geographical extensions) that include at least an application in 2 of the main patent offices worldwide (EP, USPTO, China Patent Office, Japan Patent Office)


3 dimensions of patent analysis 1/3

● Institutional

- Within RISIS Patent Database (RPD), applicant names are linked :
- Through **FirmReg** to **firms** - currently large firms (**CIB** dataset) ; soon fast-growing medium-sized firms (**Cheetah** dataset) and venture capital-backed startups (**VICO** dataset)
- Through **OrgReg** to **Public Research Organisations** and **Universities**

3 dimensions of patent analysis 2/3

Thematic

-  Within RISIS Patent Database (RPD), IPC (CPC) classes are linked to : **technological domains** (6 categories), **technological fields** (35 categories), **technological sub-fields** (400 categories); IPC/CPC **main groups** of the classification (6000 categories)

3 dimensions of patent analysis 3/3

Location

-  Within RISIS Patent Database (RPD), inventors' addresses are linked to : **countries, regions, metropolitan areas**

The 3 dimensions of patent analysis in a patent document

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(11) **EP 1 860 578 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
28.11.2007 Bulletin 2007/48

(51) Int Cl.:
G06F 17/30 (2006.01)

**thematic:
= IPC/CPC classes**

(21) Application number: **07009989.0**

(22) Date of filing: **18.05.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(72) Inventors:

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**location:
= inventors' addresses**

**institutional
= applicants**

(30) Priority: **22.05.2006 US 802118 P**

(71) Applicant: **CATERPILLAR INC. Peoria Illinois 61629-6490 (US)**

(54) **System for analyzing patents**

Illustration with the patent application EP07009989

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● Institutional

- **Caterpillar Inc** : FirmReg Id = F_US000664

● Thematic

- **G06F 17/30** : electrical engineering (domain= TD01); computer technology (techno field= TF06); electric digital data processing (techno subfield= T01F06); digital computing or data processing equipment or methods (principal group= G06F17)

● Location

- **Peoria, IL 61629-6490 (US)** : US (country), Illinois (region); Peoria (metropolitan area id= 5308)

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THANK YOU !

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