

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)









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Type of patent documents

Dimensions of patent analysis

Types of patent document



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 subfields (400 categories); IPC/CPC main groups of the classification (6000 categories)

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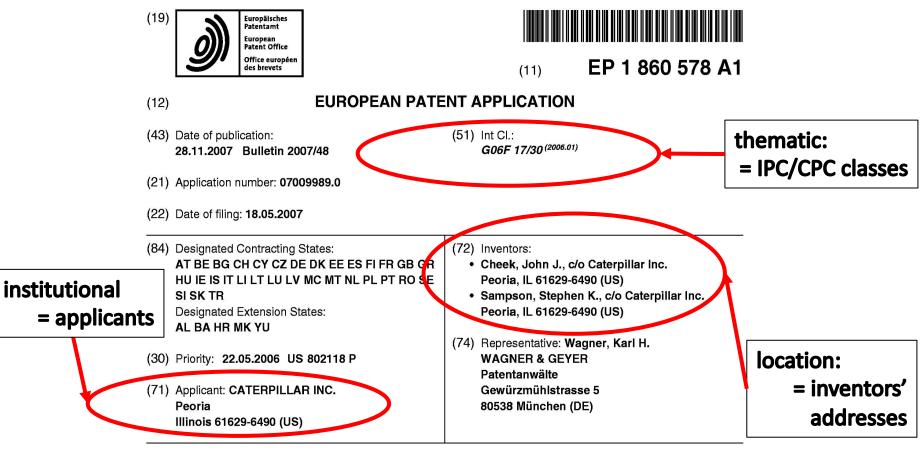
3 dimensions of patent analysis 3/3



Location

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

The 3 dimensions of patent RISIS analysis in a patent document



⁽⁵⁴⁾ System for analyzing patents

Illustration with the patent application EP07009989



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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