varidian GmbH
patent watch

Beyond Features

Effective and Efficient Patent Searches with PatSeer

varidian GmbH
patent watch

varidian GmbH

10 Patent Researches

Mechanical Engineering

Chemistry

Information Technology

Patent Databases

we are currently using at varidian

PatSeer

PatBase

Derwent Innovation

TotalPatent

PatentOne

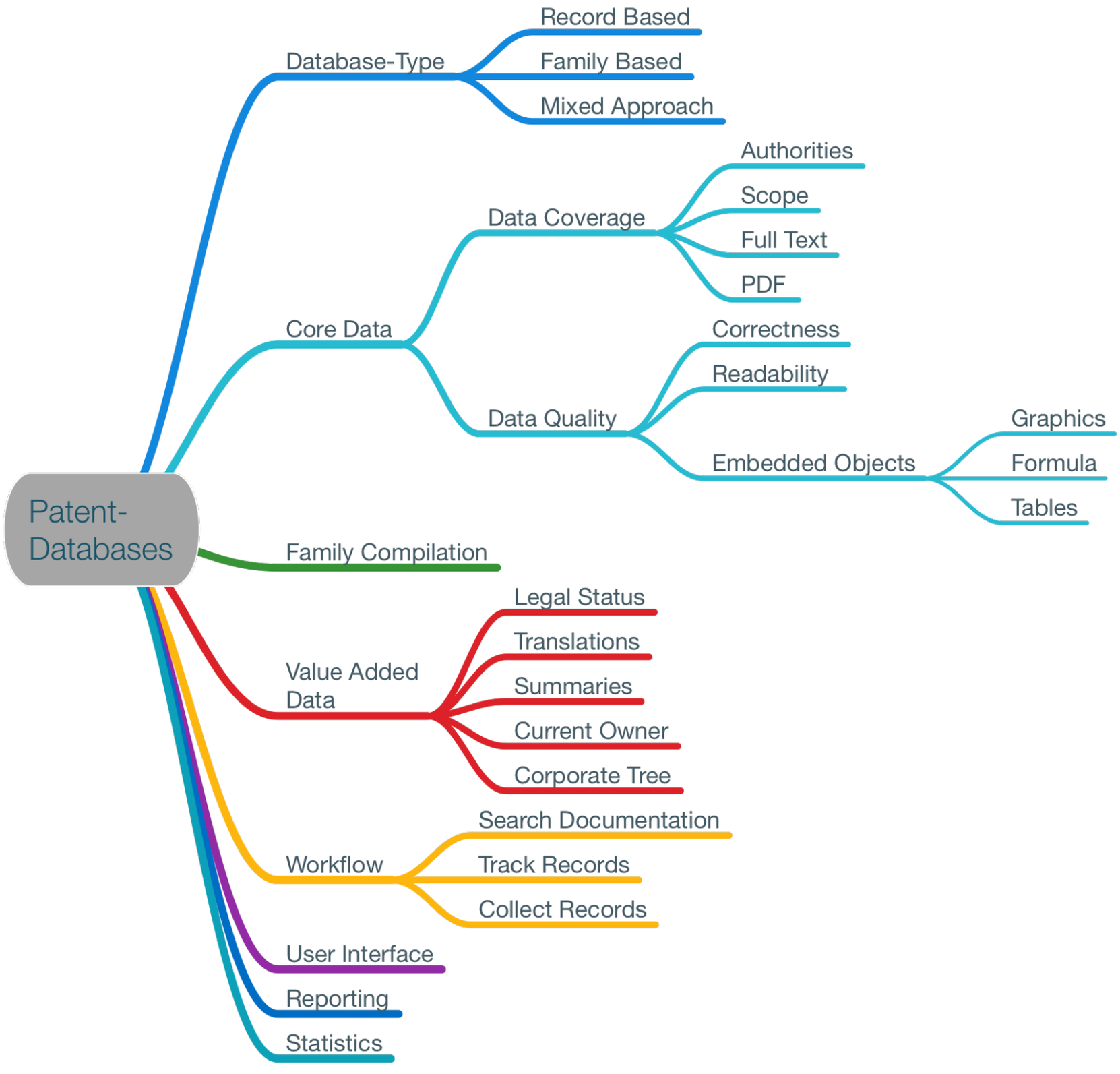
STN

Octimine

IP7

Public Databases

(Orbit)


Patent-Databases
Database-Type
Record Based
Family Based
Mixed Approach
Core Data
Data Coverage
Authorities
Scope
Full Text
PDF
Data Quality
Correctness
Readability
Embedded Objects
Graphics
Formula
Tables
Family Compilation
Value Added Data
Legal Status
Translations
Summaries
Current Owner
Corporate Tree
Workflow
Search Documentation
Track Records
Collect Records
User Interface
Reporting
Statistics

varidian GmbH
patent watch

Workflows

Effective

Do the right thing

- Technical understanding of the subject matter
- Understanding of patent searching
- Creative
- Thorough
- Correct Data

Human Resources +
Data Coverage & Search

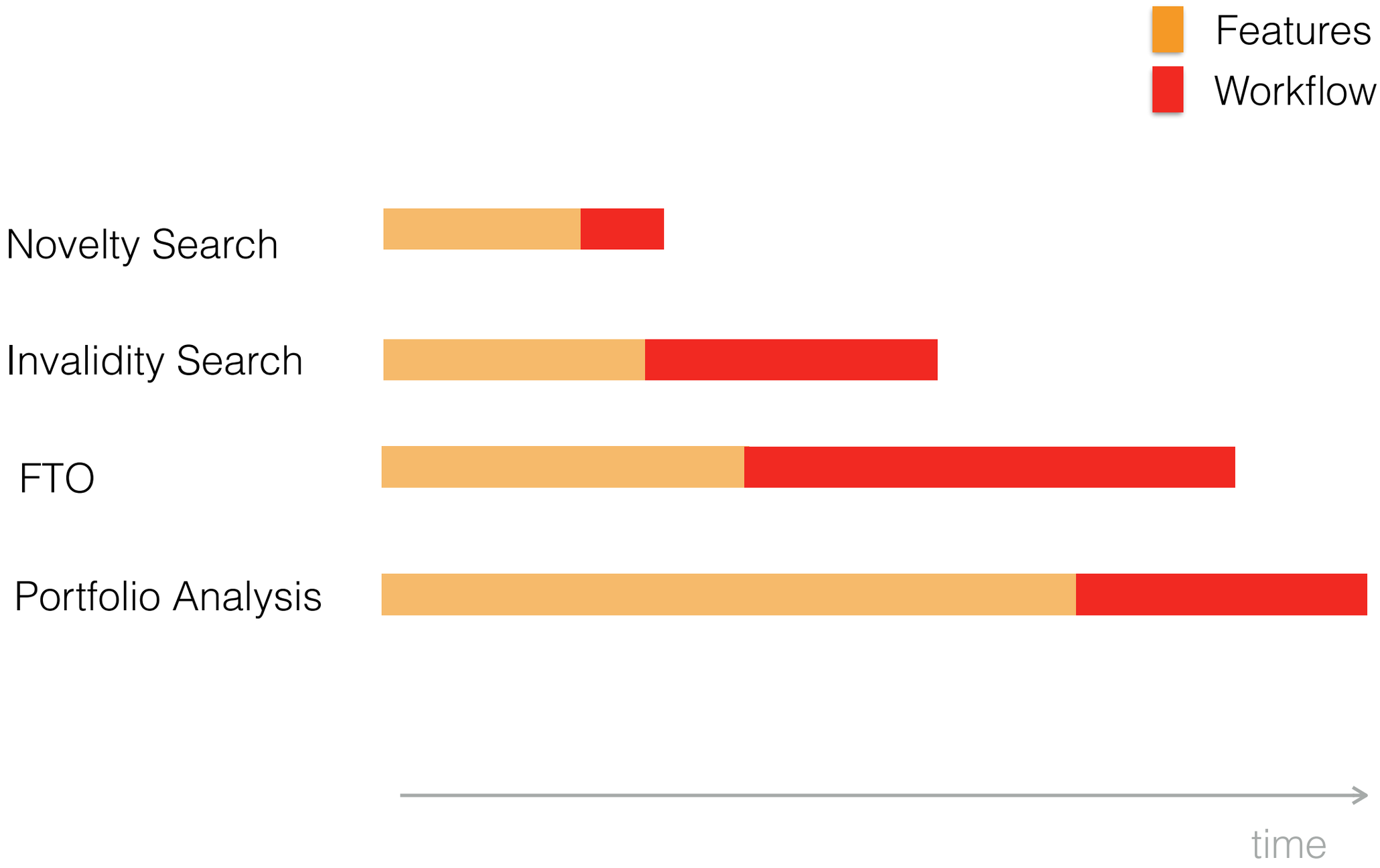
Efficient

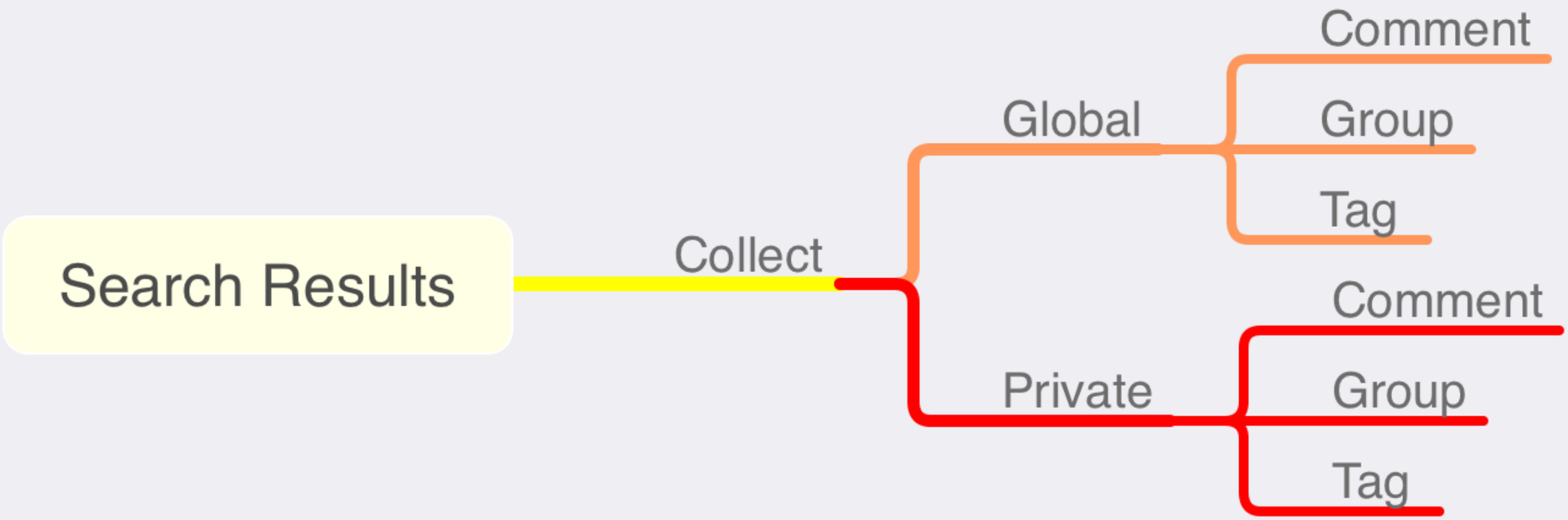
Do things right

- Don’t wast time

Workflows

varidian GmbH
patent watch



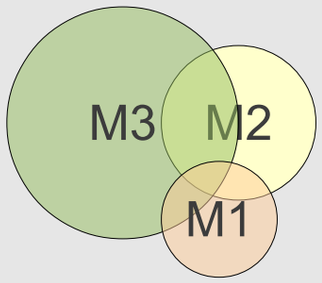

Search Results
Collect
Global
Comment
Group
Tag
Private
Comment
Group
Tag

Collect Records / Families with PatSeer

	Projects	by Saved Search	Recall
Scope	private	private	private + global
Size	60.000	unlimited	unlimited
Method	explicitly added	implicitly added	implicitly added
Tracking	very flexible	ignore / not ignore	relevancy & comments
Annotations	extensive	basic	basic
Documents or Families	both	both	both
Application	FTO & Invalidity Portfolio Analysis	Novelty	Long Term Projects

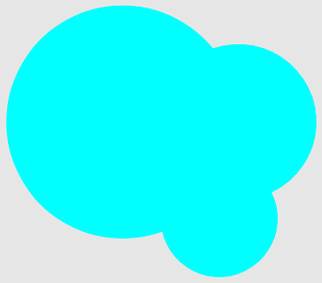
Einfache Strategien

[M1] [M2] [M3]



Schnittmengen werden mehrfach gesichtet

[M1 or M2 or M3]

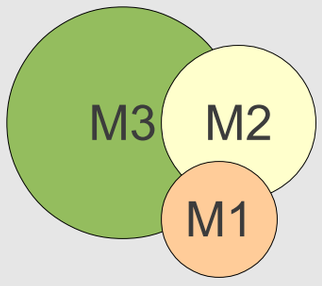


große Treffermenge

alle Suchterme müssen zu Beginn der Recherche vorliegen

varidian Strategie

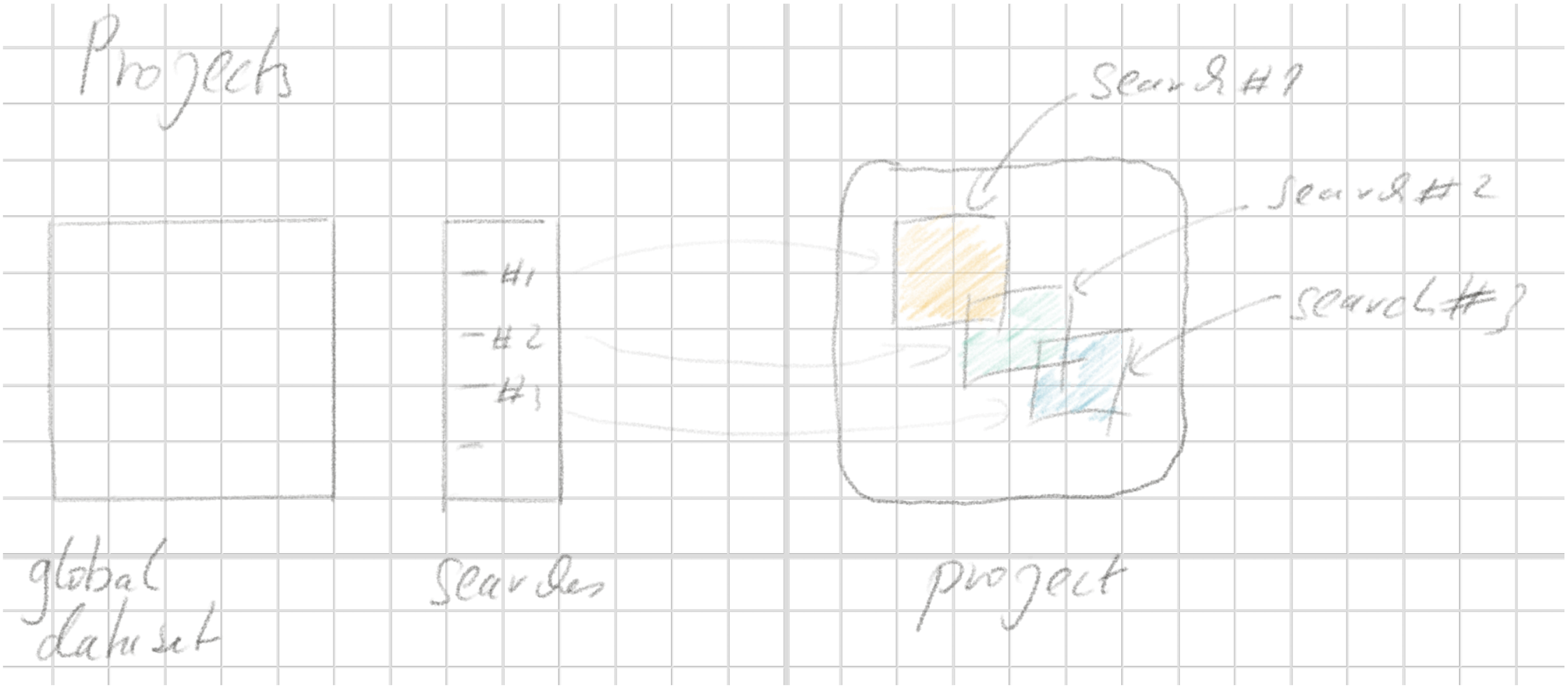
[M1] or [(M2 not M1)] or
[(M3 not (M2 or M1))]



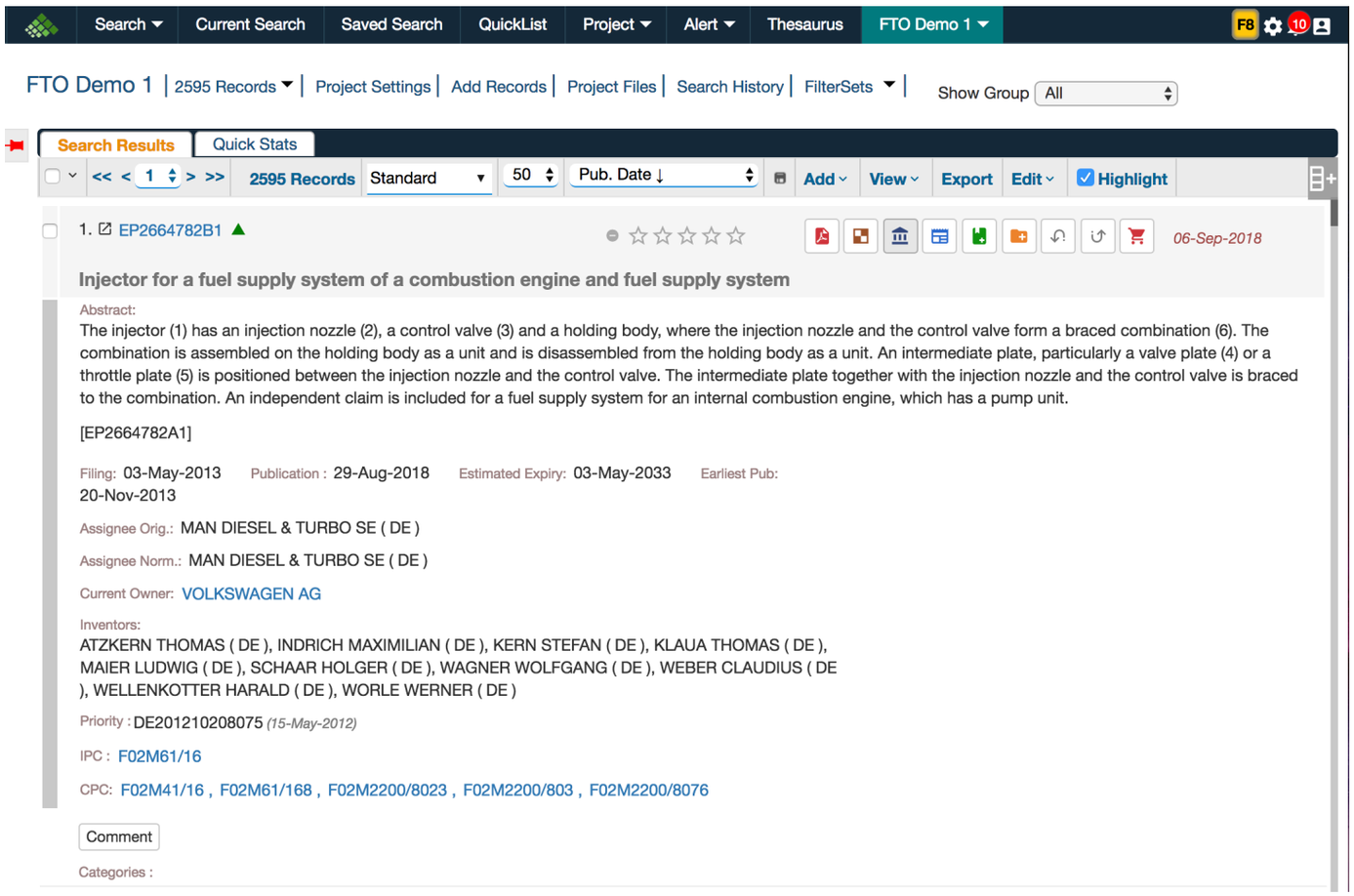
kleine Treffermengen

Schnittmenge werden nur einmal gesichtet

Kategorisierung wird auf Familiendokumente übertragen



- new documents or families are added with each search step
- existing documents or families are ignored



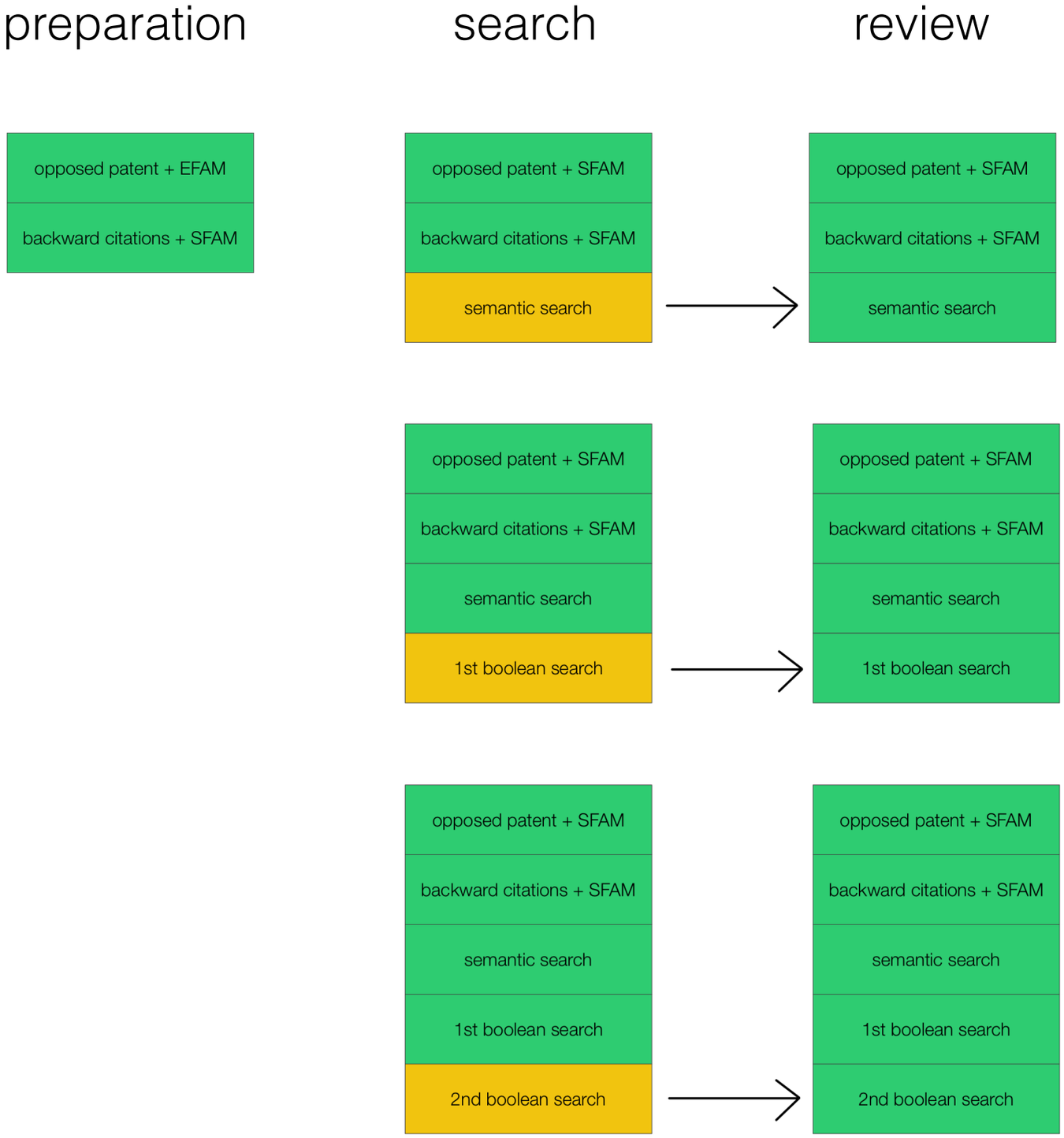
Label	Searches Performed	Records	Date
6	CPC: **F02M61/168**	1592	06-Sep-2018
5	(IC:**F02M55/02** OR CPC:F02M55/02) AND TACDE:(verbindung*)	825	06-Sep-2018
4	(IC:**F02M55/02** OR CPC:F02M55/02) AND TAC:(weld*)	246	06-Sep-2018
3	CPC:**F02M55/025** AND TAC:(weld* OR schweiss*)	134	06-Sep-2018
2	TAC:(common rail AND welding)	110	06-Sep-2018
1	TA:(common rail AND welding)	16	06-Sep-2018

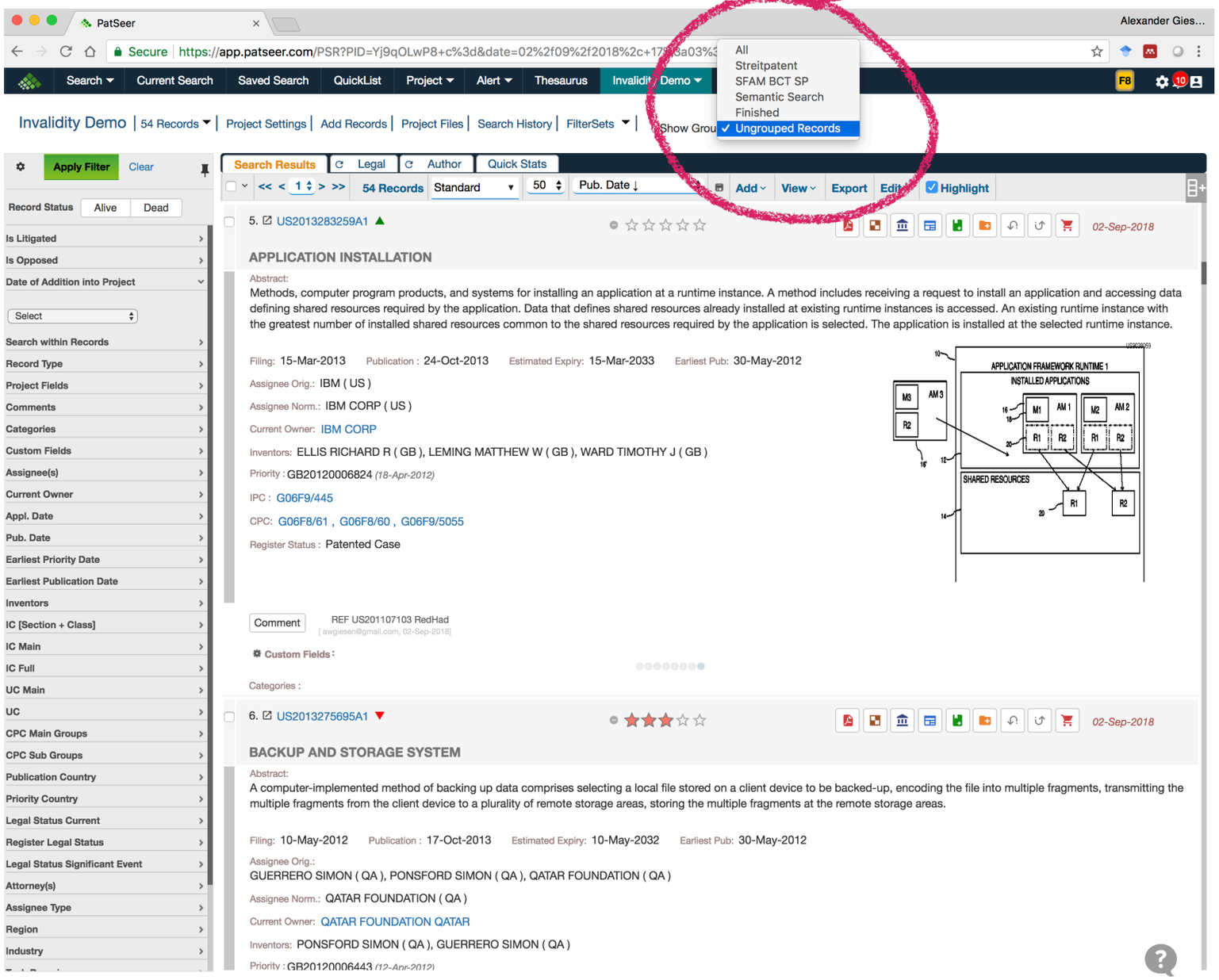
Search Σ 2.923

Project Σ 2595

328

Workflow
Invalidity Search





opposed patent + SFAM

backward citations + SFAM

semantic search

1st boolean search

2nd boolean search

Summary: Workflow for Invalidity Searches

Workflow Tools:

Projects & Groups & Custom Fields (for semantic search scores)

Workflow Details:

add opposed patent & family to a group with the project

add prior art & family members to a group within the project

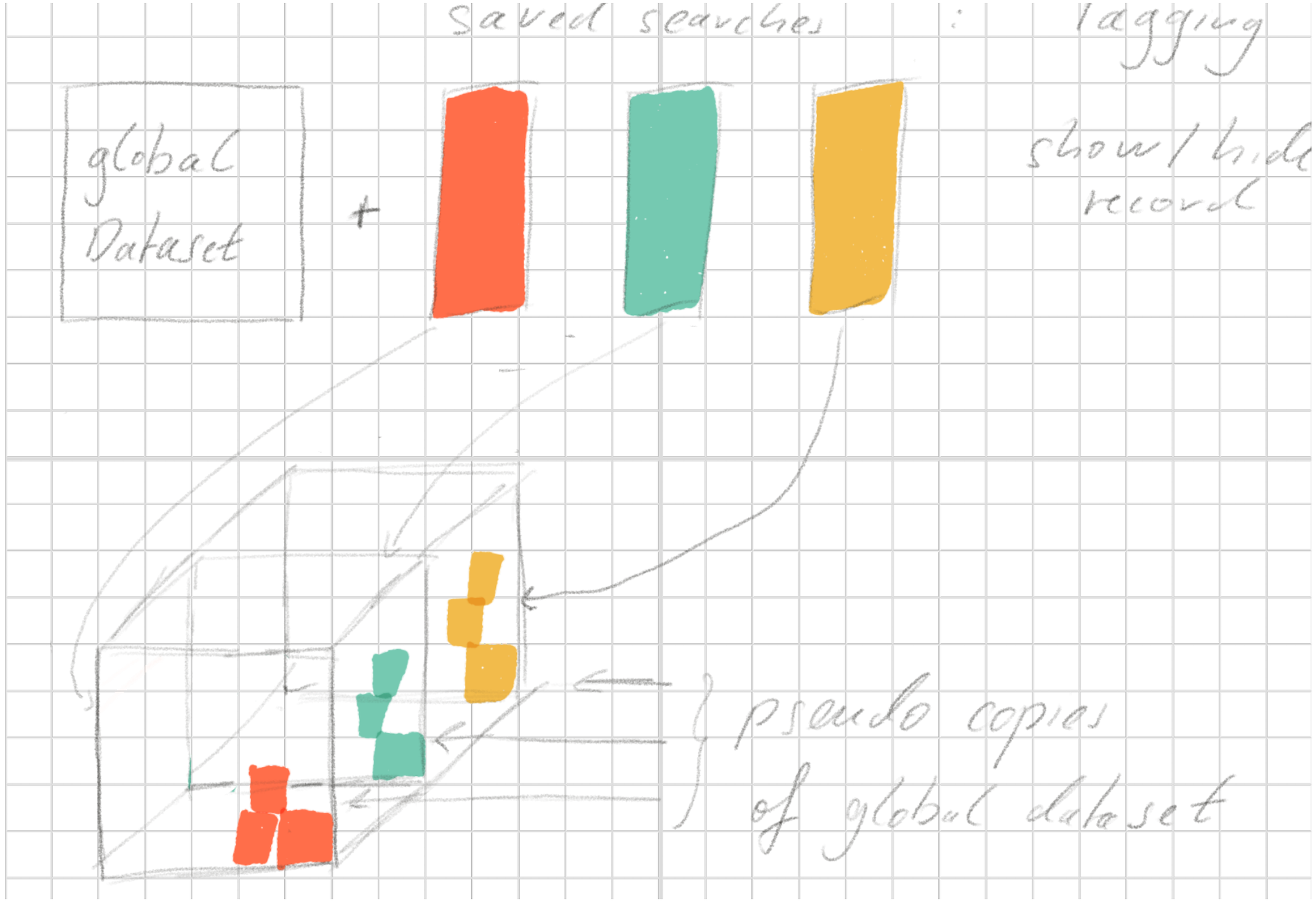
add only new family members obtained by a search to project

expand search in small increments

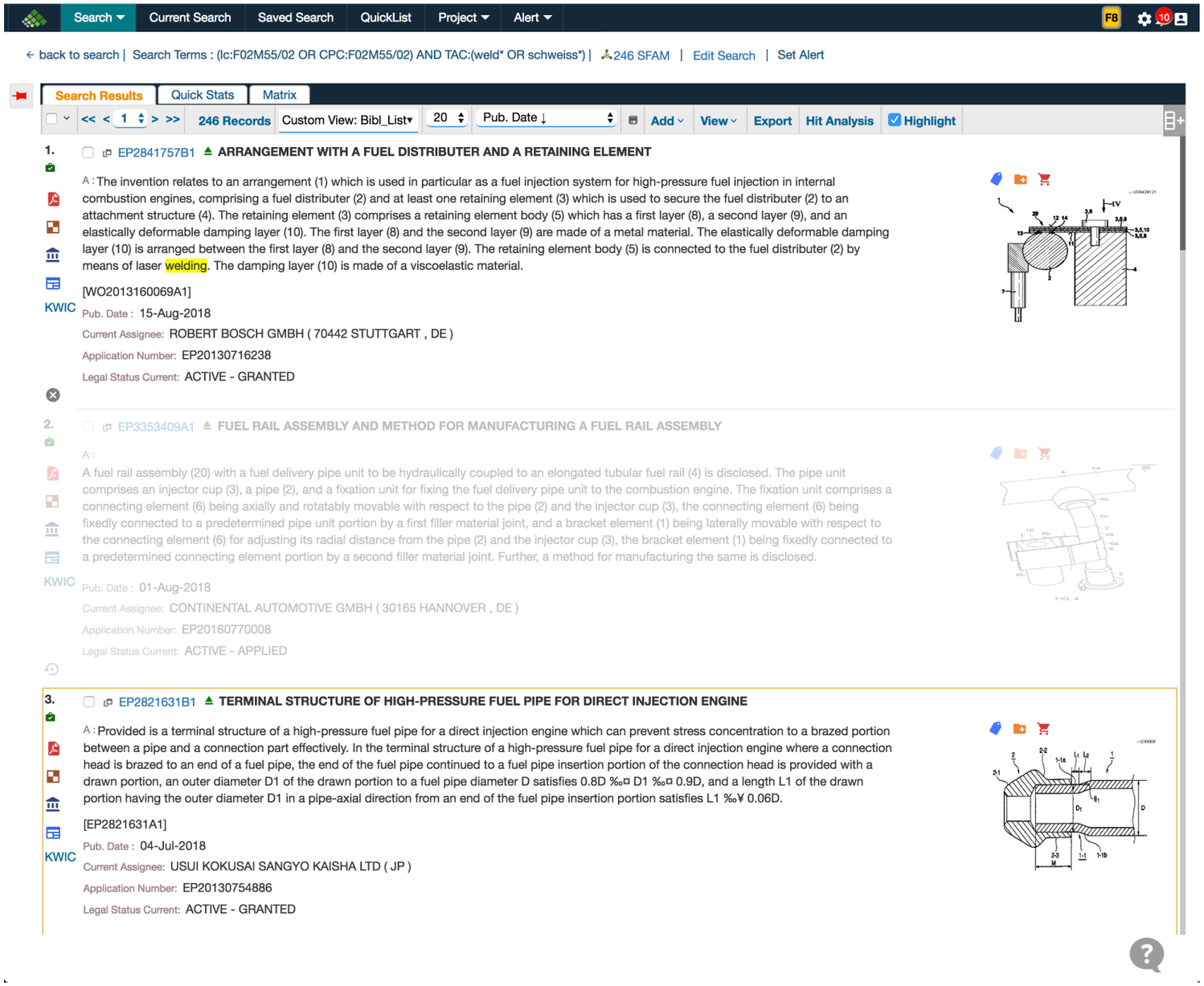
Collect Records / Families with PatSeer

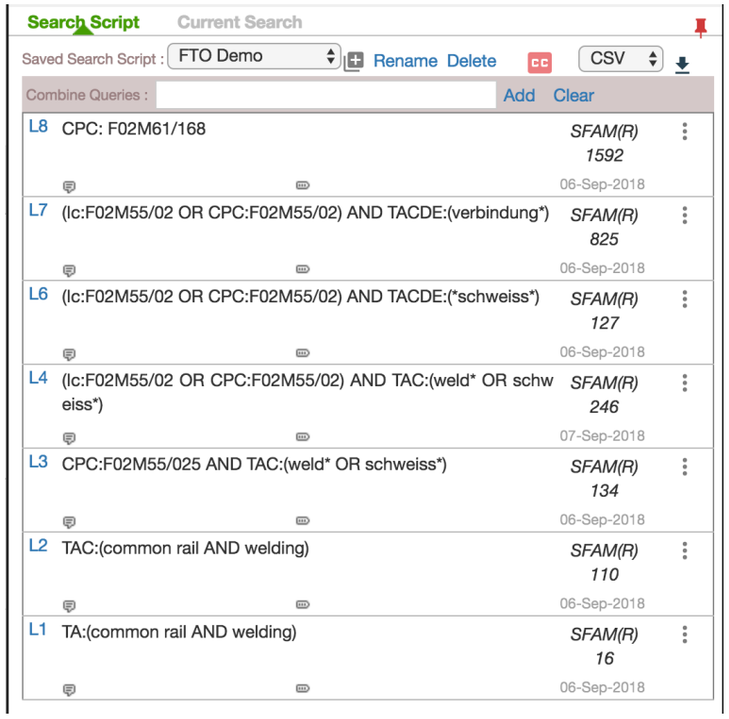
	Projects	by Saved Search	Recall
Scope	private	private	private + global
Size	60.000	unlimited	unlimited
Method	explicitly added	implicitly added	implicitly added
Tracking	very flexible	ignore / not ignore	relevancy & comments
Annotations	extensive	basic	basic
Documents or Families	both	both	both
Application	FTO & Invalidity Portfolio Analysis	Novelty	Long Term Projects

workflow approaches may be combined
for efficient tracking of search results


saved searches
tagging
global Dataset
+
show / hide record
pseudo copies of global dataset

Tagging by Saved Search





Combining Workflow Tools for Invalidity Searches

typical procedure using PatSeer:

- add all known prior art to a Project and Group as „Known Prior Art“
- carry out searches in family mode, restrict by earliest publication date
- mark obviously irrelevant documents using Saved Search tagging
- add potentially relevant documents to the Project,
  known prior art and documents in Project will be excluded automatically
- review and annotate relevant documents in Project
  and produce search report

Features for Improving Workflow Efficiency

Relevant Information

Search | Current Search | Saved Search | QuickList | Project | Alert | F8 | 10

← back to search | Search Terms : TAC:(vehicle W2 battery) AND PBC:(US OR EP OR DE) | 14589 SFAM | Edit Search | Set Alert

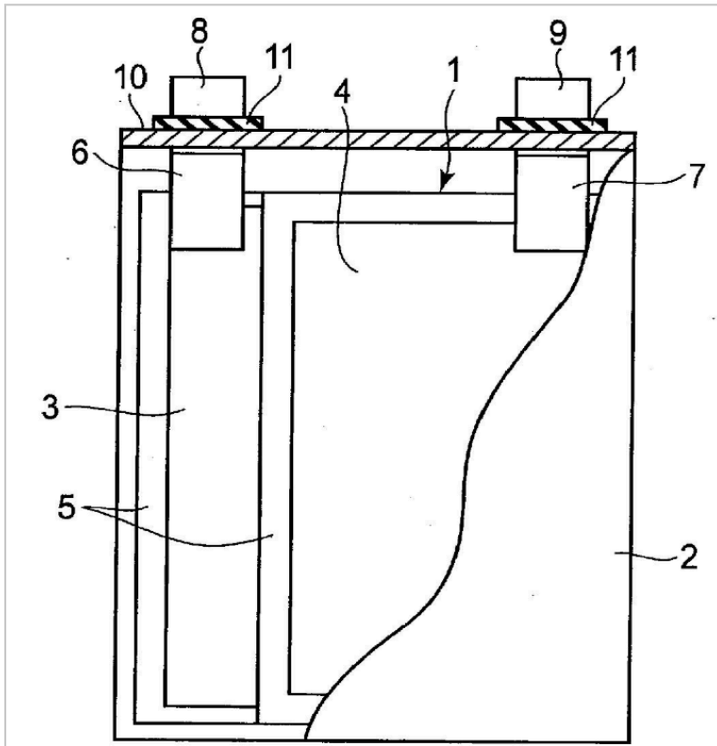
Search Results | Quick Stats | Matrix

<< < 1 > >> | 14589 Records | Drawings | 10 | Pub. Date ↓ | Add | View | Export | Hit Analysis | Highlight

5. US2018241090A1 30-Aug-2017 / 23-Aug-2018 KABUSHIKI KAISHA TOSHIBA (MINATOKU , JP) KWIC

SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND VEHICLE

Abstract: According to one embodiment, a secondary battery includes a positive electrode, a negative electrode and an aqueous electrolyte. The negative electrode includes a titanium-containing oxide. The aqueous electrolyte includes a sodium ion having a concentration of 3 mol/L or more and at least one type of first anion selected from the group consisting of $[N(FSO_2)_2]^-$, SO_3^{2-}, $S_2O_3^{2-}$ and SCN^-.



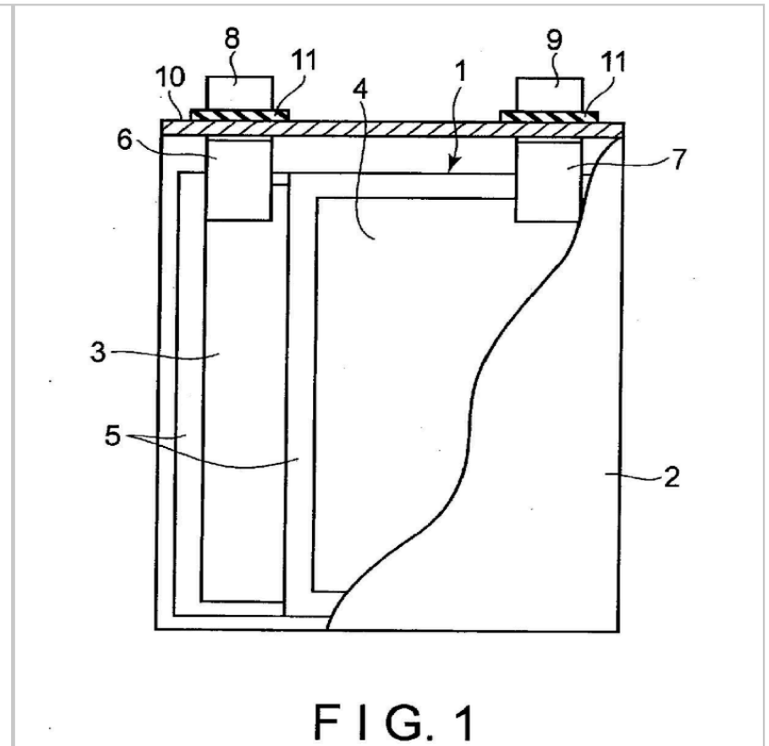


FIG. 1

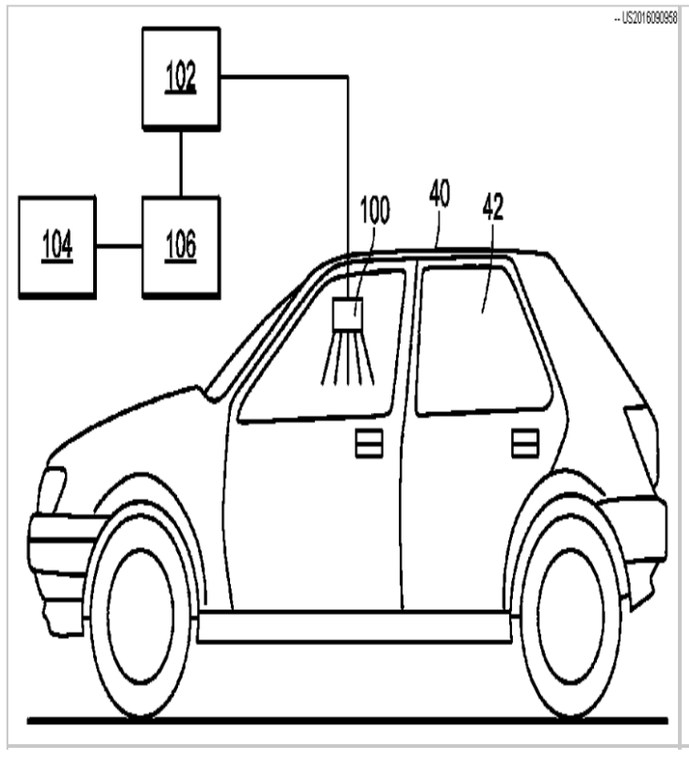
#	Description	Legend No
1	**An electrode group** An electrode group 1 is stored in a rectangular tubular metal container 2	
2	**tubular metal container** An electrode group 1 is stored in a rectangular tubular metal container 2	
3	**a positive electrode** The electrode group 1 has a structure formed by spirally winding a positive electrode 3 and a negative electrode 4 with a separator 5	
4	**a negative electrode** The electrode group 1 has a structure formed by spirally winding a positive electrode 3 and a negative electrode 4 with a separator 5	

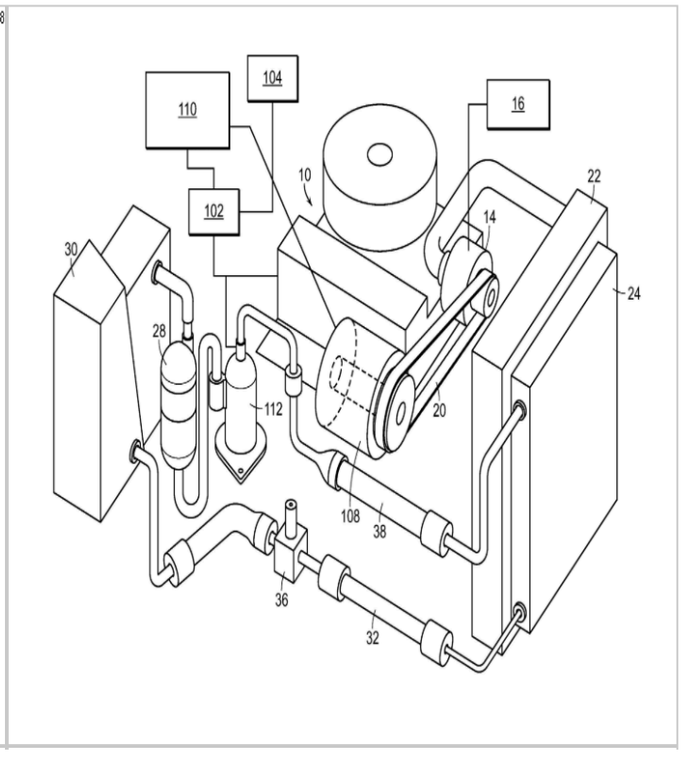
Relevant Information

24. US10054096B2 22-Sep-2015 / 21-Aug-2018 BERKSON BRUCE RICHARD (SEDONA , US) KWIC

Vehicle occupant protection and engine idle reduction system

Abstract: A system for automatically adjusting the temperature and carbon monoxide level in an occupied passenger compartment of a vehicle includes sensors for sensing carbon monoxide levels, temperature, and occupants in the passenger compartment. A controller receives input from the sensors, and activates an electric heater or an electric cooler to bring the temperatures within the passenger compartment within a predetermined temperature range if the temperature detected within the passenger compartment falls outside of the predetermined range of temperatures. The controller may automatically shut off the engine of the vehicle when the vehicle is in idle and the carbon monoxide level within the passenger compartment falls above a predetermined level, or if a transmission lever of the vehicle is placed in a park position. A motor generator unit coupled to the engine provides electricity to rechargeable batteries of an alternate power unit, which powers the electric heater and the electric cooler.





#	Description	Legend No.
	compressor 18	
36	**refrigerant charge tube** The evaporated refrigerant is then passed through tubing 32 , through one or more orifices 34 , a refrigerant charge tube 36 , and then onto the condenser 24 , before being returned via tubing 38 to the mechanical air conditioning compressor 18	
38	**returned via tubing** The evaporated refrigerant is then passed through tubing 32 , through one or more orifices 34 , a refrigerant charge tube 36 , and then onto the condenser 24 , before being returned via tubing 38 to the mechanical air conditioning compressor 18	
40	**a vehicle** 2 , a vehicle 40	

Automatic Documentation

ID	Search String	Deduped	Records	Comments	Tags
L37	(IC:E04G1/34 OR CPC:E04G1/34) AND EPBD:[1950-01-01 TO 2017-01-05]	SFAM	462	all checked	E04G1/34
L28	(IC:E04G1/365 OR CPC:E04G1/365) AND EPBD:[1950-01-01 TO 2017-01-05]	SFAM	70	all checked	E04G1/365
L14	(IC:E06C7/16 OR CPC:E06C7/16) AND EPBD:[1900-01-01 TO 2017-01-05]	SFAM	1625	all checked	E06C7/16
L33	AC: E06C7/16 AND TAC$:(strebe*) AND EPBD:[1950-01-01 TO2017-01-05]	SFAM	19	all checked	E06C7/16
L22	(IC:E06C7/42 OR CPC:E06C7/42) AND EPBD:[2010-01-01 TO 2017-01-05]	SFAM	277	all checked	E06C7/42
L27	(IC:E06C7/426 OR CPC:E06C7/426) AND EPBD:[1950-01-01 TO 2017-01-05]	SFAM	119	all checked	E06C7/426
L12	(IC:E06C7/44 OR CPC:E06C7/44) AND EPBD:[1950-01-01 TO 1970-01-01]	SFAM	146	all checked	E06C7/44
L11	(IC:E06C7/44 OR CPC:E06C7/44) AND EPBD:[1970-01-01 TO 1980-01-01]	SFAM	157	all checked	E06C7/44
L10	(IC:E06C7/44 OR CPC:E06C7/44) AND EPBD:[1980-01-01 TO 1990-01-01]	SFAM	241	all checked	E06C7/44
L9	(IC:E06C7/44 OR CPC:E06C7/44) AND EPBD:[1990-01-01 TO 2000-01-01]	SFAM	265	all checked	E06C7/44
L8	(IC:E06C7/44 OR CPC:E06C7/44) AND EPBD:[2000-01-01 TO 2010-01-01]	SFAM	254	all checked	E06C7/44
L7	(IC:E06C7/44 OR CPC:E06C7/44) AND EPBD:[2010-01-01 TO 2018-02-20]	SFAM	134	all checked	E06C7/44
L32	TAC$:(stütz* W2 leiter) AND EPBD:[1950-01-01 TO 2017-01-05]	SFAM	270	all checked	keywords
L29	TAC:(ladder support) EPBD:[2000-01-01 TO 2017-01-05]	SFAM	341	all checked	keywords
L35	TACDE:(strebe* W12 traverse) AND EPBD:[1950-01-01 TO 2017-01-05]	SFAM	96	all checked	keywords

Summary and Structure of IPC AND CPC used in a Saved Search

E	FIXED CONSTRUCTIONS
E04	BUILDING
E04G	SCAFFOLDING; FORMS; SHUTTERING; BUILDING IMPLEMENTS OR OTHER BUILDING AIDS, OR THEIR USE; HANDLING BUILDING MATERIALS ON THE SITE; REPAIRING, BREAKING-UP OR OTHER WORK ON EXISTING BUILDINGS
E04G1/00	Workmen s or safety scaffolds; Scaffolds primarily resting on the ground
E04G1/34	. Scaffold constructions able to be folded in prismatic or flat parts or able to be turned down
E04G1/36	. Scaffolds for particular parts of buildings or buildings of particular shape, e . g . for stairs, cupolas, domes scaffolding usable on slipways and in dry docks B63C5/02
E04G1/365	. . specially adapted for staircases or stairs
E06	DOORS, WINDOWS, SHUTTERS, OR ROLLER BLINDS IN GENERAL; LADDERS
E06C	LADDERS
E06C7/00	Component parts, supporting parts, or accessories
E06C7/16	. Platforms on, or for use on, ladders, e . g . liftable or lowerable platforms
E06C7/42	. Ladder feet; Supports therefor
E06C7/426	. . Height adjustable supports for receiving both ladder feet
E06C7/44	. . Means for mounting ladders on uneven ground

Hierarchical IPC / CPC Class Search

IC:G03G9/08$ will search the full hierarchy !

	G03G 7/00	**Selection of materials for use in image-receiving members, i.e. for reversal by physical contact; Manu thereof** (photosensitive materials for photographic purposes G03C) [1, 2006.01]
	G03G 8/00	**Layers covering the final reproduction, e.g. for protecting, for writing thereon** [2, 2006.01]
	G03G 9/00	**Developers** [1, 5, 2006.01]
	G03G 9/06	. the developer being electrolytic [1, 2006.01]
	G03G 9/08	. with toner particles [2, 2006.01]
	G03G 9/083	. . Magnetic toner particles [5, 2006.01]
	G03G 9/087	. . Binders for toner particles [5, 2006.01]
	G03G 9/09	. . Colouring agents for toner particles [5, 2006.01]
	G03G 9/093	. . Encapsulated toner particles [5, 2006.01]
	G03G 9/097	. . Plasticisers; Charge controlling agents [5, 2006.01]
	G03G 9/10	. . characterised by carrier particles [2, 5, 2006.01]
	G03G 9/107	. . . having magnetic components [5, 2006.01]
	G03G 9/113	. . . having coatings applied thereto [5, 2006.01]
	G03G 9/12	. . in liquid developer mixtures [2, 2006.01]
	G03G 9/125	. . . characterised by the liquid [5, 2006.01]
	G03G 9/13	. . . characterised by polymer components [5, 2006.01]
	G03G 9/135	. . . characterised by stabiliser or charge-controlling agents [5, 2006.01]
	G03G 9/16	. Developers not provided for in groups G03G 9/06-G03G 9/135, e.g. solutions, aerosols [2, 2006.01]
	G03G 9/18	. . Differentially-wetting liquid developers [2, 2006.01]