



AI-SUPPORTED CLASSIFICATION

PIERRE HELD | CPC CO-OPERATION MANAGER, EUROPEAN AND INTERNATIONAL AFFAIRS | IP5 WORKING GROUP 1, 20-23 FEBRUARY 2024

AI for preclassification (file routing)

PRECLASSIFICATION BY AI



Internal AI engine in production for all patent applications



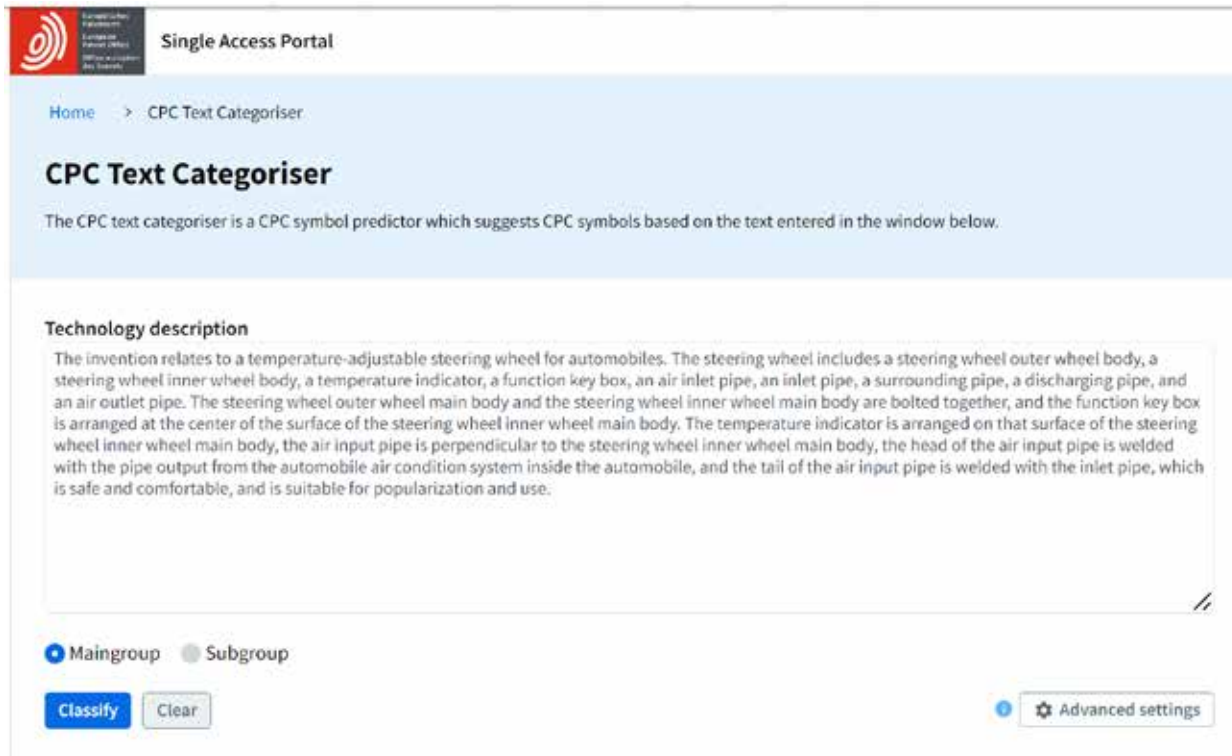
90% of these files are routed by AI - 10% intellectually



90% accuracy in sending file to appropriate directorate

AI for classification

AI POWERED CPC TEXT CATEGORISER



The screenshot shows the 'Single Access Portal' for the 'CPC Text Categoriser'. It includes a navigation breadcrumb 'Home > CPC Text Categoriser', a title 'CPC Text Categoriser', and a description: 'The CPC text categoriser is a CPC symbol predictor which suggests CPC symbols based on the text entered in the window below.' A 'Technology description' section contains a paragraph about a temperature-adjustable steering wheel. At the bottom, there are radio buttons for 'Maingroup' (selected) and 'Subgroup', a 'Classify' button, a 'Clear' button, and an 'Advanced settings' button with a gear icon.

Single Access Portal

Home > CPC Text Categoriser

CPC Text Categoriser

The CPC text categoriser is a CPC symbol predictor which suggests CPC symbols based on the text entered in the window below.

Technology description

The invention relates to a temperature-adjustable steering wheel for automobiles. The steering wheel includes a steering wheel outer wheel body, a steering wheel inner wheel body, a temperature indicator, a function key box, an air inlet pipe, an inlet pipe, a surrounding pipe, a discharging pipe, and an air outlet pipe. The steering wheel outer wheel main body and the steering wheel inner wheel main body are bolted together, and the function key box is arranged at the center of the surface of the steering wheel inner wheel main body. The temperature indicator is arranged on that surface of the steering wheel inner wheel main body, the air input pipe is perpendicular to the steering wheel inner wheel main body, the head of the air input pipe is welded with the pipe output from the automobile air condition system inside the automobile, and the tail of the air input pipe is welded with the inlet pipe, which is safe and comfortable, and is suitable for popularization and use.



Maingroup Subgroup

CPC symbol
predictions with AI

AI POWERED CPC TEXT CATEGORISER – VIEW RESULTS

Top 10 results at Subgroup level

1 Confidence level: 0.9

B	PERFORMING OPERATIONS; TRANSPORTING	2013-01	
	TRANSPORTING		
B62	LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS	2013-01	
B62D	MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B69/00; wheels, castors, axles, increasing wheel adhesion B60B; vehicle tyres, tyre inflat...	2013-01	
B62D 1/00	Steering controls, i.e. means for initiating a change of direction of the vehicle	2013-01	
B62D 1/02	▪ vehicle-mounted	2013-01	
B62D 1/04	•• Hand wheels	2013-01	
B62D 1/06	••• Rims, e.g. with heating means; Rim covers (B62D1/11 takes precedence)	2013-01	
B62D 1/065	•••• Steering wheels with heating and ventilating means (heating and ventilating arrangements for spaces of vehicles B60H)	2013-01	

Subclass definition (PDF)

Link to Espacenet browser

2 Confidence level: 0.2

B	PERFORMING OPERATIONS; TRANSPORTING	2013-01	
	TRANSPORTING		

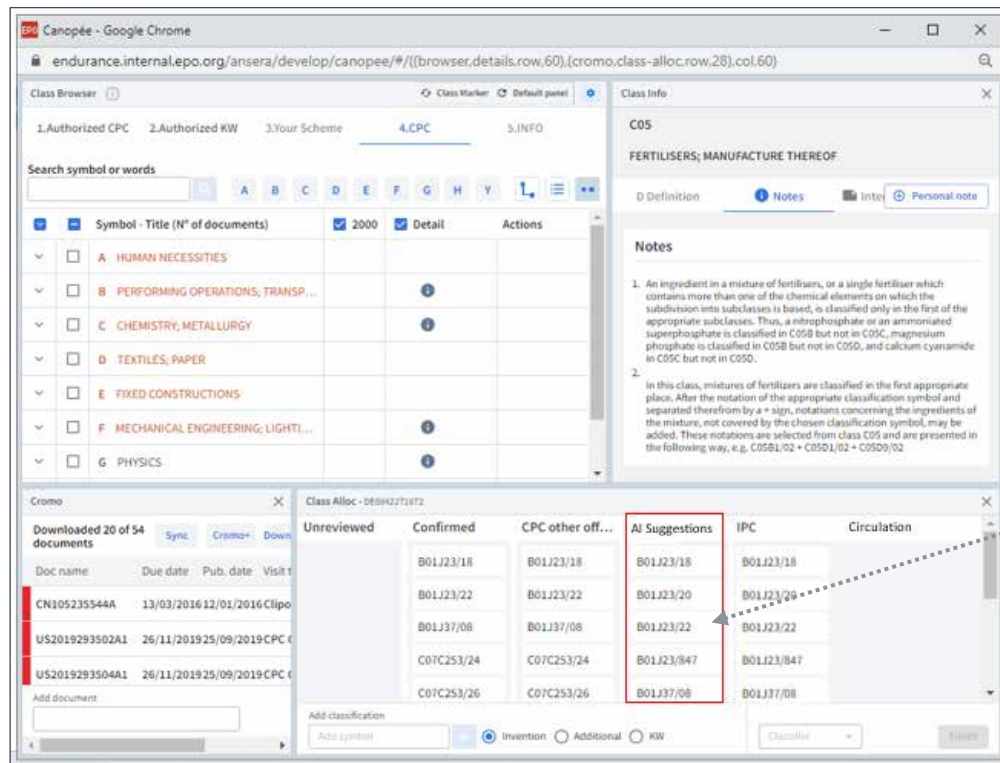
AI-GENERATED CPC FOR CLIMATE CHANGE MITIGATION TECHNOLOGIES

<input type="checkbox"/> Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS [2013-01]
<input type="checkbox"/> Y02	TECHNOLOGIES OR APPLICATIONS FOR MITIGATION OR ADAPTATION AGAINST CLIMATE CHANGE [2018-01]
<input type="checkbox"/> Y02A	TECHNOLOGIES FOR ADAPTATION TO CLIMATE CHANGE [2018-01]
<input type="checkbox"/> Y02B	CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO BUILDINGS, e.g. HOUSING, HOUSE APPLIANCES OR RELATED END-USER APPLICATIONS [2018-05]
<input type="checkbox"/> Y02C	CAPTURE, STORAGE, SEQUESTRATION OR DISPOSAL OF GREENHOUSE GASES [GHG] [2013-01]
<input type="checkbox"/> Y02D	CLIMATE CHANGE MITIGATION TECHNOLOGIES IN INFORMATION AND COMMUNICATION TECHNOLOGIES [ICT], I.E. INFORMATION AND COMMUNICATION TECHNOLOGIES AIMING AT THE REDUCTION OF THEIR OWN ENERGY USE [2020-08]
<input type="checkbox"/> Y02E	REDUCTION OF GREENHOUSE GAS [GHG] EMISSIONS, RELATED TO ENERGY GENERATION, TRANSMISSION OR DISTRIBUTION [2018-05]
<input type="checkbox"/> Y02P	CLIMATE CHANGE MITIGATION TECHNOLOGIES IN THE PRODUCTION OR PROCESSING OF GOODS [2015-11]
<input type="checkbox"/> Y02T	CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO TRANSPORTATION [2017-05]
<input type="checkbox"/> Y02W	CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO WASTEWATER TREATMENT OR WASTE MANAGEMENT [2015-05]

Since August 2022, CPC groups in Y02/Y04 are populated with the use of AI:

- 372 entries
- Easier maintenance than preparations
- Updates can be done more frequently (twice per week currently)

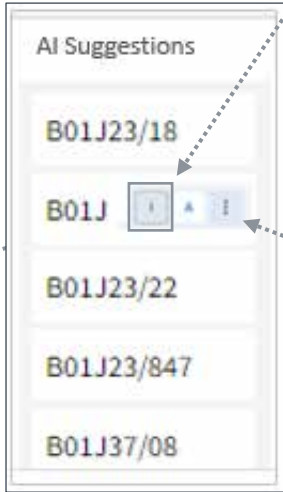
AI-SUPPORTED CLASSIFICATION






The screenshot shows the Canopée interface in Google Chrome. The main window displays a class browser with a search bar and a list of classes (A-G). The 'Class Info' window for class C05 is open, showing its definition and notes. Below, a table lists documents with columns for 'Unreviewed', 'Confirmed', 'CPC other off...', 'AI Suggestions', 'IPC', and 'Circulation'. The 'AI Suggestions' column is highlighted with a red box, and a callout box points to it with the text 'Allocate symbol as Invention or Additional information'. Another callout box points to a delete icon in the AI suggestions list with the text 'Delete'.

Doc name	Due date	Pub. date	Visit	Unreviewed	Confirmed	CPC other off...	AI Suggestions	IPC	Circulation
					B01J23/18	B01J23/18	B01J23/18	B01J23/18	
					B01J23/22	B01J23/22	B01J23/20	B01J23/20	
					B01J37/08	B01J37/08	B01J23/22	B01J23/22	
CN105235544A	13/03/2016	12/01/2016	Clipo				B01J23/847	B01J23/847	
US2019293502A1	26/11/2019	25/09/2019	CPC		C07C253/24	C07C253/24	B01J23/08	B01J23/08	
US2019293504A1	26/11/2019	25/09/2019	CPC		C07C253/26	C07C253/26	B01J37/08	B01J37/08	

Allocate symbol as Invention or Additional information



AI Suggestions

- B01J23/18
- B01J   
- B01J23/22
- B01J23/847
- B01J37/08

Delete

AI for reclassification

Projects > RP0676_SA32

RP0676_SA32

EPUS NPL IRWL - Created on 23/12/2022 15:42:38

[Download report](#) [Finish Reclassification](#)

Project progress

Overview at Project Level - EPUS IRWL Help on AI assistant Intellectual recl. at project level

Required Quality Level: 90%

Total number of documents: 3859

Documents fully reclassified (for all source groups): 18

Docs. reclassified by exs. for at least one source group: 18

Docs. reclassified by AI for at least one source group: 0

Supported by AI: 824

Not supported by AI: 235

Overview per source group of RCL

Source group	Type	Transfer type	Nbr. of RCL destination groups	AI stage	Total number of documents	Docs. not in status "recla. completed"	Reclassified by examiner	Reclassified by AI	Supported by AI
B2WC10/00	C	INT	1	Not started	10	10	0	0	9
B2WC10/00	C	INT	1	Not started	10	10	0	0	9
B2WC10/04	C	INT	2	Not started	10	10	0	0	7
B2WC10/54	C	INT	1	QC 1	1002	1004	18	0	796
B2WC09/0001	Intellectual recl. for this group AI recl. for this group			Not started	10	10	0	0	8

All 5 loaded.

§ AI trained by examiner

§ AI makes suggestions and selects best batch of documents - examiner checks quality of test batch. If quality is good enough, best batch is automatically reclassified and allocations assigned

§ Following iterations incorporate all previous reclassification work (from AI and examiner) as training set

THANK YOU!

More information on the CPC? www.cpcinfo.org

Contact us at cpc@epo.org