IPRally

Custom patent classifier

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Based on IPRally's cutting-edge graph AI, it can be trained, adjusted and set up in minutes. The classifier brings structure to the global patent data and gives you immediate insights to your search, monitoring, benchmarking or competitive intelligence projects.
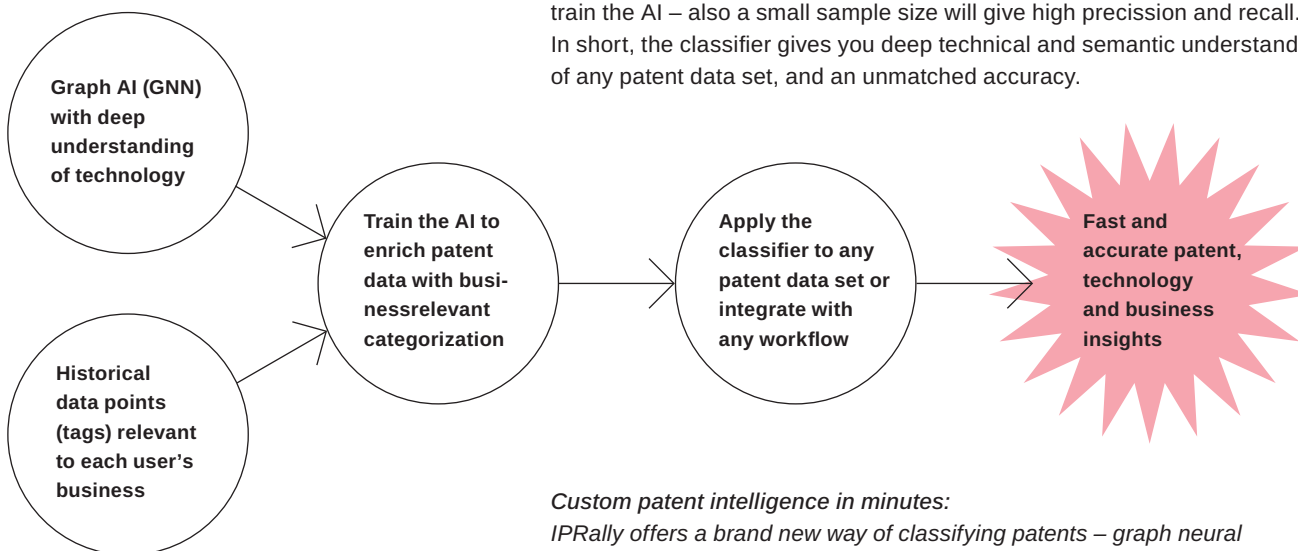
Apply your own terminology

Use your own language and get rid of any semantic barriers that may stand in the way of your business insights. The custom classifier allows you to train the AI with your historical data to learn your organization's unique classes and categories, and their technical characteristics. You can then apply these on any patents that share the same characteristics, to search and analyze the patent landscape through your own lens. Patent classification has never been easier and faster.

Quick, simple and self-service

The custom classifier is ridiculously easy to use and brings immediacy and control to your patent intelligence projects. With a simple spreadsheet of training data and a few clicks, you can set up, adjust and apply your custom classifier in minutes. Then let the AI do the work and spend the hours, or money, you used to invest in manual data processing on something else.

GNN level accuracy

IPRally's proprietary tested and proven graph neural network (GNN) technology sets the standard for the classifier. Being excellent for bringing structure to large datasets, GNNs allow complex technical relationships to be understood and processed fast. No massive data sets are needed to train the AI – also a small sample size will give high precission and recall. In short, the classifier gives you deep technical and semantic understanding of any patent data set, and an unmatched accuracy.

Graph AI (GNN) with deep understanding of technology

Historical data points (tags) relevant to each user's business

Train the AI to enrich patent data with busi-nessrelevant categorization

Apply the classifier to any patent data set or integrate with any workflow

Fast and accurate patent, technology and business insights

Custom patent intelligence in minutes:
IPRally offers a brand new way of classifying patents – graph neural networks learning from your existing categorized data. Being completely custom, it allows you to understand the global patent landscape using your organization's unique terminology.

Automated and intelligent data classification

Search intelligence

Get immediate insights to data in every search, with automatically categorized and labelled data in your results. Use previous labels to speed up your next searches.

Monitoring

Get automatic techno-logy alerts, enriched and categorized for faster decisions. Have your competitors' new appli-cations pre-categorized for distribution to the right recipients.

Analysis

Segment, audit and benchmark portfolios to identify technical overlaps in seconds. Perform landscape analysis, monetization, technology scouting and due diligence using your own terminology.
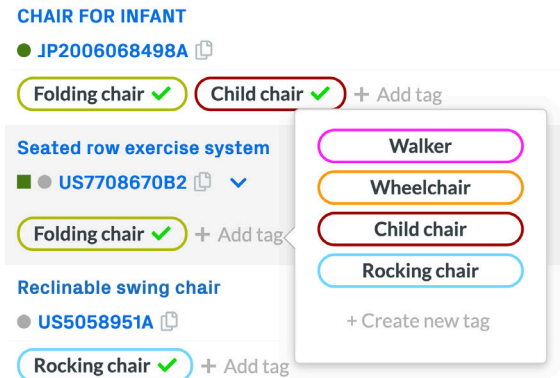
Communication

Make data accessible to all user groups – search and find data using custom categories instead of keywords and classes. Share and gather further intelligence from your organization.
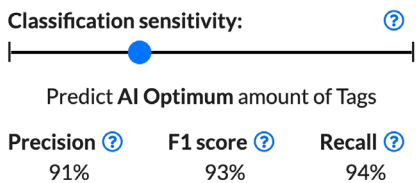
Build your custom classifier in minutes

1. Train the AI

Upload your training data set to IPRally's classifier. A spread sheet with two columns is enough: patents and corresponding categories, that will generate tags. You can also create a training set from your search results. Then define your tags and train the AI with their unique attributes.

CHAIR FOR INFANT
● **JP2006068498A** ⧉
(Folding chair ✔) (Child chair ✔) + Add tag

Seated row exercise system
■ ● **US7708670B2** ⧉ ⌄
(Folding chair ✔) + Add tag

| Walker |
| Wheelchair |
| Child chair |
| Rocking chair |
| + Create new tag |

Reclinable swing chair
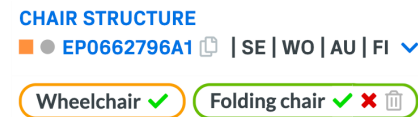● **US5058951A** ⧉
(Rocking chair ✔) + Add tag

2. Adjust

IPRally will suggest the optimal sensitivity, but you can set your preferred level with a simple slider. High sensitivity will generate more hits but with higher uncertainty, and vice versa. You can always change your sensitivity level later.

Classification sensitivity: ?

Predict **AI Optimum** amount of Tags

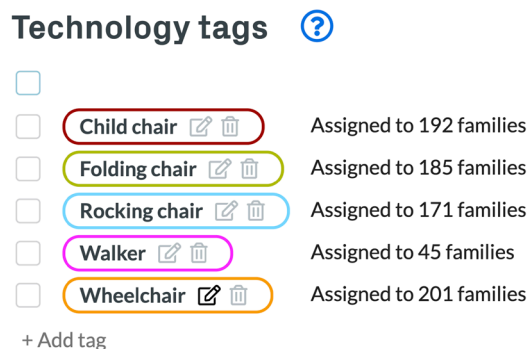| Precision ?	F1 score ?	Recall ?
91%	93%	94%

3. Apply

You can now analyze the global patent landscape using your internal terminology. Apply the classifier in searches, monitoring, bench marking or competitive intelligence projects, or integrate it in your workflows – only your creativity sets the limits.

CHAIR STRUCTURE
■ ● **EP0662796A1** ⧉ | SE | WO | AU | FI ⌄
(Wheelchair ✔) (Folding chair ✔ ✖ 🗑)

4. Iterate

Does your classifier need adjustment? It can easily be re-trained with new data, both from uploads or search results. Re-train, re-calibrate, define new categories and identify needs for new classifiers.

Technology tags ?

☐

☐ (Child chair ✎ 🗑)	Assigned to 192 families
☐ (Folding chair ✎ 🗑)	Assigned to 185 families
☐ (Rocking chair ✎ 🗑)	Assigned to 171 families
☐ (Walker ✎ 🗑)	Assigned to 45 families
☐ (Wheelchair ✎ 🗑)	Assigned to 201 families

+ Add tag

IPRally

IPRally lets you search and categorize the patent landscape faster, easier and more accurately using knowledge graph AI.

If you would like to try it and see how it works for you, just contact us at iprally.com for a short demo and we'll sign you up for a free trial.