



Graph AI patent search

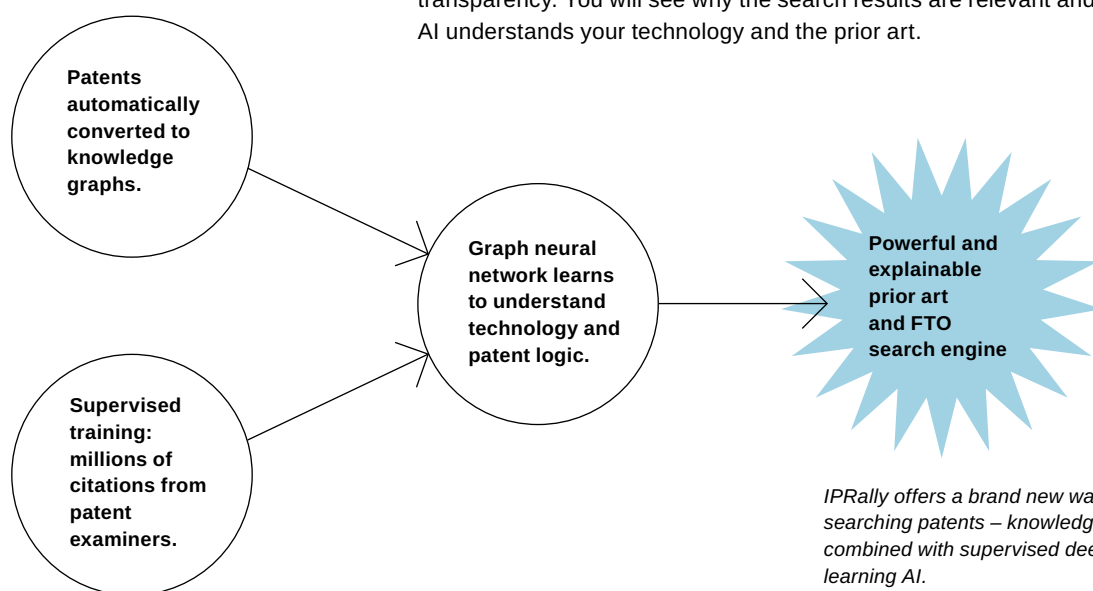
Find and analyze patent information
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IPRally is an easy-to-use web application for faster patent searches with proven accuracy.

Powered by a groundbreaking AI knowledge graph technology, it provides you an unmatched semantic and technical understanding of the global patent literature.

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When you perform a patent search in IPRally, the AI will instantly break down the invention for you into its essential elements and structure them in a so called knowledge graph, which can be described as a logical representation of the technology. The graph is then compared to tens of millions of knowledge graphs generated from the global patent literature, to provide you with the most relevant prior art. Search with publication number, free text or build your own knowledge graph. IPRally is all deep learning based – it is the technology that matters, not the individual keywords you chose. The result is that you can focus on the technology and let the AI do the tedious feature mapping with its built-in semantic and technical understanding.

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Unlike the typical AI-driven patent search tool, IPRally has a high level of transparency. You will see why the search results are relevant and how the AI understands your technology and the prior art.

Save time and effort – let the AI do the search.



Invalidity/opposition

Just paste the publication number into IPRally's search interface and press search to find the novelty-destroying prior art the examiner didn't. Yes, it's that simple.



FTO

Make a free text search or build a query graph from scratch using the simple graph editor. It guides you towards logical thinking and crystallization of the core of the invention. IPRally lets you filter on geography, claims only and legal status.



Patentability

Build a query graph from scratch with the graph editor. No boolean logic is needed. Alternatively, if you have an invention disclosure or claim draft at hand, you can just copy-paste it into our full-text box and let the algorithm build the graph for you.



Monitoring

Monitor activity in your most important technology areas, or around your key patents, without being flooded by irrelevant data. IPRally will only send you results that have been qualified using criteria you set.

Instant access to
the hidden intelligence
in global patent data

Technology comes in all shapes and sizes, but practically all inventions have a logic that can be structured in a similar way. The knowledge graph is the perfect way of expressing this structure. Combined with a neural network trained with global patent data, the search power is unmatched. This is how IPRally works:

1. The AI interprets the technology and converts it to a knowledge graph.

A snowthrower comprising a motor, an auger driven by the motor to rotate, a handle device for a user to operate, an auger housing for containing the auger and a frame for connecting the handle device and the auger housing, wherein the auger housing is made of at least two different materials.

2. The AI compares the graph to tens of millions of pre-generated prior art graphs.



3. The search results are scored and sorted by technical similarity.

| | | | | | |
|---|---|------------------|------------|----|--------|
| 1. | SNOW THROWER WITH JOYSTICK US201900833481 | Snow Joe LLC | 2019-06-11 | 52 | More > |
| 2. | SNOW THROWER INCLUDING REVERSE SHUT-OFF MECHANISM US201901083341 (B2) | Snow Joe LLC | 2019-04-21 | 40 | More > |
| 3. | Mechanical snow thrower US848995B1 | SHERMAN JEROME | 2018-10-18 | 62 | Less < |
| <p>The mechanical snow thrower includes a housing connected to a handle, along with an inlet and outlet. An auger is used to move the snow from the inlet to a fan, which propels the snow through the outlet. A pair of wheels drives the auger, while at least one pair of wheels drives the fan. A gear set connects the wheels to the auger and/or the fan. A clutch may be used to engage or disengage the wheels from the auger and/or clutch.</p> <p>Application date: 2015-03-10 Priority date: 2015-04-24 (US20150198254A1) <- Inventor: SHERMAN, JEROME Classification: E21H 5/09 External links: Google Patents, Espacenet, PatBase Actions: Download PDF, View graph</p> | | | | | |
| 4. | Operational control mechanism US8133064A | HOLL, TRYSLIE A. | 1998-04-07 | #1 | More > |

4. The AI automatically highlights the most relevant passages of the document.

Brief summary

[0002] In one embodiment, the invention provides a chute rotation mechanism for a snow thrower. The snow thrower includes a frame and a chute rotatably mounted to the frame. The chute rotation mechanism includes a ring gear configured to be mounted to the chute, a drive gear engaging the ring gear, and a handle assembly configured to pivot relative to the frame. The chute rotation mechanism also includes a first cable extending between the drive gear and the handle assembly. The handle assembly is pivotable in a first direction to tension the first cable and rotate the drive gear, thereby rotating the ring gear in a corresponding first direction. The chute rotation mechanism further includes a second cable extending between the drive gear and the handle assembly. The handle assembly is pivotable in a second direction to tension the second cable and rotate the drive gear, thereby rotating the ring gear in a corresponding second direction.

[0003] In another embodiment, the invention provides a snow thrower including a frame having an auger housing, a plurality of wheels coupled to the frame, a prime mover supported by the frame, an auger positioned within the auger housing and coupled to the prime mover to be driven by the prime mover, a chute rotatably mounted to the frame to direct material away from the frame, and a chute rotation mechanism supported by the frame and operable to rotate the chute relative to the frame. The chute rotation mechanism includes a ring gear fixed to the chute, a drive gear engaging the ring gear, and a handle assembly pivotable relative to the frame. The chute rotation mechanism also includes a first cable extending between the drive gear and the handle assembly. The handle assembly is pivotable in a first direction to tension the first cable and rotate the drive gear, thereby rotating the ring gear and the chute in a corresponding first direction. The chute rotation mechanism further includes a second cable extending between the drive gear and the handle assembly. The handle assembly is pivotable in a second direction to tension the second cable and rotate the drive gear, thereby rotating the ring gear and the chute in a corresponding second direction.

[0004] Other aspects of the invention will become apparent by consideration of the detailed description and accompanying drawings.



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.