

# Patent Public Search - Basic Search overview



Quick Reference Guide 2024

In Patent Public Search's Basic Search, you can execute simple search queries.

## Quick Lookup

1. Enter a patent number or published patent application number in the Quick Lookup query box and select "Search."  
Patent numbers should be 7 digits with leading zeroes if needed. If there is a letter prefix for a design patent (D) or plant patent (PP) it will take the place of a digit in the 7-digit total. Utility patents numbered greater than 10 million will have 8 digits. (see **Figure 1**). Published patent applications numbers should be 11 digits with the first four digits the publication year.

A screenshot of the 'Quick lookup' search interface. It features a title 'Quick lookup' at the top. Below the title is the label 'Patent or Publication number' and an example: 'For example: 0123456 or 20210123456'. A search input field contains the number '9204578'. To the right of the input field is a blue 'Search' button.

Figure 1. Quick lookup option

## Basic Search: Everything

Basic Search provides two search query boxes that may be used to enter keywords. The "Everything" default will search all fields in patents and published patent applications in all three databases (USPAT, USOCR, US-PGPUB) for the word(s) in the search query boxes. In **Figure 2**, for example "automobile" is entered in the first search query box and "sensors" is entered in the second query box.

1. Enter a search word in each search query box. If only one query box is used, then only that word will be searched.
2. Select the set operator from the drop-down Operator menu. Select "AND" if a resulting document must have both term 1 and term 2. Select "OR" if a resulting document must have either term 1 or term 2. Select "NOT" if a resulting document must have term 1 but not term 2.
3. Select "Search" to produce a results list of patents and published patent applications.

A screenshot of the 'Basic search' interface. It has a title 'Basic search'. There are two search query boxes, each with a dropdown menu set to 'Everything'. The first query box contains the word 'automobile'. Between the two query boxes is an 'Operator' dropdown menu set to 'AND'. The second query box contains the word 'sensors'. At the bottom right, there are two buttons: a grey 'Reset' button and a blue 'Search' button.

Figure 2. Basic Search option  
Everything [All fields]

## Basic Search: Other possible fields

Search fields (searchable indexes) can focus a word or number search to designated areas of a publication record to create a results list of only documents with those words or numbers in a particular field or section of a document; see **Figure 3**. Both drop-down menus for Field 1 and Field 2 provide the user a choice of fields:

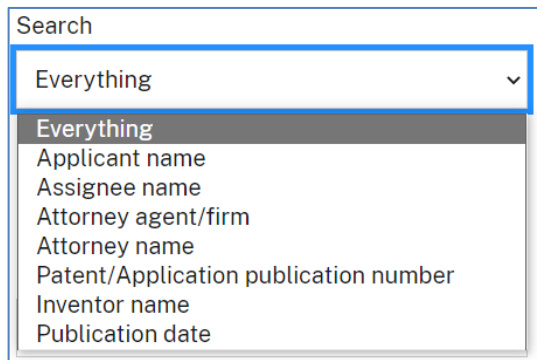


Figure 3. Field selection options

## Search Results sample

### Search results


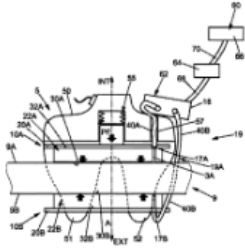
Results for query "car AND wagon"

Showing 1 to 50 of 7990 records

Result #	Document/Patent number	Display	Title	Inventor name	Publication date	Pages
1	US-11940550-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Method, apparatus, and system for wireless monitoring to ensure security	Mai; Chao-Lun et al.	2024-03-26	58
2	US-11940025-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Friction assembly for a disc brake system able to filter a gaseous phase resulting from the friction of a lining	Adamczak; Loic et al.	2024-03-26	9
3	US-11940112-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Vehicle retrofit headlamp having reflector optic portions facing each other	Seichter; Christian et al.	2024-03-26	28
4	US-11940098-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Polymeric liner based gas cylinder with reduced permeability	Volkmer; Michael Gregory et al.	2024-03-26	30
5	US-11938841-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Supplemental energy generation and storage for trains	Then-Gautier; Johnny et al.	2024-03-26	25
6	US-11940279-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Systems and methods for positioning	Qu; Xiaozhi et al.	2024-03-26	33
7	US-20240094351-A1	<a href="#">Preview</a> <a href="#">PDF</a>	LOW-PROFILE LIDAR SYSTEM WITH SINGLE POLYGON AND MULTIPLE OSCILLATING MIRROR SCANNERS	Li; Yufeng et al.	2024-03-21	38
8	US-11932249-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Methods and devices for triggering vehicular actions based on passenger actions	Chao; Min-An et al.	2024-03-19	35
9	US-11934557-B1	<a href="#">Preview</a> <a href="#">PDF</a>	Data privacy and security in vehicles	Amico; Andrea	2024-03-19	30
10	US-11932197-B2	<a href="#">Preview</a> <a href="#">PDF</a>	Digital key relay attack prevention systems and methods	Barker; Russell K. et al.	2024-03-19	16

Figure 4. Search results

The Search results provide the option of viewing only the front page of a document ("Preview") or entire document as a PDF file ("PDF"). Lists may be printed using your browser's web page print function.

Display	Title	Inventor name
<a href="#">Preview</a> <a href="#">PDF</a>	Method, apparatus, and system for wireless monitoring to ensure security	Mai; Chao-Lun et al.
<a href="#">Preview</a>	 <p>US011940025B2</p> <p>(12) <b>United States Patent</b> Adamczak et al.</p> <p>(10) <b>Patent No.:</b> US 11,940,025 B2 (45) <b>Date of Patent:</b> Mar. 26, 2024</p> <p>(54) <b>FRICION ASSEMBLY FOR A DISC BRAKE SYSTEM ABLE TO FILTER A GASEOUS PHASE RESULTING FROM THE FRICTION OF A LINING</b></p> <p>(58) <b>Field of Classification Search</b> CPC .... F16D 65/0031; F16D 65/002; F16D 55/22; F16D 2069/004; B01D 53/002; (Continued)</p> <p>(71) Applicant: <b>TALLANO TECHNOLOGIE</b>, Boulogne Billancourt (FR)</p> <p>(72) Inventors: <b>Loic Adamczak</b>, Montalieu Vercieu (FR); <b>Christophe Rocca-Serra</b>, Paris (FR)</p> <p>(73) Assignee: <b>TALLANO TECHNOLOGIE</b>, Boulogne Billancourt (FR)</p> <p>(* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 708 days.</p> <p>(21) Appl. No.: <b>17/053,464</b></p> <p>(22) PCT Filed: <b>Apr. 24, 2019</b></p> <p>(86) PCT No.: <b>PCT/FR2019/050968</b> § 371 (c)(1), (2) Date: <b>Nov. 6, 2020</b></p> <p>(87) PCT Pub. No.: <b>WO2019/215402</b> PCT Pub. Date: <b>Nov. 14, 2019</b></p> <p>(65) <b>Prior Publication Data</b> US 2021.0239168 A1 Aug. 5, 2021</p> <p>(30) <b>Foreign Application Priority Data</b> May 9, 2018 (FR) ..... 18 53966</p> <p>(51) <b>Int. Cl.</b> <b>B60T 8/00</b> (2006.01) <b>B01D 53/00</b> (2006.01) (Continued)</p> <p>(52) <b>U.S. Cl.</b> CPC ..... <b>F16D 65/0031</b> (2013.01); <b>B01D 53/002</b> (2013.01); <b>B01D 53/0415</b> (2013.01); (Continued)</p> <p>(56) <b>References Cited</b> U.S. PATENT DOCUMENTS 5,162,053 A 11/1992 Kowalski, Jr. 6,749,655 B2 6/2004 Dautenhahn (Continued)</p> <p>FOREIGN PATENT DOCUMENTS CN 1647601 A 7/2005 CN 205402964 U 7/2016 (Continued)</p> <p>OTHER PUBLICATIONS Office Action issued in Chinese Patent Application No. 201980041555.1 dated Nov. 3, 2021. (Continued)</p> <p><i>Primary Examiner</i> — Christopher P Schwartz (74) <i>Attorney, Agent, or Firm</i> — NIXON &amp; VANDERHUYE</p> <p>(57) <b>ABSTRACT</b> A friction assembly for a brake system able to collect vapors resulting from the friction of a lining. The friction assembly for a disc brake system includes: —a lining made of friction material, including a friction face, an attachment face opposite the friction face, and a collection groove that is open on the friction face; —a sole plate, supporting the lining, including a hole; —a negative pressure source configured to create negative pressure in the collection groove and the hole. The friction assembly includes a gas filtration device, in pneumatic communication with the collection groove and the hole, able to collect gases resulting from friction of the lining and coming from the collection groove.</p> <p><b>19 Claims, 2 Drawing Sheets</b></p> 	ic et al. stian et al. hael Gregory et al. Johnny et al. al. al. et al. a ll K. et al. adrian S; Bernardo Luis et al.
<a href="#">Preview</a> <a href="#">PDF</a>	HYDROGEN SULFIDE MITIGATION METHODS	Allison, III; Robert D.



(12) **United States Patent**  
Adamczak et al.

(10) **Patent No.:** US 11,940,025 B2  
(45) **Date of Patent:** Mar. 26, 2024

(54) **FRICITION ASSEMBLY FOR A DISC BRAKE SYSTEM ABLE TO FILTER A GASEOUS PHASE RESULTING FROM THE FRICTION OF A LINING**

(58) **Field of Classification Search**  
CPC .... F16D 65/0031; F16D 65/092; F16D 55/22; F16D 2069/004; B01D 53/002;  
(Continued)

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(72) Inventors: **Loic Adameczak**, Montalieu Vercieu (FR); **Christophe Rocca-Serra**, Paris (FR)

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(73) Assignee: **TALLANO TECHNOLOGIE**,  
Boulogne Billancourt (FR)

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 708 days.

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CN 205402964 U 7/2016  
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(21) Appl. No.: **17/053,464**

OTHER PUBLICATIONS

(22) PCT Filed: **Apr. 24, 2019**

Office Action issued in Chinese Patent Application No. 201980041555.1 dated Nov. 3, 2021.

(86) PCT No.: **PCT/FR2019/050968**

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