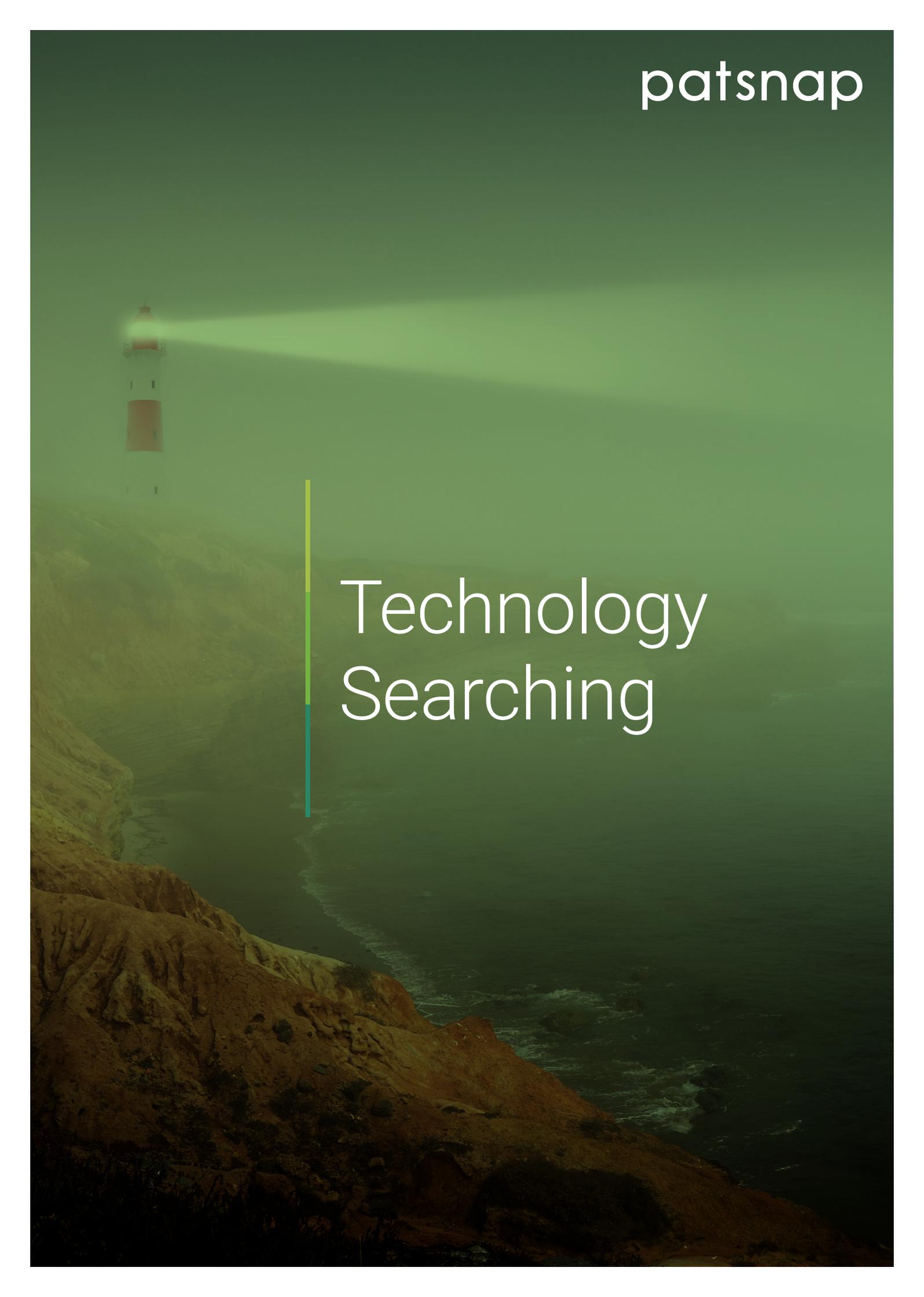


patsnap

A lighthouse on a cliffside with a beam of light shining across the sky. The lighthouse is white with a red band. The beam of light is a bright green color. The background is a dark green gradient. The foreground shows a rocky cliffside and the ocean.

Technology
Searching

You're interested in a particular technology field but have no idea where to begin. You've got a patent search tool called PatSnap available to you but have no idea what you can do with it to achieve your goals. In this document, I am going to go through how you would use PatSnap to achieve these goals.

Technology Searching

The obvious place to start is a simple keyword search but even for something like this, there are certain ways of doing it which will help you get results closer to what you are interested in. Let's say you are interested in the automotive industry and you go to the search page and simply type "car" into the "All Fields" search box.

The screenshot shows a search interface with the following elements:

- Navigation tabs: **Advanced**, Bulk, Semantic, Expand, Classification, Legal, Image, Chemical, Literature.
- Database selection: **All Databases** (with a globe icon).
- Save template: **Save template** (with a dropdown arrow) and a settings gear icon.
- Search criteria list:
 - Field: **All Fields** (dropdown), Value: **car** (input field).
 - Operator: **AND** (dropdown), Field: **Title/Abstract** (dropdown), Example: **car AND seat** (input field).
 - Operator: **AND** (dropdown), Field: **Assignee** (dropdown), Example: **Apple OR Samsung** (input field).
 - Operator: **AND** (dropdown), Field: **IPC** (dropdown), Example: **A61K OR C07H7/06** (input field).
- Field addition: **+ Add Field** button.
- Search input: A large text area containing **car**.
- Search actions: **Search** (green button), **Clear** (grey button), and **Command Search** (blue link with pencil icon).
- Help: **Search Helper** (with a right-pointing arrow).

Once you reach the search results page after you have performed this search, you can see lots of results that contain the word "car".

#	Publication Number	Title	Assignee Name	Inventor Name	Application Date	Publication Date
1	WO2018053885A1	PREPARATION METHOD FOR AND USE OF ENHANCED SLIT2 CAR-T CELL AND CAR-NK CELL	LI, HUASHUN	LI, HUASHUN WANG, BAOLEI REN, BAOYONG *1	11 Oct 2016	29 Mar 2018
2	WO2017088269A1	CHIMERIC ANTIGEN RECEPTOR HCD87-CAR LENTIVIRUS AND PLASMID CARRYING HCD87-CAR GENE STRUCTURE AND USE THEREOF	WANG, RENZHI REN, YUAN	WANG, RENZHI REN, YUAN	30 Dec 2015	01 Jun 2017
3	WO2018076391A1	PD-1 CAR NK-92 CELL AND PREPARATION METHOD THEREFOR AND USE THEREOF	LI, HUASHUN	LI, HUASHUN WANG, BAOLEI HAN, KUNKUN *1	04 Nov 2016	03 May 2018
4	WO2018028157A1	VC CAR MOLECULE AND APPLICATION THEREOF TO HIV-1 INFECTION CELL CLEARING	SUN YAT-SEN UNIVERSITY	ZHANG, HUI LIU, BINGFENG ZOU, FAN	23 Jan 2017	15 Feb 2018
5	WO2018068257A1	UNIVERSAL CAR-T CELL AND PREPARATION METHOD AND APPLICATION THEREFOR	BEIJING IMMUNOCHINA MEDICAL SCIENCE & TECHNOLOGY CO., LTD.	HE, TING LU, XIN-AN	13 Oct 2016	19 Apr 2018
6	WO2016056228A1	CAR EXPRESSION VECTOR AND CAR-EXPRESSING T CELLS	YAMAGUCHI UNIVERSITY	TAMADA, KOJI SAKODA, YUKIMI ADACHI, KEISHI	06 Oct 2015	14 Apr 2016
7	WO2017133222A1	CAPTURE PROBE FOR DETECTING CAR-T CELL, METHOD FOR DETECTING CELL CONTENT, AND APPLICATION	BEIJING IMMUNOCHINA MEDICAL SCIENCE & TECHNOLOGY CO., LTD.	LU, XIN'AN HE, TING MA, LIE	24 Aug 2016	10 Aug 2017
8	WO2017219937A1	CAR-T CELL FOR EFFICIENTLY AND STABLY EXPRESSING INHIBITING ANTIBODY AND APPLICATION THEREOF	SHANGHAI CELL THERAPY RESEARCH INSTITUTE SHANGHAI ENGINEERING RESEARCH CENTER FOR CELL THERAPY GROUP CO., LTD	QIAN, QIJUN JIN, HUAJUN XU, JIEYING *5	19 Jun 2017	28 Dec 2017
9	WO2017177575A1	PD-1 CAR-T CELL, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF	LI, HUASHUN	LI, HUASHUN	19 Sep 2016	19 Oct 2017
10	WO2018068354A1	SIRNA OF HUMAN INTERLEUKIN 6, RECOMBINANT EXPRESSION CAR-T VECTOR, AND CONSTRUCTION METHOD AND USE THEREOF	SHANGHAI UNICAR-THERAPY BIOMEDICINE TECHNOLOGY CO., LTD	QI, WEI KANG, LIQING YU, LEI *1	10 Nov 2016	19 Apr 2018
11	EP2769594B1	CAR-2-X COMMUNICATION SYSTEM, PARTICIPANT IN SUCH A SYSTEM AND METHOD FOR RECEIVING OF RADIO SIGNALS IN SUCH A SYSTEM	AUDI AG	KRATZSCH, CLAUDIA BAIRLEIN, WILHELM PANDEY, MOHINDER	11 Aug 2012	18 May 2016
12	EP2769594A1	CAR-TO-X COMMUNICATION SYSTEM, PARTICIPANT IN SUCH A SYSTEM, AND METHOD FOR RECEIVING RADIO SIGNALS IN SUCH A SYSTEM	AUDI AG	KRATZSCH, CLAUDIA BAIRLEIN, WILHELM PANDEY, MOHINDER	11 Aug 2012	27 Aug 2014
13	CN105368859A	Chimeric antigen receptor hCD87-CAR lentivirus carrying hCD87-CAR gene structure, plasmid and application of chimeric antigen receptor hCD87-CAR	王任直 任远 冯铭	王任直 任远 冯铭	25 Nov 2015	02 Mar 2016
14	JP6161098B2	CAR expression vector and the CAR expressing t cells	国立大学法人山口大学	玉田 耕治 佐吉田 幸美 安達 志志	06 Oct 2015	12 Jul 2017

The issue with this is that patent owners often use synonyms within their patent applications since this makes it harder for their competitors to find their patents. Because of this it is worth also using the various synonyms for the keywords you have inputted into your search. You can find these in PatSnap by using our [Keyword Helper](#).

Keyword Helper

car

vehicle

automobile

passenger car

driving vehicle

running vehicle

cabin

motorcar

motor car

elevator

parking

passenger

garage

elevator car

cars

cab

car stop

car body

truck

elevator cage

motorcycle

locomotive

railway vehicle

taxi

vehicles

■ Selected
 ■ Excluded
 ■ Ignore

Click on the labels to switch colours. Click to mark relevant labels with green and double click to mark labels you wish to exclude with red. You can choose to further refine the selected labels before submitting a search with your final choice of green keyword labels.

After going through this with our example, you decide that the words/phrases that could be considered as synonyms for "car" are "automobile", "driving vehicle", "motorcar" and "motor car" building a search query of "car" OR "automobile" OR "driving vehicle" OR "motorcar" OR "motor car" and giving more results in total.

#	Publication Number	Title	Assignee Name	Inventor Name	Application Date	Publication Date
1	WO2018053885A1	PREPARATION METHOD FOR AND USE OF ENHANCED SLIT2 CAR-T CELL AND CAR-NK CELL	LI, HUASHUN	LI, HUASHUN WANG, BAOLEI REN, BAOYONG *1	11 Oct 2016	29 Mar 2018
2	WO2017088269A1	CHIMERIC ANTIGEN RECEPTOR HCD87-CAR LENTIVIRUS AND PLASMID CARRYING HCD87-CAR GENE STRUCTURE AND USE THEREOF	WANG, RENZHI REN, YUAN	WANG, RENZHI REN, YUAN	30 Dec 2015	01 Jun 2017
3	WO2018076391A1	PD-1 CAR-NK-92 CELL AND PREPARATION METHOD THEREFOR AND USE THEREOF	LI, HUASHUN	LI, HUASHUN WANG, BAOLEI HAN, KUNKUN *1	04 Nov 2016	03 May 2018
4	WO2018028157A1	VC-CAR MOLECULE AND APPLICATION THEREOF TO HIV-1 INFECTION CELL CLEARING	SUN YAT-SEN UNIVERSITY	ZHANG, HUI LIU, BINGFENG ZOU, FAN	23 Jan 2017	15 Feb 2018
5	WO2018068257A1	UNIVERSAL CAR-T CELL AND PREPARATION METHOD AND APPLICATION THEREFOR	BEIJING IMMUNOCHINA MEDICAL SCIENCE & TECHNOLOGY CO., LTD.	HE, TING LU, XIN-AN	13 Oct 2016	19 Apr 2018
6	WO2016056228A1	CAR EXPRESSION VECTOR AND CAR-EXPRESSING T CELLS	YAMAGUCHI UNIVERSITY	TAMADA, KOJI SAKODA, YUKIMI ADACHI, KEISHI	06 Oct 2015	14 Apr 2016
7	WO2017133222A1	CAPTURE PROBE FOR DETECTING CAR-T CELL, METHOD FOR DETECTING CELL CONTENT, AND APPLICATION	BEIJING IMMUNOCHINA MEDICAL SCIENCE & TECHNOLOGY CO., LTD.	LU, XIN'AN HE, TING MA, LIE	24 Aug 2016	10 Aug 2017
8	WO2017219937A1	CAR-T CELL FOR EFFICIENTLY AND STABLY EXPRESSING INHIBITING ANTIBODY AND APPLICATION THEREOF	SHANGHAI CELL THERAPY RESEARCH INSTITUTE SHANGHAI ENGINEERING RESEARCH CENTER FOR CELL THERAPY GROUP CO., LTD	QIAN, QIJUN JIN, HUAJUN XU, JIEYING *5	19 Jun 2017	28 Dec 2017
9	EP2769594B1	CAR-2-X COMMUNICATION SYSTEM, PARTICIPANT IN SUCH A SYSTEM AND METHOD FOR RECEIVING OF RADIO SIGNALS IN SUCH A SYSTEM	AUDI AG	KRATZSCH, CLAUDIA BAIRLEIN, WILHELM PANDEY, MOHINDER	11 Aug 2012	18 May 2016
10	EP2769594A1	CAR-TO-X COMMUNICATION SYSTEM, PARTICIPANT IN SUCH A SYSTEM, AND METHOD FOR RECEIVING RADIO SIGNALS IN SUCH A SYSTEM	AUDI AG	KRATZSCH, CLAUDIA BAIRLEIN, WILHELM PANDEY, MOHINDER	11 Aug 2012	27 Aug 2014
11	WO2017177575A1	PD-1 CAR-T CELL, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF	LI, HUASHUN	LI, HUASHUN	19 Sep 2016	19 Oct 2017
12	WO2018068354A1	SIRNA OF HUMAN INTERLEUKIN 6, RECOMBINANT EXPRESSION CAR-T VECTOR, AND CONSTRUCTION METHOD AND USE THEREOF	SHANGHAI UNICAR-THERAPY BIOMEDICINE TECHNOLOGY CO., LTD	QI, WEI KANG, LIQING YU, LEI *1	10 Nov 2016	19 Apr 2018
13	CN10536859A	Chimeric antigen receptor hCD87-CAR lentivirus carrying hCD87-CAR gene structure, plasmid and application of chimeric antigen receptor hCD87-CAR	王任直 任远 冯铭	王任直 任远 冯铭	25 Nov 2015	02 Mar 2016
14	JP6161098B2	Car expression vector and the Car expressing t cells	国立大学法人山口大学	玉田 耕治 佐吉田 幸美 安達 志志	06 Oct 2015	12 Jul 2017

Once you have got this far you may think that many of the results aren't relevant. The reason for this is because when inputting a search query in the "All" field this will search within the entirety of each of the patent documents, not necessarily the important parts. This can be problematic since, for example, the title, abstract and claims are more important than the description.

- Titles give a very brief meaning to the document.
- Abstracts give a paragraph long description of the overall purpose and intent of the invention described.
- The claims describe exactly what the patent is protecting, and defines the limit of what the patent owner has a right to exclude others from doing and usually as the most important part of the patent.
- The description is a full explanation of the invention but as it does not define what is protected and often mentions words not specific to the technology it is often considered as not as important and may be worth leaving out of searches.

To search in the title, abstract and claims you can use the search command TAC. So for your example, the search query would be TAC:(*"car"* OR *"automobile"* OR *"driving vehicle"* OR *"motorcar"* OR *"motor car"*) and you get the following results.

#	Publication Number	Title	Assignee Name	Inventor Name	Application Date	Publication Date
1	WO2018053885A1	PREPARATION METHOD FOR AND USE OF ENHANCED SLIT2 CAR-T CELL AND CAR-NK CELL	LI, HUASHUN	LI, HUASHUN WANG, BAOLEI REN, BAORYONG +1	11 Oct 2016	29 Mar 2018
2	WO2017088269A1	CHIMERIC ANTIGEN RECEPTOR HCD87-CAR LENTIVIRUS AND PLASMID CARRYING HCD87-CAR GENE STRUCTURE AND USE THEREOF	WANG, RENZHI REN, YUAN	WANG, RENZHI REN, YUAN	30 Dec 2015	01 Jun 2017
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5	WO2018028157A1	VC-CAR MOLECULE AND APPLICATION THEREOF TO HIV-1 INFECTION CELL CLEARING	SUN YAT-SEN UNIVERSITY	ZHANG, HUI LIU, BINGFENG ZOU, FAN	23 Jan 2017	15 Feb 2018
6	WO2018068257A1	UNIVERSAL CAR-T CELL AND PREPARATION METHOD AND APPLICATION THEREFOR	BEIJING IMMUNOCHINA MEDICAL SCIENCE & TECHNOLOGY CO., LTD.	HE, TING LU, XIN-AN	13 Oct 2016	19 Apr 2018
7	WO2016056228A1	CAR EXPRESSION VECTOR AND CAR-EXPRESSING T CELLS	YAMAGUCHI UNIVERSITY	TAMADA, KOJI SAKODA, YUKIMI ADACHI, KEISHI	06 Oct 2015	14 Apr 2016
8	WO2017133222A1	CAPTURE PROBE FOR DETECTING CAR-T CELL, METHOD FOR DETECTING CELL CONTENT, AND APPLICATION	BEIJING IMMUNOCHINA MEDICAL SCIENCE & TECHNOLOGY CO., LTD.	LU, XIN'AN HE, TING MA, LIE	24 Aug 2016	10 Aug 2017
9	WO2017219937A1	CAR-T CELL FOR EFFICIENTLY AND STABLY EXPRESSING INHIBITING ANTIBODY AND APPLICATION THEREOF	SHANGHAI CELL THERAPY RESEARCH INSTITUTE SHANGHAI ENGINEERING RESEARCH CENTER FOR CELL THERAPY GROUP CO., LTD	QIAN, QIJUN JIN, HUAJUN XU, JIEYING +5	19 Jun 2017	28 Dec 2017
10	EP0628054B1	CAR RECEPTORS AND RELATED MOLECULES AND METHODS	THE GENERAL HOSPITAL CORPORATION	MOORE, DAVID, D. BAES, MYRIAM, I.	22 Feb 1993	14 Oct 1998
11	EP2769594A1	CAR-TO-X COMMUNICATION SYSTEM, PARTICIPANT IN SUCH A SYSTEM, AND METHOD FOR RECEIVING RADIO SIGNALS IN SUCH A SYSTEM	AUDI AG	KRATZSCH, CLAUDIA BAIRLEIN, WILHELM PANDEY, MOHINDER	11 Aug 2012	27 Aug 2014
12	WO2017177575A1	PD-1 CAR-T CELL, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF	LI, HUASHUN	LI, HUASHUN	19 Sep 2016	19 Oct 2017
13	WO2018068354A1	SIRNA OF HUMAN INTERLEUKIN 6, RECOMBINANT EXPRESSION CAR-T VECTOR, AND CONSTRUCTION METHOD AND USE THEREOF	SHANGHAI UNICAR-THERAPY BIOMEDICINE TECHNOLOGY CO., LTD	QI, WEI KANG, LIQING YU, LEI +1	10 Nov 2016	19 Apr 2018
14	CN105368859A	Chimeric antigen receptor hCD87-CAR lentivirus carrying hCD87-CAR gene structure, plasmid and application of chimeric antigen receptor hCD87-CAR	王任直 任远 冯铭	王任直 任远 冯铭	25 Nov 2015	02 Mar 2016

Even after you have done this, you may still feel that your results are still not relevant and it may be helpful to then be a good move to use some classification codes in your search. The most commonly used of these is the IPC as it has been used for the longest time and is used globally.

The way you would use this is to go to the IPC filters on the left-hand side of the screen and then select the relevant IPC codes from here.

IPC

IPC Sub Group ▼

- B60H1/00** Heating, cooling or ventilating devices (heating, co ... 21388
- B60R16/02** . electric [2006.01] 20132
- B60J5/04** . arranged at the vehicle sides [2006.01] 13141
- F21S8/10** . specially adapted for vehicles [2006.01] 12612
- B62D25/08** . Front or rear portions [2006.01] 12131
- B60L11/18** . using power supplied from primary cells, secondary c ... 11869
- B60R11/02** . for radio sets, television sets, telephones, or the like; ... 11684
- H02J7/00** Circuit arrangements for charging or depolarising batteri ... 9851
- B60H1/32** . Cooling devices (vehicles adapted to transport refrigerate ... 9492
- B66B11/02** . Cages (doors, gates, or other apparatus controlling acc ... 8991

More

As you are specifically interested in cars and how they work you decide only to search for patents that have the IPC codes that begin with B (if you look in our classification search for B this is given as "Performing Operations; Transporting") so you select B60H1/00, B60R16/02, B60J5/04, B62D25/08, B60R11/02, B60L11/18 and B60H1/32.

From here you get the following results which seem more relevant.

#	Publication Number	Title	Assignee Name	Inventor Name	Application Date	Publication Date
1	EP1000808B1	CAR AUDIO MOUNTING DEVICE	MITSUBISHI DENKI KABUSHIKI KAISHA	IKUNAMI, TAKAHIRO, MITSUBISHI DENKI K.K	27 May 1998	20 Apr 2011
2	KR1020140013448A	APPARATUS FOR CONTROLLING VELOCITY OF CAR FOR CHILDREN	이다희	이다희	24 Jul 2012	05 Feb 2014
3	EP1209069B1	car body front structure for automobile	DAIHATSU MOTOR CO., LTD.	TERAMAE, HIDEKI NOBUYA, NAKADE	16 Nov 2001	04 May 2005
4	TW201515366A	DIFFERENTIAL MOTOR-OPERATOR	HONGYU ENERGY SCIENCE CO., LTD. CHU, CHEN CHIANG	CHU, CHEN CHIANG	03 Oct 2013	16 Apr 2015
5	EP2639097A2	Control device, control method and electric motor car	KABUSHIKI KAISHA TOSHIBA	KOGA, TAKERU NOGI, MASAYUKI KAWAI, HIROTOSHI +1	26 Jul 2012	18 Sep 2013
6	EP2639097A3	Control device, control method and electric motor car	KABUSHIKI KAISHA TOSHIBA	KOGA, TAKERU NOGI, MASAYUKI KAWAI, HIROTOSHI +1	26 Jul 2012	12 Aug 2015
7	EP0274993B1	Front body module for a motor car, a front modular sub-assembly for a motor car using this front module, and a method for assembling a motor vehicle with the use of this modular sub-assembly	FIAT AUTO S.P.A.	CORNACCHIA, FELICE BRUNO, ANDREINO GHIONE, STEFANO	24 Nov 1987	06 Feb 1991
8	EP0274993A1	Front body module for a motor car, a front modular sub-assembly for a motor car using this front module, and a method for assembling a motor vehicle with the use of this modular sub-assembly	FIAT AUTO S.P.A.	CORNACCHIA, FELICE BRUNO, ANDREINO GHIONE, STEFANO	24 Nov 1987	20 Jul 1988
9	EP0108522A1	Instrument panel for a motor car	FORD MOTOR COMPANY LIMITED FORD-WERKE AKTIENGESELLSCHAFT FORD FRANCE SOCIETE ANONYME	PERCY, JOHN ALBERT GEORGE	12 Oct 1983	16 May 1984
10	DE102013003035A1	Method for obtaining movement profile of observed motor car e.g. bus, involves receiving vehicle identifier and associated observation data with meeting time point and position indicator for meeting location of observed motor car	AUDI AG	HAINZLMAIER ANDRE LAMPRECHT ANDREAS	22 Feb 2013	28 Aug 2014
11	EP1177968B1	Impact absorbing structure for car body front of automobile	DAIHATSU MOTOR CO., LTD.	KUBOTA, KAZUHIKO WATANABE, TAKETSUGU SUYAMA, TAKAO	24 Jul 2001	12 Oct 2005
12	JP2014073078A	CHARGE CONTROL UNIT AND INTERVAL ADJUSTMENT METHOD FOR ELECTROMAGNETIC INDUCTION TYPE CHARGING PROCESS	シーメンス アクチエンゲゼルシャフト	グンター フライターク カール-ヨーゼフ クーン	30 Sep 2013	21 Apr 2014
13	EP0108522B1	Instrument panel for a motor car	FORD MOTOR COMPANY LIMITED FORD-WERKE AKTIENGESELLSCHAFT FORD FRANCE SOCIETE ANONYME	PERCY, JOHN ALBERT GEORGE	12 Oct 1983	28 Jan 1987

These are the best ways we recommend for making your search results more relevant but you should not feel that this stop from trying to make them even more relevant. You can do this by using other classification codes (such as CPCs or UPCs, for example), searching within specific application/publication years, searching for specific assignees/inventors or even searching for patents from specific authorities. You can also save a template for your choices of search field by clicking the “*Save template*” button from the “*Advanced Search*” page which will mean that you will always see the same search fields when you access this page.

Advanced Bulk Semantic Expand Classification Legal Image Chemical Literature

All Databases  Save template 

All Fields

AND Title/Abstract/Claims

AND Assignee

AND IPC

+ Add Field

Click to enter Command Search 

Search Clear Search Helper >

To sum up, it may initially seem that searching for a specific technology is complicated but once you become well-versed in some of the best practices regarding this it can become whole easier. If you are still having difficulties with this, please feel free to let us know by emailing help@patsnap.com.

Innovators ask. PatSnap answers.

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