



**Enabling Innovation with Access to  
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**Derwent Patent Search**



Derwent Data

Feature spotlight

Access to  
full-text global coverage

## Derwent has expanded the full text coverage to 75 authorities

We have expanded our datasets to 75 jurisdictions, including emerging geographic regions, in 2020. This content expansion includes:



- **Original language full text**, including for China, Korea, and Russia
- **Interleaved view of patent sections** in Derwent Innovation, including claims and description
- **Full-text English translations**, including for EUIPO, Canada, Germany, France, and WIPO
- DWPI extended backfile coverage, including 9 authorities in CIS countries
- **Searchable full-text PDFs**, including 18 new authorities
- Multiple drawings, including in Chinese patents

Derwent Data

Feature spotlight

Access to  
full-text global coverage

## Global Patent Data

Argentina	Germany	PCT	
Australia	India	Russia	 Base
Brazil	Indonesia	Singapore	
Canada	Japan	Thailand	
China	Korea	UK	 Addition
EP	Malaysia	US	
France	Mexico	Vietnam	
<b>ARIPO (Africa)</b>	<b>Estonia</b>	<b>Lithuania</b>	<b>Serbia</b>
<b>Armenia</b>	<b>Eurasia</b>	<b>Luxembourg</b>	<b>Slovakia</b>
<b>Austria</b>	<b>Finland</b>	<b>Moldova</b>	<b>Slovenia</b>
<b>Belarus</b>	<b>Georgia</b>	<b>Monaco</b>	<b>South Africa</b>
<b>Belgium</b>	<b>Greece</b>	<b>Mongolia</b>	<b>Soviet Union</b>
<b>Bulgaria</b>	<b>Gulf Cooperation</b>	<b>Morocco</b>	<b>Spain</b>
<b>Colombia</b>	<b>Holland</b>	<b>New Zealand</b>	<b>Sweden</b>
<b>Costa Rica</b>	<b>Hong Kong</b>	<b>Norway</b>	<b>Switzerland</b>
<b>Croatia</b>	<b>Hungary</b>	<b>OAPI (Africa)</b>	<b>Taiwan</b>
<b>Cuba</b>	<b>Iceland</b>	<b>Philippines</b>	<b>Tunisia</b>
<b>Czech Republic</b>	<b>Ireland</b>	<b>Poland</b>	<b>Turkey</b>
<b>Czechoslovakia</b>	<b>Israel</b>	<b>Portugal</b>	<b>Ukraine</b>
<b>Denmark</b>	<b>Italy</b>	<b>Romania</b>	<b>Uruguay</b>
<b>East Germany</b>	<b>Latvia</b>		

# Derwent World Patents Index (DWPI)

Where others provide directional insights, we deliver actionable intelligence

**Innovation Landscape**  
Inform R&D spend with a comprehensive view

**Competitive Intelligence**  
Identify new entrants that present a threat

**Freedom to Operate**  
Undertake FTO searches with confidence, in less time

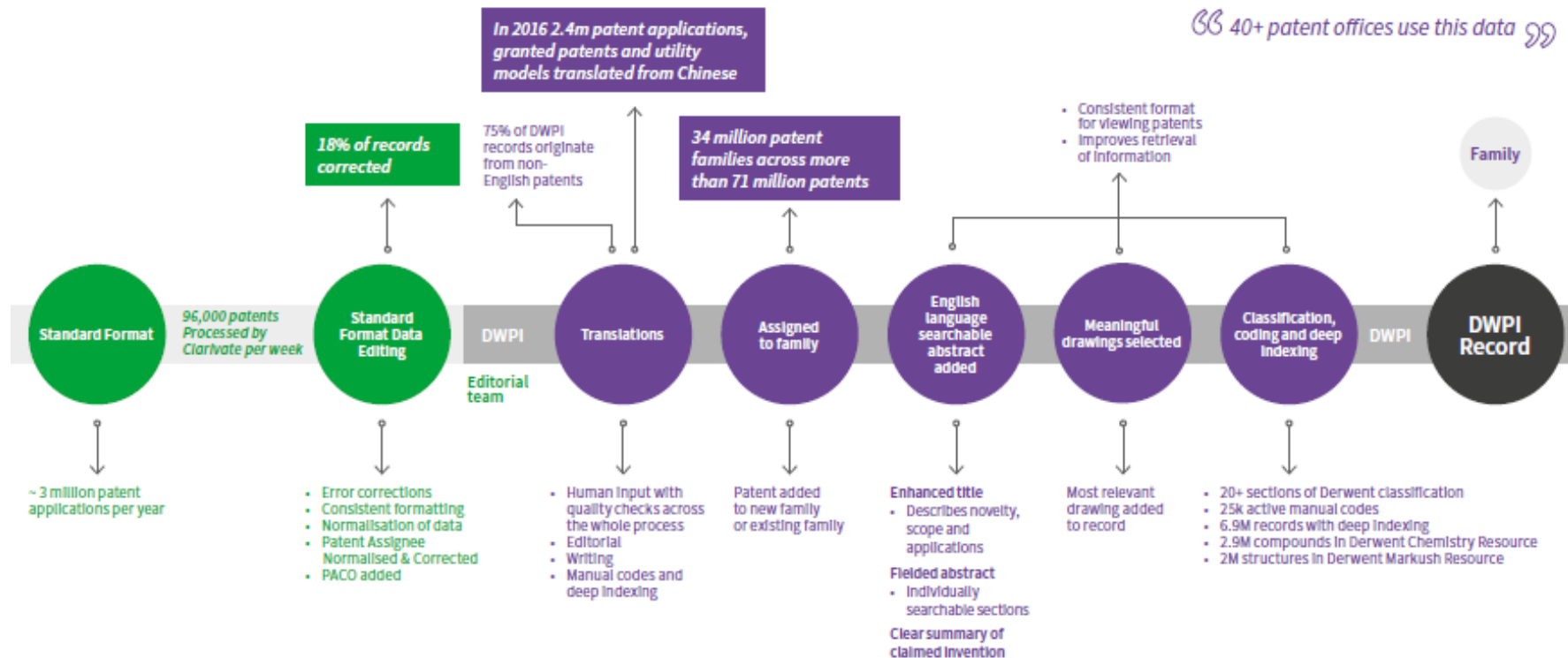
**Patent Prosecution**  
Reduce costs and improve patent grant rates

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Quickly find insights needed to defend against infringement suits

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Use citation analytics to identify opportunities for existing IP

DWPI is the world's most trusted source of patent information

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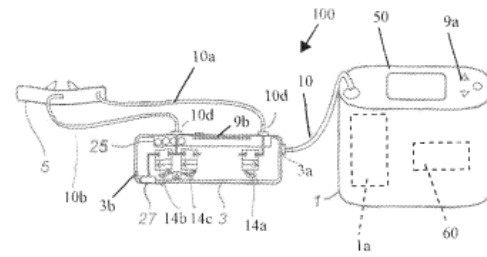
# Derwent World Patents Index (DWPI)

## What makes DWPI different?

- Enhanced titles
- Comprehensive abstracts
  - Novelty
  - Use
  - Advantage
- Error-corrected bibliographic information
- Editorially enhanced and accurate data
- Global coverage in English

# WO2021183903A1

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)	
(19) World Intellectual Property Organization International Bureau	
(43) International Publication Date 16 September 2021 (16.09.2021)	(10) International Publication Number <b>WO 2021/183903 A1</b>
(51) International Patent Classification: <i>A61M 16/10</i> (2006.01)	Robert M., 5504 Democracy Drive, Suite 200, Plano, TX 75024 (US).
(21) International Application Number: PCT/US2021/022133	(74) Agent: BUTLER, Dennis, J. et al.; Panitch Schwarze Belisario & Nadel LLP, Two Commerce Square, 2001 Market Street, Suite 2800, Philadelphia, PA 19103 (US).
(22) International Filing Date: 12 March 2021 (12.03.2021)	(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.
(25) Filing Language: English	(71) Applicants: SEPARATION DESIGN GROUP LLC [US/US], 931 Rolling Meadows Road, Waynesburg, PA 15370 (US). BELLUSCURA LLC [US/US], 5504 Democracy Drive, Suite 200, Plano, TX 75024 (US).
(26) Publication Language: English	(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,
(30) Priority Data: 62/989,159 13 March 2020 (13.03.2020) US	
(72) Inventors: GALBRAITH, Stephen Douglas, 931 Rolling Meadows Road, Waynesburg, PA 15370 (US). RAUKER,	
(84) Title: PORTABLE VENTILATOR	



## Original Patent Title

PORTABLE VENTILATOR

## DWPI title

Portable oxygen delivery system for treating chronic obstructive pulmonary disease, has power source attached to housing, and oxygen controller device electronically controlling pressure swing adsorption process

## Novelty

The oxygen delivery system (100) has a housing (50) of an oxygen concentrator (1). A compressor (60) is mounted inside the housing. A sieve module is located within the housing and in fluid connection with the compressor. The sieve module contains a zeolite for removing nitrogen from air through a pressure swing adsorption process for creating concentrated oxygen. A power source is attached to the housing. A controller device electronically controls the pressure swing adsorption process. A blowing apparatus (3) is in fluid communication with the oxygen concentrator. The blowing apparatus comprises a blower housing (3b). A blower motor is mounted inside the blower housing. A blower fan is connected to the blower motor. A second power source (27) is attached to the blower housing. A blower controller device (9b) electronically controls the blowing apparatus.

## Use

Portable oxygen delivery system for use by patient with breathing ailment i.e. chronic obstructive pulmonary disease (COPD), and lung disorder.

## Advantage

The system is scalable and configurable to decrease the weight and cost of the device to the patient, as their disease progresses, or oxygen needs change due to exercise or environment and more...

# Prior Art Searches on DWPI- Patent +Non-Patent- A sample

NO 2021/171083 A1

MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(54) Title: COMBINATION OF NICLOSAMIDE AND DOXORUBICIN

(57) Abstract: The present invention presents a therapeutic combination Niclosamide plus doxorubicin for breast cancer. Niclosamide, an FDA approved anti-helminthic drug is repurposed with doxorubicin which is a first line treatment for breast cancer. The therapeutic combination synergistically enhanced death of breast cancer cells irrespective of their clinic status (positive or negative). Since single agent therapy proves to be inefficient in treating cancer in clinical settings, such a combination therapy holds great potential to be an effective treatment.

Combination of 2 drugs- Niclosamide plus doxorubicin for Breast Cancer

Feature 2

Feature 1

Claim #1

A method of treating cancer comprising administering to an individual in need thereof an effective amount of econazole, sulconazole, isoconazole, miconazole, sertaconazole, tioconazole, fenticonazole, liarozole, cloconazole, itraconazole, **niclosamide**, deferasirox, eltrombopag, or a pharmaceutically acceptable salt, solvate, or combination thereof.

The method of claim 1, provided that the cancer comprises colon cancer, pancreatic cancer, cutaneous T-cell lymphoma, glioma, head and neck cancer, hepatocarcinoma, leukemia, glioblastoma, colorectal cancer, gallbladder, mastocytoma, acute myeloid leukemia, adrenocortical cancer, bladder urothelial cancer, brain tumor, brain lower grade glioma, breast cancer, breast invasive cancer, cervical cancer, cholangiocarcinoma, cutaneous melanoma, diffuse large B-cell lymphoma, endometrial cancer, glioblastoma multiform, H&N squamous cell carcinoma, hepatocellular carcinoma, kidney chromophobe carcinoma, lung cancer, lung adenocarcinoma, lung squamous cell carcinoma, mesothelioma, ovarian serous cystadenocarcinoma, pancreatic adenocarcinoma, prostate adenocarcinoma, prostate cancer, renal papillary cell cancer, sarcoma, uterine carcinosarcoma, melanoma,

Feature 1

1 Niclosamide Suppresses Cancer Cell Growth By Inducing Wnt Co-Receptor LRP6 Degradation and Inhibiting the Wnt/beta-Catenin Pathway  
Lu, WY; Lin, CH; (...); Li, YH  
Dec 16 2011 | PLOS ONE 6 (12)

13 The method of claim 1, provided that the effective amount is from about 5 mg to about 5,000 mg.

14 The method of claim 1, provided that the individual is administered an additional active agent comprising a **PD-1/PD-L pathway inhibitor**, IDO inhibitor, TDO inhibitor, CTLA-4 inhibitor, or a combination thereof; or provided that the individual is administered an additional active agent as part of an immunotherapy, CAR-T cell therapy, stem cell therapy, or a combination thereof.

1 Doxorubicin inhibits PD-L1 expression by enhancing UP-mediated decay of PD-L1 mRNA in cancer cells  
Kim, DJ; Jang, JH; (...); Cho, WJ  
Feb 5 2020 | BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS 522 (2) , pp.402-407

Non Patent Literature Search linked to Web of Science

SEARCH TERMS

niclosamide and doxorubicin x or  
+ Synonym

SEARCH FIELDS

Date · Priority  
YYYY-MM-DD - YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office · Language

Status · Type

Litigation

About 3,422 results  
Sort by · Relevance · Group by · None · Deduplicate by · Family · Results / page · 10

Methods and compositions for treating conditions associated with an abnormal ...

**WO EP US CN JP KR AU BR CA CL CO CR EA HK IL PE PH SG TN UA · US20210401784A1** · Gary D. Glick · First Wave Bio, Inc.  
Priority 2015-09-01 · Filed 2021-02-01 · Published 2021-12-30  
CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation of U.S. application Ser. No. 16/805,245, filed Feb. 28, 2020, which is a continuation of U.S. application Ser. No. 16/173,667, filed Oct. 29, 2018, which is a continuation of U.S. application Ser. No. 15/255,102, filed Sep.

Therapeutic agent for phosphodiesterase inhibition and its related disorders

**WO EP US CN JP KR AU BR CA MX PH RU ZA · US11147779B2** · Supreet K. Deshpande · Supreet K. Deshpande  
Priority 2017-03-21 · Filed 2018-03-14 · Granted 2021-10-19 · Published 2021-10-19  
The invention claimed is: 1. A method of treating phosphodiesterase related disorders in a mammal, comprising administering to a mammal in need of such treatment a therapeutically effective amount of a composition comprising an anti-parasitic compound having phosphodiesterase inhibitory activity;

Targeted therapeutics

**WO EP US CN JP KR AU CA HK IL · JP2020011970A** · U Chimmanamada Dinesh · マドリガル ファーマシューティカルズ, インコーポレーテッド  
Priority 2012-04-16 · Filed 2019-09-05 · Published 2020-01-23  
To provide pharmacological compounds that specifically direct therapeutic interest, for targeted chemotherapeutic treatment of conditions such as binding moiety-drug conjugates (SDC-TRAP), which include ...

Compounds and methods for treatment and prevention

Same search string- Google Patents provides random results- Derwent Innovation fetches precise result set with the right patent at top.

CTB=(niclosamide and doxorubicin);

✓	#	MARK	PDF	↑ PUBLICATION NUMBER	↑ IP CASES ...	↑ ASSIGNEE/APPLICANT	↑ PUBLICATION DATE	TITLE	↑ CURRENT ...	↑ RELEVANCY	↑ OPTIMIZED ASSIGNEE	↑ PRIORITY
✓	1			<b>WO2021171083A1</b>	-	INDIAN INSTITUTE OF TECH KANPUR	2021-09-02	COMBINATION OF NICLOSAMIDE AND DOXORUBICIN	A61K 31/04	71	INDIAN INSTITUTE OF TECHNOLOGY - KANPUR	IN
✓	2			<b>IN202011008213A</b>	-	INDIAN INSTITUTE OF TECHNOLOGY KANPUR	2020-03-06	COMBINATION OF NICLOSAMIDE AND DOXORUBICIN	A61K 45/06	67	INDIAN INSTITUTE OF TECHNOLOGY - KANPUR	IN
✓	3			<b>IN202011033005A</b>	-	INDIAN INSTITUTE OF TECHNOLOGY KANPUR	2020-09-04	NANOPARTICLE-BASED DRUG DELIVERY SYSTEM FOR NICLOSAMIDE AND A COMBINATION THEREOF		69	INDIAN INSTITUTE OF TECHNOLOGY - KANPUR	IN
✓	4			<b>IN373162B</b>	-	INDIAN INSTITUTE OF TECHNOLOGY KANPUR	2021-08-06	NANOPARTICLE-BASED DRUG DELIVERY SYSTEM FOR NICLOSAMIDE AND A COMBINATION THEREOF		39	INDIAN INSTITUTE OF TECHNOLOGY - KANPUR	IN
✓	5			<b>CN108815148A</b>	-	UNIV HARBIN MEDICAL	2018-11-16	Application of niclosamide and structural trim thereof in heart protection, pulmonary hypertension resistance and tumor resistance	A61K 31/167	38	UNIV HARBIN MEDICAL	CN
✓	6			<b>CN108815148B</b>	-	Harbin Medical University	2021-04-20	Application of niclosamide and structure modification thereof in heart protection, anti-pulmonary hypertension and anti-tumour	A61K 31/167	31	UNIV HARBIN MEDICAL	CN
✓	7			<b>WO2008123266A1</b>	-	REVERSE PROTEOMICS RES INST CO	2008-10-16	TARGET PROTEIN AND TARGET GENE FOR DRUG DISCOVERY, AND SCREENING METHOD	C12Q 1/68	17	REVERSE PROTEOMICS RES INST CO LTD	JP

Design complex queries using International Patent Classification (IPC) codes, publication year/priority year/priority date/application country etc.)

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CTB=((Enzym* NEAR7 hydroly*) AND ("waste paper" or cellulose or lignin or biomass or "plant matter") AND (bioethanol or biobutanol or bioalcohol or fuel or ethanol)) AND IC=(C12P) AND PY>=(2017) AND PY<=(2022) AND CTB=(bioethanol or biofuel or bioalcohol or biobutanol);
```

1,934 Individual records 845 DWPI families 940 INPADOC families 1,664 application numbers

See patent family information

See if any associated litigation is there

<input checked="" type="checkbox"/>	#	MA...	PDF	↓ PUBLICATION NUMB...	↓ IP CASES ...	↓ ASSIGNEE/APPLICA...	↑ PUBLICATION DA...	TITLE	↓ CURRENT I...	↓ RELEVAN...	↓ OPTIMIZED ASSIGN...	↓ PRIORITY COUNTRY/REGION EARLIEST-D...	↓ COUNT OF
<input checked="" type="checkbox"/>	1			EP4010527A1	-	AMERICAN PROCESS INT LLC	2022-06-15	PROCESS FOR THE PRODUCTION OF CELLULOSE, LIGNOCELLULOSIC SUGARS, LIGNOSULFONATE, AND ETHANOL	D21C 1/02	207	-	US	0
<input checked="" type="checkbox"/>	2			EP3401322B1	-	VIRDIA LLC	2022-06-08	LIGNOCELLULOSE CONVERSION PROCESSES AND PRODUCTS	C07G 1/00	19	-	US	0
<input checked="" type="checkbox"/>	3			CN111304262B	-	Qilu University of Technology	2022-05-27	Pre-treatment method for promoting efficient utilization of biomass	C12P 7/10	46	-	CN	0
<input checked="" type="checkbox"/>	4			EP3230463B1	-	SWEETWATER ENERGY INC	2022-05-25	RAPID PRETREATMENT	C12P 19/02	102	SWEETWATER ENERGY INC	US	0
<input checked="" type="checkbox"/>	5			EP4001419A1	-	DSM IP ASSETS BV	2022-05-25	PROCESS FOR ENZYMATIC HYDROLYSIS OF LIGNOCELLULOSIC MATERIAL AND FERMENTATION OF SUGARS	C12P 7/06	49	ROYAL DSM NV	EP	0
<input checked="" type="checkbox"/>	6			US11337442B2	-	ROQUETTE FRERES	2022-05-24	Method for the valorisation of yeast biomass resulting from the production of ethanol	A23K 10/38	14	ROQUETTE GROUP	FR	0
<input checked="" type="checkbox"/>	7			AU2020374934A1	-	NANJING LETOP BIOTECHNOLOGY CO LTD	2022-05-19	Low molecular weight chondroitin sulfate, composition containing same, and preparation method therefor and use thereof	C12P 19/14	39	NANJING LETOP BIOTECHNOLOGY CO., LTD.	WO	0

# Smart Search

Smart Search significantly reduces the time taken to get to relevant results for any patent activity

1. Take any block of text that describes what you are looking for :

- Product Description from a website
- Invention Disclosure
- Claims from a Patent

2. The algorithm will use the "Smart Themes" (converted from the text)

3. Results are returned in relevance ranked order

**Job done in five minutes!**

Smart Search-Topic  ?

Publication Date  To  ?

Assignee/Applicant  Browse  Include blank fields

...Inventor-Original  ?

"EVAPORATOR" "REFRIGERANT" "REFRIGERATING" "COOLING SPACE" "COMPRESSOR" "REFRIGERATOR" "HEAT EXCHANGE" "BETWEEN EVAPORATORS" "HEAT EXCHANGING" "AIR CONDITIONER" "COOL COOLING" "EFFECTIVELY COOLS"

**SEARCH RESULTS**

1,000 record(s) found out of 114,213,493 searched (display limit 1,000) 0 record(s) selected

Displaying 1 - 10 of 1000 Page 1 of 100

Item	Publication Number	Inventor	DWPI Assignee/Applicant	Publication Date	DWPI Assignee Code	Relevancy	Co
1	US8978410B2	Oh Min-Kyu	LG ELECTRONICS INC	2015-03-17	GLDS	100	2
	Title: <b>Refrigerating system</b> having two evaporators performing <b>heat exchange</b> DWPI Title: <b>Refrigerating system</b> for e.g. refrigerator, has cycle circulating <b>refrigerant</b> discharged from <b>compressor</b> , and <b>heat exchanging</b> unit performing <b>heat exchange</b> between <b>evaporators</b> , where evaporators are provided to <b>cool cooling</b> spaces						
2	KR10201600691	LEE NAM GYO	LG ELECTRONICS INC	2013-12-30	GLDS	100	0
	Title: <b>Refrigerating system</b> CAPABLE OF REDUCING THE POWER CONSUMPTION OF THE PUMP DOWN OPERATION DWPI Title: <b>Refrigerating system</b> for e.g. refrigerator, has cycle circulating <b>refrigerant</b> discharged from <b>compressor</b> , and <b>heat exchanging</b> unit performing <b>heat exchange</b> between <b>evaporators</b> , where evaporators are provided to <b>cool cooling</b> spaces						
3	CN1523263A	YAMAZAKI HARUHISA	SANYO ELECTRIC CO LTD	2005-02-02	SAOL	100	1
	Title: Cooling apparatus DWPI Title: Cooling apparatus for use as e.g. store showcase, has control device to change continuous running time of <b>compressor</b> after <b>compressor</b> runs for specific time t based on temperature of detected cooled space						
4	CN100339267C	YAMAZAKI HARUHISA	SANYO ELECTRIC CO LTD	2008-01-02	SAOL	100	0
	Title: Cooling apparatus DWPI Title: Cooling apparatus for use as e.g. store showcase, has control device to change continuous running time of <b>compressor</b> after <b>compressor</b> runs for specific time t based on temperature of detected cooled space						

# Insights Dashboard

Insights Dashboard provides answers to your questions

1. Who are the major players?
2. Where is the technology being developed?
3. How is the technology trending?
4. What are my competitors working on?
5. Which are the most recent technologies?

In Just one Click

## INSIGHTS DASHBOARD

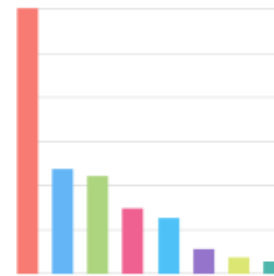
Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta.

### Who are the major players?

Identify the top assignees in this result set and total rem aperiam, eaque illo inventore veritatis quasi accusantium doloremque nus.

# 54%

The top assignee, Delos, Inc. has 54% (429 records) more than their closest competitor, Ford & Lowe, LLC



### Where is this technology being developed?

Uncover where companies file for initial protection and see which countries and regions are found in this search.

# 73%

CN and US are the top filing countries/regions, and account for 73 % of the total number of records.

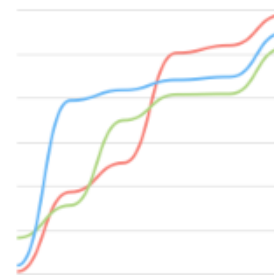


### How is the technology trending?

Identifies when a technology first appears and its evolution over time lorem ipsum dolor sit amet non conseciur adipiscing.

# 19%

The top technologies in this space are found in 89% of the result set, representing a diverse tech representation.



### What are my competitors working on?

Understand which technical areas the competition is focusing on dolor adipatum tetinanus pariatum aripitat.

# 92%

Overall there are 9 classifications represented making up the top 92 % of technologies in this chart.



.....In just one click

# Derwent Patent Citation Index (DPCI)

DPCI is the only editorially enhanced database available focusing on patent citations – **Making it easy to find closely related patents**

- Shares the same editorial process as DWPI
- All citations are verified for accuracy, ensuring complete citation coverage at the invention level
- These citations cross disciplines to include all technologies and citations, **including citations from examiners, inventors, oppositions, and third parties**

**US20060216222A1**

Collapse DPCI Citing Patents

	Publication number	Accession Number	Publication date	Application date	DWPI Family Member(s)	Relevance	Source
	<a href="#">CN100586848C</a>	2008-M35316	2010-02-03	2008-01-22	<a href="#">US20060216222A1</a>	-	0 (Examiner)
	<p>DWPI title: Preparation of conductive single-layer graphite sheet with ion liquid cation radical decoration by using water ion liquid and graphite stick as electrode electrolyzing and obtaining the sheet-shaped single-layer graphite sheets</p> <p>DWPI Assignee/Applicant: UNIV NORTHEAST NORMAL (UYNO-C) ; UNIV DONGBEI NORMAL (UYDO-N) </p> <p>DWPI Inventor: LIU N ; LUO F </p>						
	<a href="#">CN102259849A</a>	2011-Q39327	2011-11-30	2011-06-09	<a href="#">US20060216222A1</a>	-	0 (Examiner)
	<p>DWPI title: Preparation of graphene with solid carbon source involves spraying organic polymer on metal substrate heating substrate spraying solid carbon source filling protection gas heating and maintaining highest temperature and air flow</p> <p>DWPI Assignee/Applicant: WUXI DILIUANSU HI-TECH DEV CO LTD (WUXI-N) ; WUXI SIXTH ELEMENT HI-TECH DEV CO LTD (WUXI-N) </p> <p>DWPI Inventor: QU Y </p>						
	<a href="#">CN10388987A</a>	2013-C57399	2014-06-25	2012-08-13	<a href="#">US20060216222A1</a>	A	0 (Examiner)
	<p>DWPI title: Making architectural construct e.g. to build microcircuit involves dehydrogenating hydrocarbon by applying heat through substrate to deposit carbon onto substrate forming layers of matrix characterization of carbon derived from hydrocarbon</p>						

Collapse DPCI Citation Counts

DPCI Citations	Total	Examiner	Inventor	Opposition	3 <sup>rd</sup> party	Undefined
Citing Patents	79	58	21	0	0	0
Cited Patents	13	13	0	0	0	0
Citing Authorities	3	3	2	0	0	0
Cited Authorities	1	1	0	0	0	0
Citing Accession Numbers	58	39	20	0	0	0
Cited Accession Numbers	11	11	0	0	0	0
Cited Non-patents	2	2	0	0	0	0

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