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2015 July



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**2** Display results or quick charts

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The screenshot shows the search interface with several elements highlighted by orange boxes and arrows:

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- Search Query:** A box highlights the search input field containing the query: `ICL/(H04N* or G02B*) and ("camera lens" or "optical lens" or "optical device")`. An arrow points to step 2.
- Search Button:** A box highlights the search button (magnifying glass icon), with an arrow pointing to step 3.
- Dropdown Menu:** A box highlights the dropdown menu below the search field, showing 'Patent search' (selected) and 'Statistical chart'.

Change language



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ICL/(H04N\* or G02B\*) and ("camera lens" or "optical lens" or "optical device")

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Searching settings

Sort

Publication/issue

Group

Assignee

Refine your search

- Country Code
- Patent type
- Kind Code
- Assignee
- Inventor
- Agent
- Primary Examiner
- USPC

IPC

- (5564) H04N005/225
- (5552) G02B006/42
- (4900) G02B006/26
- (4264) G02B006/12
- (3365) G02B006/00
- (3088) G02B007/02
- (2981) G02B006/34
- (2970) H04N007/18

Change sorting order

Change grouping order

Filter and drill-down

Change search criteria

View quick charts

Change preferences

Change display mode:  
1. Summary View  
2. Grid View  
3. List View

Group name	Total
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> セイコーエプソン株式会社	780
> 株式会社ニコン	736
> Fujitsu Limited	716
> Nikon Corporation	696

All on this page    << 1 / 14 >>    50 items per page

1. Projection optical system, exposure apparatus, and exposure method



Pub./Issue No.:  
[US9086635B2](#)

Pub/Issue Date:  
2015-07-21    2009-02-20

Assignee:  
[Nikon Corporation](#)

Click to open patent document in new window

Inventor:  
[Omura Yasuhiro](#)

IPC:  
[G02B 17/00](#) +4

CPC:  
[G03F 7/7015](#) +1

A catadioptric projection optical system includes a plurality of lenses which are arranged between a first plane on which the pattern is arranged and a second plane on which the substrate is arranged. Two mirrors are arranged in an optical path of the light beam between the plurality of lenses and the second plane. A dioptric optical system is arranged in an optical path of the light beam between the two mirrors and the second plane the dioptric optical system forming the image of the pattern onto the second plane by the light beam from the two mirrors. The dioptric optical system includes a first negative lens and a second negative lens, the second negative lens being



ICL/(H04N\* or G02B\*) and ("camera lens" or "Optical lens" or "optical device")

Searching settings 🔍 📊 Search History Save

Sort

Publication/issue date, latest

91,879 results ⚙️ 📄 📑



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- Country Code
- Patent type
- Kind Code
- Assignee
- Inventor
- Agent
- Primary Examiner
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- LOC
- CPC

#	Pub./Issue No.	Title	Pub/Issue Date	Pub/Issue No.	Pub/Issue Date	Pub/Issue No.	Total
1	US9054812B2	Optical module	2015-06-09	14/192294	2014-02-27	FUJITSU LIMITED	1881
2	US9025914B2	Optical module	2015-05-05	14/190379	2014-02-26	Fujitsu Limited	1418
3	US20150117818A1	SPOT SIZE CONVERTER AND OPTICAL ...	2015-04-30	14/488727	2014-09-17	FUJITSU LIMITED	1260
4	US9002147B2	Optical semiconductor device	2015-04-07	14/474987	2014-09-02	Fujitsu Limited	1050
5	US8920042B2	Optical connector, optical fiber incorporatin...	2014-12-30	13/359871	2012-01-27	Fujitsu Limited +1	973
6	US8891919B2	Optical device, optical connector, and optic...	2014-11-18	13/453117	2012-04-23	Fujitsu Limited	
7	US8882362B2	Methods for optical device including transp...	2014-11-11	14/184028	2014-02-19	Fujitsu Limited	
8	US8876401B2	Optical device and method of manufacturin...	2014-11-04	13/448693	2012-04-17	Fujitsu Limited	
9	US8876412B2	Optical connector and electronic equipment	2014-11-04	13/501244	2012-07-20	Fujitsu Limited	



Set monitors and alerts

Tree Overview

Vaccin

Vaccin

- Technical Structure (6)
  - Multivalent (7)
    - Same Pathogen (0)
- Manufacturing (0)
  - Adjuvant Preparation (0)
  - Antigen Preparation (9)
    - Vaccine Preparation (2)
      - Vaccine Formula (0)
      - Vaccine Formulator
      - Packaging (0)
    - Material (0)
    - Expression Platform (2)

Customize your folder structure

Click to view patent in working panel below

Mark patents with custom tags for easy sorting

**+ Add New Patents**

3	<input checked="" type="checkbox"/>	CA1341166C	ANTIGENIC PROTEINS AND VACCINES ...	2001-01-
4	<input type="checkbox"/>	CA2223608A1	VACCINE FOR PORCINE REPRODUCTIV...	1996-12-
5	<input type="checkbox"/>	CA2301920A1	VACCINE AGAINST HPV VACCIN	1999-03-
6	<input checked="" type="checkbox"/>	CA2313028A1	COMBINANT ANTIBOD...	1999-06-
7	<input checked="" type="checkbox"/>	CA2505869C	LIVE ATTENUATED VACCINE AGAINST P...	2012-03-
8	<input checked="" type="checkbox"/>	CA2510654A1	ANTIGENS FOR ACTINOBACILLUS PLEU...	2003-06-
9	<input type="checkbox"/>	CA2565247C	CONSERVED INNER CORE LIPOPOLYSA...	2014-03-

1 / 3 50 items per page

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CA2510654A1 **Bibliography** Abstract **Memo** Related Node

Risk	High	Medium	
Relevance	High	Medium	
技術門檻	高	中	低
市場成熟度	高	中	低

Inventor(Std): SIROIS MARC ; KHAMESSAN ALI ; MIKAEL LEONIE G ; COLLTON JAMES ; JACQUES MARIO

Add notes and memo to patent text

1 Click to enter Project working environment

Vaccine X

Vaccine X (145)

- Technical Structure (6)
- Multivalent (7)
  - Same Pathogen (0)
- Different Pathogens
  - PRRSV (22)
  - A. pleuropneum...
  - M hyorhinis (4)
- Manufacturing (0)
  - Vaccine Preparation (0)
  - Vaccine Formula
  - Vaccine Formula
  - Packaging (0)

Classified by Claims

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Move Patent

Check desired patents from the list to the left and right-click here to sort into destination folder



**1 Switch to Analysis Mode**

- Patent DB Management
- Automatic Monitoring
- Data Editing

Statistical Chart

Matrix Chart

**Analysis Scope**

Analysis History

Save

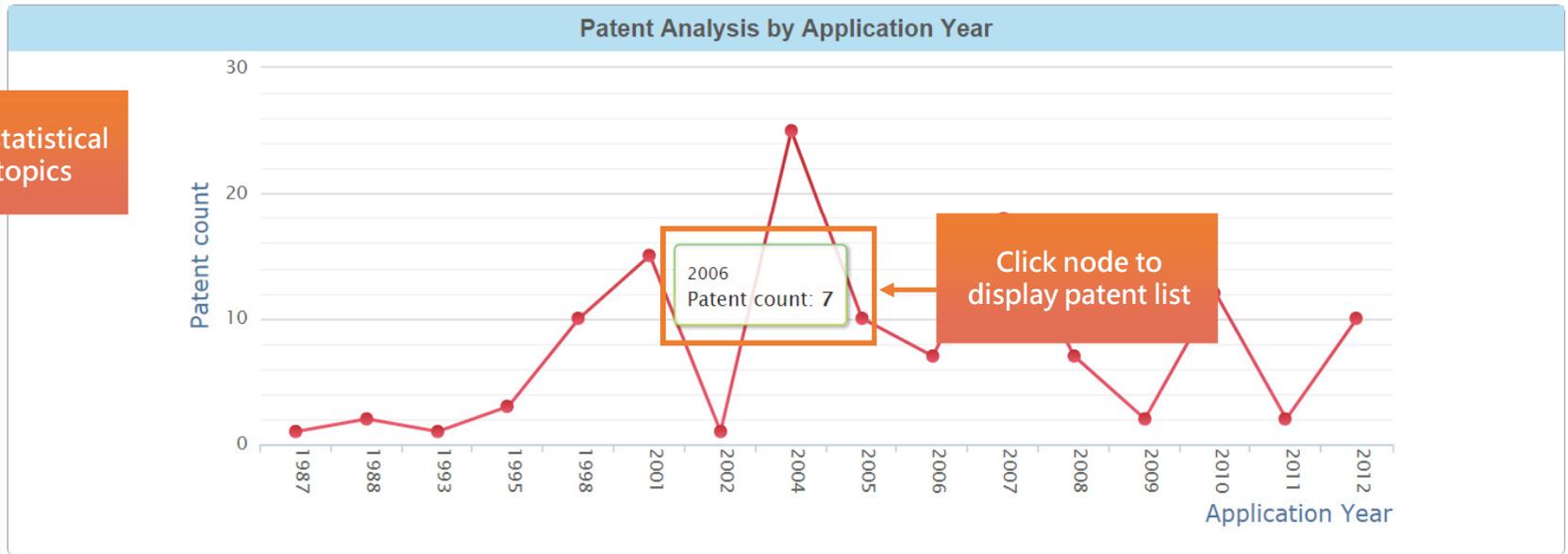
Export

Overview

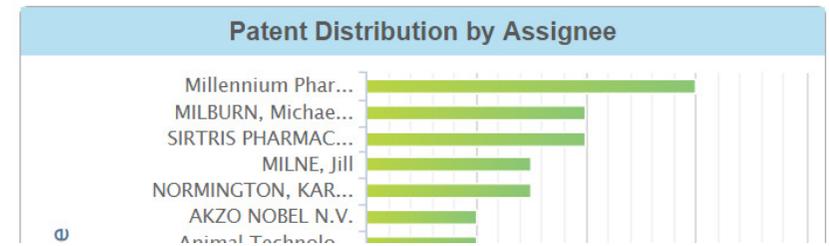
Total number

Refine analysis criteria

Change statistical chart topics



Click node to display patent list



Overview

- Patent type
  - Application year
  - Publication year
  - Issue year
- PTO
  - Patent count
  - Application year
  - Publication year
  - Issue year
- Annual
  - Application year
  - Publication year
  - Issue year
- Assignee
  - Patent count
  - Application year
  - Publication year
  - Issue year
  - IPC
  - USPC
  - Inventor
- Inventor
  - Patent count
  - Application year
  - Publication year
  - Issue year

Switch to Matrix Chart mode to create custom reports

Matrix Chart

Report Setting

Scope

Analysis History

Save

Export

Expirt to Excel

3 Click "Generate" to run

Y-Axis

Tree  Node

Vaccine X > Technical Structure

1 Define Y-axis criteria

X-Axis

Recommended Chart

Level 1 Field    Level 2 Field

Assignee - Country

Assignee - Appl. Year

Assignee - Publ. Year

Assignee - None

Inventor - None

Country - None

Appl. Year - None

Tree/Node - None

2 Define X-axis criteria

Click on cell to view patent list

Appl. Year	1986-1990	1991-1995	1996-2000	2001-2005	2006-2010
Same Pathogen			2	2	6
Different Pathogens					3
PRRSV		1	4	7	7
A. pleuropneumoniae		1	2	16	5
M hyorhinis				2	2
Manufacturing					
Adjuvant Preparation					
Antigen Preparation				1	6
Extraction					
Purification					
Antigen Expression Condtion/Protocol				5	
					1
					1
Vaccine Formulation			1	2	1
Packaging					
Material					
Expression Platform				2	
Expression Vector	4	2	4	19	19
Antigen Expression System					2

Analysis Scope

# THANK YOU

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