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Searching for patents

- Why does patent information matter?
- Espacenet
- The European Patent Register



Dominique Winne Examiner (ICT) 8 November 2017

Contents

§ Presentation

- Why patent information matters
- Espacenet
- The European Patent Register

Why patent information matters

European Patent Office

3

At least seven good reasons

European Patent Office

4

Because **patent information** helps you to

1 Avoid duplication of R&D expenditure

GB-A-2365393

(12) UK Patent Application GB (11) **2 365 393** (13) **A**

(13) Date of Publication 20.02.2002

(21) Application No 0019281.5	(51) INT CL. ⁷ B64C 25/40	(56) Documents Cited GB 234525 A GB 2193532 A GB 1407528 A US 4042882 A	GB 2242801 A GB 2080217 A GB 0516738 A US 3253940 A
(22) Date of Filing 07.08.2000	(52) UK CL (Edition T.1) B7G GPH	(58) Field of Search UK CL (Edition R.1) B7G INT CL ⁷ B64C 25/40	

(71) Applicant(s)
Peter John Glin
153 Walker Road, New Cross, LONDON, SE14 5LX,
United Kingdom

(72) Inventor(s)
Peter John Glin

(74) Agent and/or Address for Service
Peter John Glin
153 Walker Road, New Cross, LONDON, SE14 5LX,
United Kingdom

(54) Abstract Title
Rotating aircraft wheels prior to landing

(57) An aircraft tyre or wheel is provided with pockets or ridges 6, which catch the airflow past the wheel and cause the wheel to rotate. The pockets/ridges may be formed in the tyre or an additional member for attachment to the wheel. Means may be provided for diverting air from a pocket into the wheel assembly for cooling purposes.

US-A-1833019

Nov. 24, 1931.

J. A. FAUCHER ET AL.
AIRCRAFT TIRES
Filed Nov. 1, 1929

1,833,019

INVENTORS
Joseph A. Faucher
Eric P. Hultegren
By
Robert H. Fink
ATTORNEY

European Patent Office

6

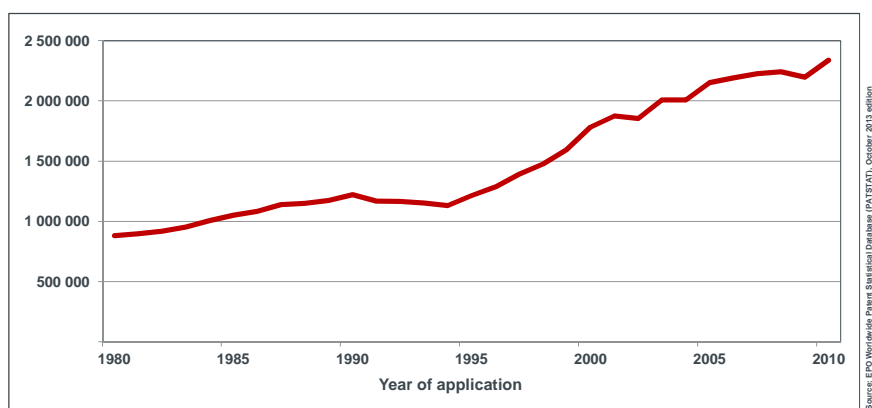
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**2 Find out what technology
already exists and build on it**

European Patent Office

7

More and more applications every year



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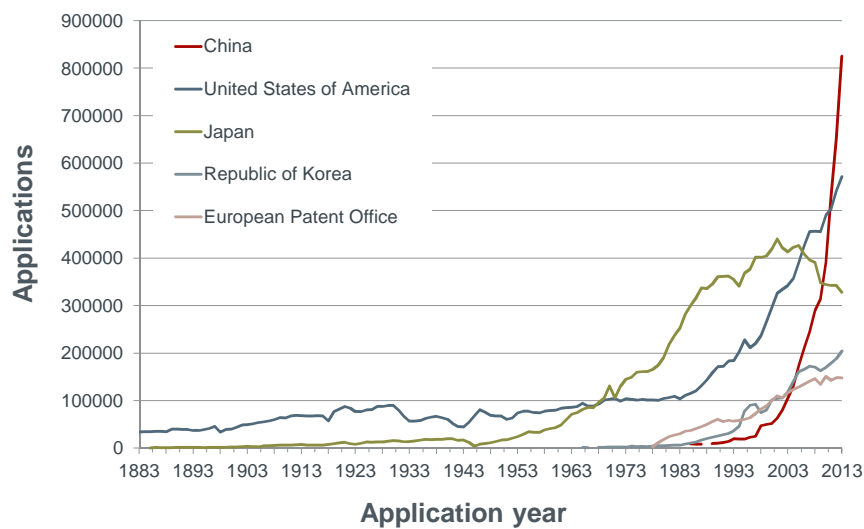
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in an **Asian language**

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12

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txt="scanner" and pd within "2002,2012" and pa=Siemens and num=EP

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17

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- * toggle between an in
- * see where IPC texts
- * choose whether note

Field identifier	Description	Examples
in	inventor	in=smith
pa	applicant	pa=siemens
ti	title	ti="mouse trap"
ab	abstract	ab="mouse trap"
pr	priority number	pr=ep20050104792
pn	publication number	pn=ep1000000
ap	application number	ap=ip19890234567
pd	publication date	pd=20080107 OR pd="07/01/2008" OR pd=07/01/2008
cl	citation/ cited document	cl=ep1000000
cpc	Cooperative Patent Classification	cpc="A61K31/13"
cpcc	Classification combination	cpcc="C08F8/30", cpcc="C08F297/02"
ftb, desc, claims	Full text, description, claims	ftb=microscope, desc=leas, claims=laser
ia	inventor and applicant	ia=Apple OR ia="Ries Klaus"
ta	title and abstract	ta="laser printer"
bt	title, abstract, inventor and applicant	bt=microscope lens
num	application, publication and priority number	num=ep1000000
ipc	all current and previous versions of the IPC	ipc=A63B49/08
cl	IPC and CPC	cl=C10J3

European Patent Office

18

Example



Spectacles with **liquid lens** to **adjust focal length**

Source: <http://www.eyejusters.com>

European Patent Office

19

Espacenet truncations (wildcards)

? Replaces 0 or 1 character

car? • car, cars, card, ~~cards~~, ~~carrier~~

Replaces exactly 1 character

car# • ~~car~~, cars, card, ~~cards~~, ~~carrier~~

* Replaces a character string of any length

car* • car, cars, card, cards, carrier

Only right-hand truncation

car* • car, cars, card, carrier, ~~car*s~~

European Patent Office

20

Smart search
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Smart search:
(spectacle? OR glass??) AND lens?? AND adjust* AND (fluid? OR liquid?) AND 1997:2014]

216 results found in the Worldwide database for:
(((txt = spectacle? OR txt = glass??) AND txt = lens??) AND txt = adjust*) AND (txt = fluid? OR txt = liquid?) AND pd within 1997,2014 using Smart search

Sort by: Priority date Sort order: Ascending Sort

1. LIQUID CRYSTAL LENS CIRCUIT

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
GROSS HYMAN A M [GB] MCMAHON RICHARD A [GB]	GROSS HYMAN A. M. MCMAHON RICHARD A. (+1)	G02C7/101 G02F1/13306	G02C7/10 G02F1/133 (IPC1-7), G09 G3/36	US2002044112 (A1) 2002-04-18 US6433770 (B1) 2002-08-13	1992-01-20

5. Optical apparatus and method

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
SILVER JOSHUA DAVID [GB]	SILVER JOSHUA DAVID [GB]	G02B3/12 G02B3/14 G02C7/085	G02B3/12 G02B3/14 G02C7/02 (+4)	US6069742 (A) 2000-05-30	1995-06-01

6. An optical apparatus and method

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
SILVER JOSHUA DAVID	SILVER JOSHUA DAVID [GB]	G02B3/12 G02B3/14 G02C7/085	G02B3/12 G02B3/14 G02C7/08 (+4)	GB2316767 (A) 1998-03-04 GB2316767 (B) 1999-09-29	1995-06-01

7. VIDEO DISPLAY DEVICE

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MOTOHARA KUNIO	CANON KK		G02F1/13 G02F1/133 G02F1/1335 (+6)	JPH0943563 (A) 1997-02-14	1995-07-28

European Patent Office

Bibliographic data: EP0830620 (B1) — 2004-02-04

★ In my patents list ✖ EP Register → Report data error

AN OPTICAL APPARATUS AND METHOD

Page bookmark: EP0830620 (B1) - AN OPTICAL APPARATUS AND METHOD

Inventor(s): SILVER JOSHUA DAVID [GB] ±

Applicant(s): SILVER JOSHUA DAVID [GB] ±


Classification:
- international: G02B3/12; G02B3/14; G02C7/02; G02C7/08; (IPC1-7): G02B3/12; G02B3/14; G02B7/188; G02C7/08
- cooperative: G02B3/12; G02B3/14; G02C7/085

Application number: EP19960920911 19960601

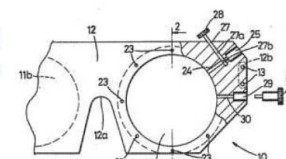
Priority number(s): WO19960801304 19960601; GB19950011091 19950601

Also published as: EP0830620 (A1) WO9638744 (A1) US6069742 (A) TR9701476 (T1) SK159397 (A3) → more




Abstract not available for EP0830620 (B1)
Abstract of corresponding document: WO9638744 (A1)

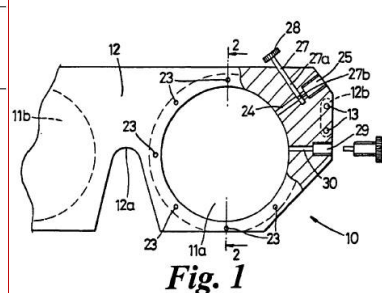
Translate this text into:
Bulgarian  powered by EPD and Google

In the field of eyesight correction, there is a need for "universal" spectacles that can be tailored in situ to suit individuals' requirements. The disclosure relates to an apparatus, which may be in the form of a pair of spectacles (10) including one or more liquid lenses (11a, 11b). The apparatus also includes a sealable duct (24) and a pump (e.g. a syringe) for adjusting the pressure of liquid in the liquid lens in use. The apparatus is adjusted to provide eyesight correction for an individual. The duct (24) is then sealed, thereby rendering the apparatus subsequently non-adjustable and therefore permanently tailored to the requirements of the individual. The disclosure also relates to an apparatus in the form of a flexible membrane mirror.

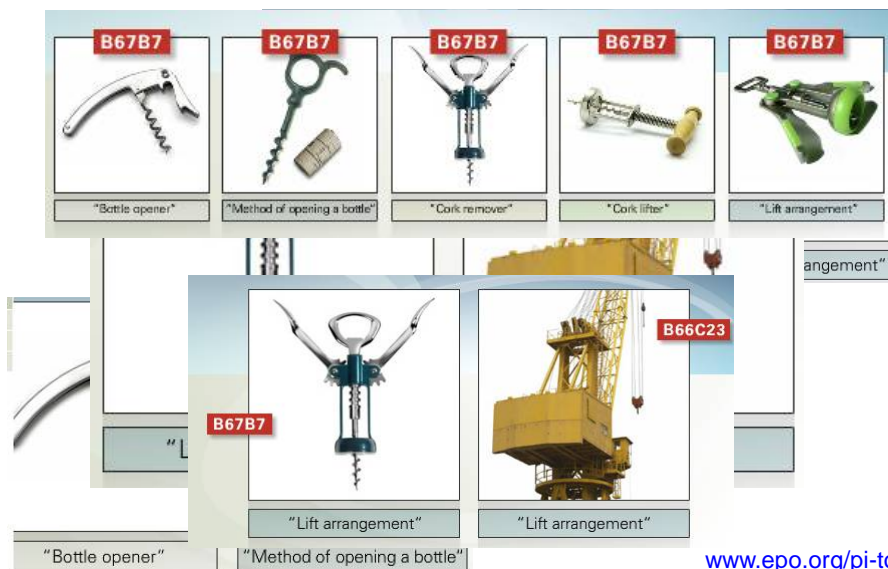


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<p>(19)  Europäisches Patentamt European Patent Office Office européen des brevets</p>		<p>(11)  EP 0 830 620 B1</p>	
<p>(12) EUROPEAN PATENT SPECIFICATION</p>			
<p>(45) Date of publication and mention of the grant of the patent: 04.02.2004 Bulletin 2004/06</p>		<p>(51) Int Cl.7: G02B 3/12, G02B 3/14, G02C 7/08, G02B 7/188</p>	
<p>(21) Application number: 96920911.3</p>		<p>(86) International application number: PCT/GB1996/001304</p>	
<p>(22) Date of filing: 01.06.1996</p>		<p>(87) International publication number: WO 1996/038744 (05.12.1996 Gazette 1996/53)</p>	
<p>(54) AN OPTICAL APPARATUS AND METHOD OPTISCHES VERFAHREN UND VORRICHTUNG PROCEDE ET DISPOSITIF OPTIQUE</p>			
<p>(84) Designated Contracting States: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV SI</p>		<p>(74) Representative: Cockbain, Julian, Dr. Frank B. Dehn & Co., European Patent Attorneys, 179 Queen Victoria Street London EC4V 4EL (GB)</p>	
<p>(30) Priority: 01.06.1995 GB 9511091</p>		<p>(56) References cited: DE-A- 4 217 853 GB-A- 258 325 GB-A- 571 912 JP-A- 58 208 705 JP-A- 60 150 006 JP-A- 60 159 703 LU-A- 75 257 US-A- 4 890 903 US-A- 4 950 289</p>	
<p>(43) Date of publication of application: 25.03.1998 Bulletin 1998/13</p>		<p>• TRANSACTIONS OF THE OPHTHALMOLOGICAL SOCIETY OF THE UNITED KINGDOM, vol. 98, 1978, pages 84-87, XP002014655 WRIGHT B M: "Variable Focus Spectacles"</p>	
<p>(73) Proprietor: Silver, Joshua David Oxford, OX2 9HD (GB)</p>		<p>(72) Inventor: Silver, Joshua David Oxford, OX2 9HD (GB)</p>	
<p>European Patent Office 23</p>			




Excursion: Classification systems



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☒ full
☐ hierarchic

☐ Standardized sequence
☒ Deleted entries
☐ Subclass indexes
☒ Guidance Headings
☒ Notes

Search

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Assistance
Text categorization (IPCCAT)

Scheme	RCL	Compilation	Catchwords	Corrigendum
A				
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C				
D				
E				
F				
G				
H				

SECTION A — HUMAN NECESSITIES

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

SECTION C — CHEMISTRY; METALLURGY

SECTION D — TEXTILES; PAPER

SECTION E — FIXED CONSTRUCTIONS

SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

SECTION G — PHYSICS

SECTION H — ELECTRICITY

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Classification systems

The **IPC** has a hierarchical structure:

Sections	A, B, C, D, E, F, G, H
Classes	e.g. A47
Sub-classes	e.g. A47J
Groups	e.g. A47J37
Sub-groups	e.g. A47J37/08
CPC	e.g. A47J37/0821

Cooking; Apparatus for making beverages

A47J 37/00	Baking; Roasting; Grilling; Frying (bakers' ovens, non-domestic baking apparatus or equipment A21B ; domestic stoves or ranges F24B , F24C .)
A47J 37/06	• Roasters; Grills; Sandwich grills
A47J 37/08	• • Bread-toasters (electric heating elements H05B)
A47J 37/0814	• • • [with automatic bread ejection or timing means] ((A47J 37/0857 takes precedence))
A47J 37/0821	• • • • [with mechanical clockwork timers]

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Cooperative Patent Classification

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[A](#)
[B](#)
[C](#)
[D](#)
[E](#)
[F](#)
[G](#)
[H](#)
[Y](#)

Symbol	Classification and description	
<input type="checkbox"/> A	HUMAN NECESSITIES	<input type="button" value="S"/>
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING	<input type="button" value="S"/> <input type="button" value="I"/>
<input type="checkbox"/> C	CHEMISTRY; METALLURGY	<input type="button" value="S"/> <input type="button" value="I"/>
<input type="checkbox"/> D	TEXTILES; PAPER	<input type="button" value="S"/>
<input type="checkbox"/> E	FIXED CONSTRUCTIONS	<input type="button" value="S"/>
<input type="checkbox"/> F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING	<input type="button" value="S"/> <input type="button" value="I"/>
<input type="checkbox"/> G	PHYSICS	<input type="button" value="S"/> <input type="button" value="I"/>
<input type="checkbox"/> H	ELECTRICITY	<input type="button" value="S"/> <input type="button" value="I"/>
<input type="checkbox"/> Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACS] AND DIGESTS	<input type="button" value="S"/> <input type="button" value="I"/>

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27

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View section Index **A** B C D E F G H Y

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Cooperative Patent Classification

Search for A47J37

View section Index **A** B C D E F G H Y

⌕ A47J36/00 ⌕ A47J39/00 »

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
Personal or domestic articles	
<input type="checkbox"/> A47	FURNITURE (arrangements of seats for, or adaptations of seats to, vehicles B60N); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders E06C)
<input type="checkbox"/> A47J	KITCHEN EQUIPMENT (domestic washing or cleaning A47L ; refuse receptacles B65F , I00); COFFEE MILLS; SPICE MILLS; APPARATUS FOR MAKING BEVERAGES (disintegrating, e.g. milling , B02C ; severing, e.g. cutting, slicing, B26B , B26D)
Cooking: Apparatus for making beverages	
<input checked="" type="checkbox"/> A47J 37/00	Baking: Roasting; Grilling; Frying (bakers' ovens, non-domestic baking apparatus or equipment A21B ; domestic stoves or ranges F24B , F24C)
<input type="checkbox"/> A47J 37/06	• Roasters; Grills; Sandwich grills
<input type="checkbox"/> A47J 37/08	• • Bread-toasters (electric heating elements H05B)
<input type="checkbox"/> A47J 37/0807	• • • [with radiating heaters and reflectors]
<input type="checkbox"/> A47J 37/0814	• • • [with automatic bread ejection or timing means] (A47J 37/0857 takes precedence)
<input type="checkbox"/> A47J 37/0821	• • • • [with mechanical clockwork timers]
<input type="checkbox"/> A47J 37/0828	• • • • [with pneumatic or hydraulic timers]
<input type="checkbox"/> A47J 37/0835	• • • • [with thermal timers]
<input type="checkbox"/> A47J 37/0842	• • • • [with electronic timers]
<input type="checkbox"/> A47J 37/085	• • • • [with means for sensing the bread condition]
<input type="checkbox"/> A47J 37/0857	• • • [with bread supports or heating means movable during the toasting operation] (meat roasting A47J 37/04)
<input type="checkbox"/> A47J 37/0864	• • • [Bun toasters]
<input type="checkbox"/> A47J 37/0871	• • • [Accessories]
<input type="checkbox"/> A47J 37/0878	• • • • [Warming racks]
<input type="checkbox"/> A47J 37/0885	• • • • [Toaster inserts; Removable bread tongs]
<input type="checkbox"/> A47J 37/0892	• • • • [Devices for providing browning patterns on the toasted surface]

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Classification search			

Symbol	Classification and description
<input type="checkbox"/> G	PHYSICS S I
Instruments	
<input type="checkbox"/> G02	OPTICS (making optical elements or apparatus B24B , B29D 11/00 , C03 , or other appropriate subclasses or classes; materials per se, see the relevant places, e.g. C03B , C03C) I
<input type="checkbox"/> G02B	OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS (G02F takes precedence; measuring-instruments, see the relevant subclass of G01 , e.g. optical rangefinders G01C ; testing of optical elements, systems, or apparatus G01M 11/00 ; spectacles G02C ; sound lenses G10K 11/30 ; electron and ion "optics" H01J ; X-ray "optics" H01J , H05G 1/00 ; optical elements structurally combined with electric discharge tubes H01J 5/16 , H01J 29/89 , H01J 37/22 ; microwave "optics" H01Q ; combination of optical elements with television receivers H04N 5/72 ; heating arrangements specially adapted for transparent or reflecting areas H05B 3/84 ; (optical apparatus 42H)) S D I !
<input checked="" type="checkbox"/> G02B 3/00	Simple or compound lenses (artificial eyes A61F 2/14 ; spectacle lenses or contact lenses for the eyes G02C ; watch or clock glasses G04B 39/00) D
<input type="checkbox"/> G02B 3/12	• Fluid-filled or evacuated lenses
<input checked="" type="checkbox"/> G02B 3/14	• • of variable focal length


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Application number: <input type="text" value="DE19971031696"/>	
Priority number: <input type="text" value="WO1995US15925"/>	
Enter one or more dates or date ranges	
Publication date: <input type="text" value="1997.2014"/>	yyyymmdd
Enter name of one or more persons/organisations	
Applicant(s): <input type="text" value="Institut Pasteur"/>	
Inventor(s): <input type="text" value="Smith"/>	
Enter one or more classification symbols	
CPC <input type="text" value="G02B3/14; G02C7/085; low"/>	
IPC <input type="text" value="H03M1/12"/>	
<input type="button" value="Clear"/> <input type="button" value="Search"/>	

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78 results found in the Worldwide database for:
1997:2014 as the publication date AND **G02B3/14/low G02C7/085/low** as the Cooperative Patent Classification



	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
4. Liquid-filled variable focus lens with band actuator	★ KURTIN STEPHEN [US] FEDELE DANIEL E [US] (+1)	KURTIN, STEPHEN, FEDELE, DANIEL E, (+1)	G02B3/14 G02C7/085	G02B3/12 G02B3/14 G02C7/08 (+1)	US5999328 (A) 1999-12-07	1994-11-08
5. AN OPTICAL APPARATUS AND METHOD	★ Inventor:	Applicant:	CPC: G02B3/12 G02B3/14 G02C7/085	IPC: G02B3/12 G02B3/14 G02C7/02 (+1)	Publication info: KR100449565 (B1) 2004-12-17	Priority date: 1995-06-01
6. An optical apparatus and method	★ Inventor: SILVER JOSHUA DAVID	Applicant: SILVER JOSHUA DAVID [GB]	CPC: G02B3/12 G02B3/14 G02C7/085	IPC: G02B3/12 G02B3/14 G02C7/08 (+4)	Publication info: GB2316767 (A) 1998-03-04 GB2316767 (B) 1999-09-29	Priority date: 1995-06-01
7. Fluid filled and pressurized lens with flexible optical boundary having variable focal length	★ Inventor: FLOYD JOHNNIE E [US]	Applicant: FLOYD, JOHNNIE E	CPC: G02B3/14 G02C7/085	IPC: G02B3/14 G02C7/08 (IPC1-7): G02 B1/06	Publication info: US5684637 (A) 1997-11-04	Priority date: 1995-07-19
8. Improvements in variable focus optical devices	★ Inventor: DAVID SILVER JOSHUA	Applicant: DAVID SILVER JOSHUA	CPC: G02B3/14 G02C7/085	IPC: F04B53/14 F04B53/16 G02B26/02 (+3)	Publication info: CN102798905 (A) 2012-11-28	Priority date: 1998-03-19

European Patent Office 31

6. An optical apparatus and method

★ Inventor: SILVER JOSHUA DAVID
Applicant: SILVER JOSHUA DAVID [GB]

CPC: G02B3/12
G02B3/14
G02C7/085

IPC: G02B3/12
G02B3/14
G02C7/08 (+4)

Publication info: GB2316767 (A)
1998-03-04
GB2316767 (B)
1999-09-29

Priority date: 1995-06-01

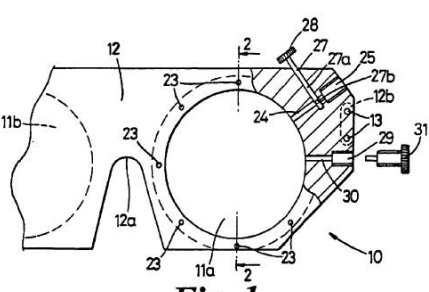


Fig. 1

Europäisches Patentamt
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(11) EP 0 830 620 B1

(12) EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention of the grant of the patent: 04.02.2004 Bulletin 2004/06

(51) Int Cl.: G02B 3/12, G02B 3/14, G02C 7/08, G02B 7/188

(21) Application number: 96920911.3

(86) International application number: PCT/GB1996/001364

(22) Date of filing: 01.06.1996

(87) International publication number: WO 1996/038744 (05.12.1996 Gazette 1996/53)

(54) AN OPTICAL APPARATUS AND METHOD
OPTISCHES VERFAHREN UND VORRICHTUNG
PROCEDE ET DISPOSITIF OPTIQUE

(84) Designated Contracting States: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States: AL LT LV SI

(74) Representative: Cockbain, Julian, Dr.
Frank B. Dehn & Co.,
European Patent Attorneys,
179 Queen Victoria Street
London EC4V 4EL (GB)

(30) Priority: 01.06.1995 GB 9511091

(43) Date of publication of application: 25.03.1998 Bulletin 1998/13

(72) Inventor: Silver, Joshua David
Oxford, OX2 9HD (GB)

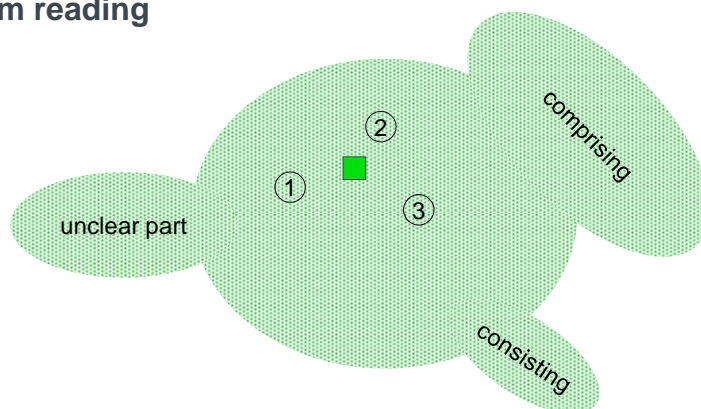
(73) Proprietor: Silver, Joshua David
Oxford, OX2 9HD (GB)

(56) References cited:
DE-A-4 217 853 GB-A-288 325
GB-A-571 912 JP-A-58 208 705
JP-A-60 150 006 JP-A-60 150 703
LU-A-75 257 US-A-4 890 903
US-A-4 950 289

* TRANSACTIONS OF THE
OPHTHALMOLOGICAL SOCIETY OF THE
UNITED KINGDOM, vol. 98, 1978, pages 84-87,
XP00201455 WRIGHT B II: "Variable Focus
Spectacles"

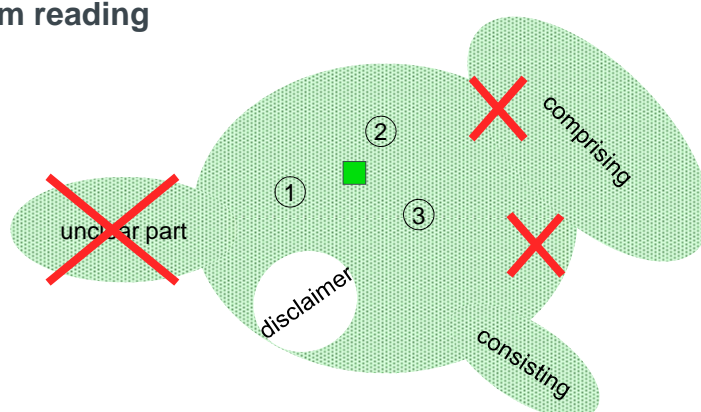
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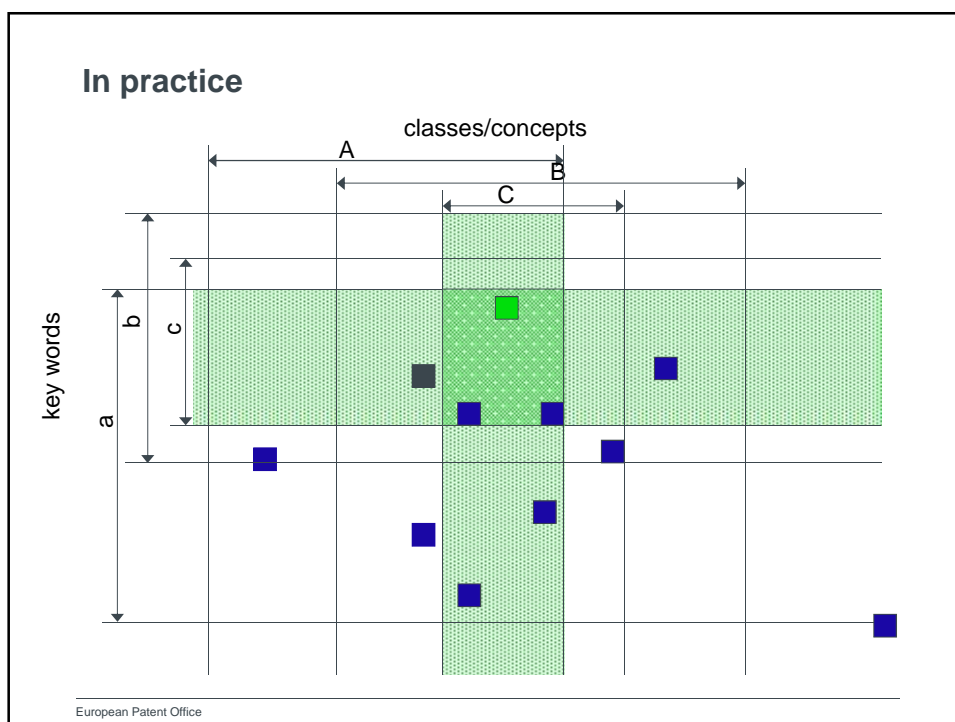
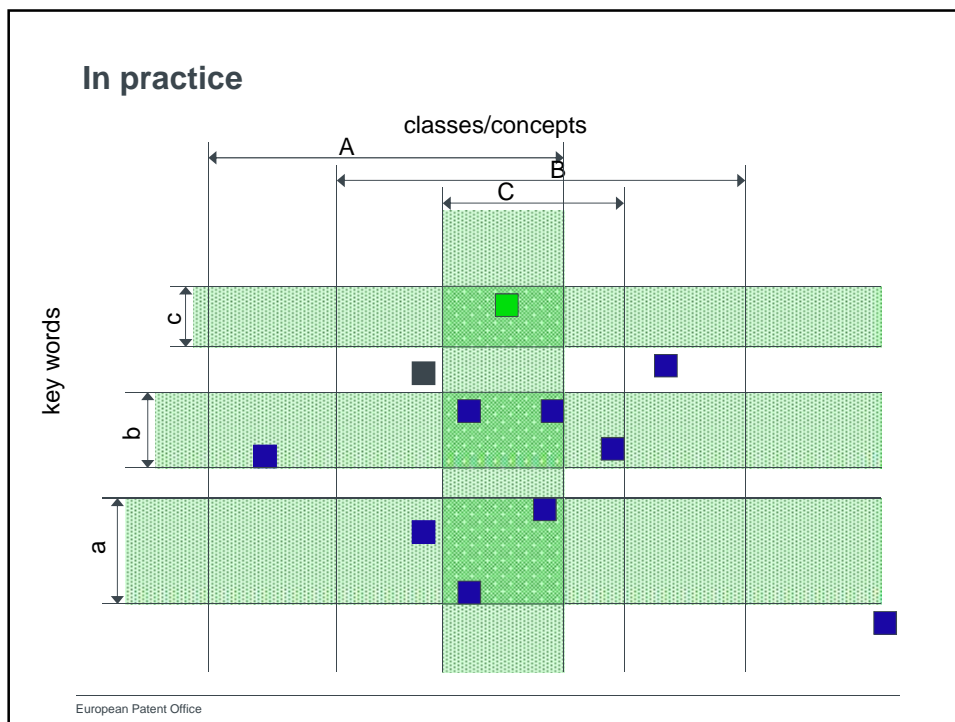
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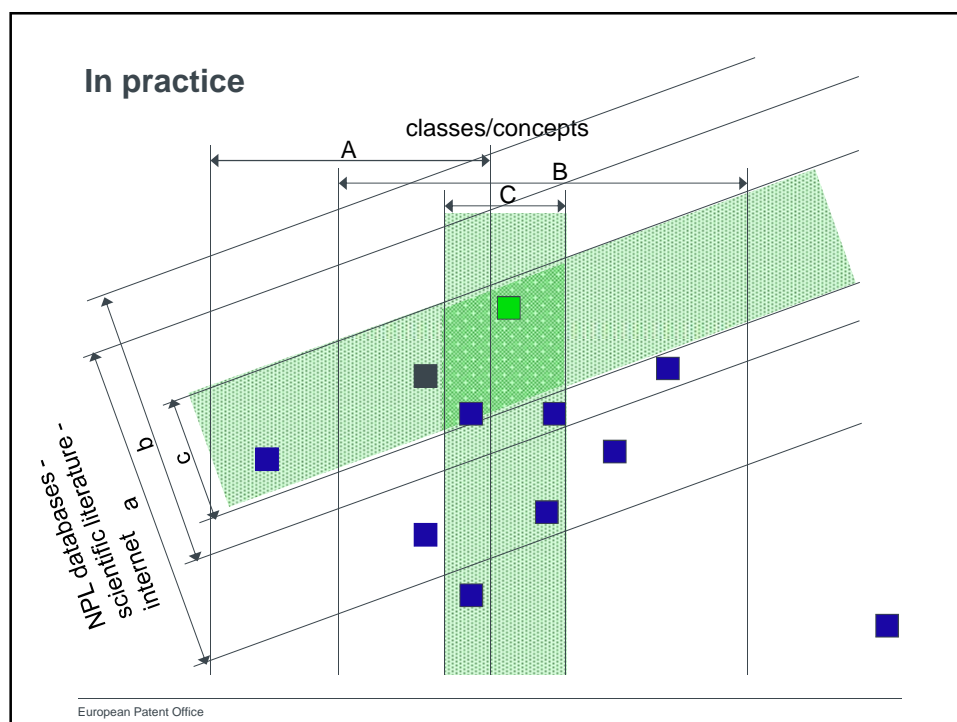
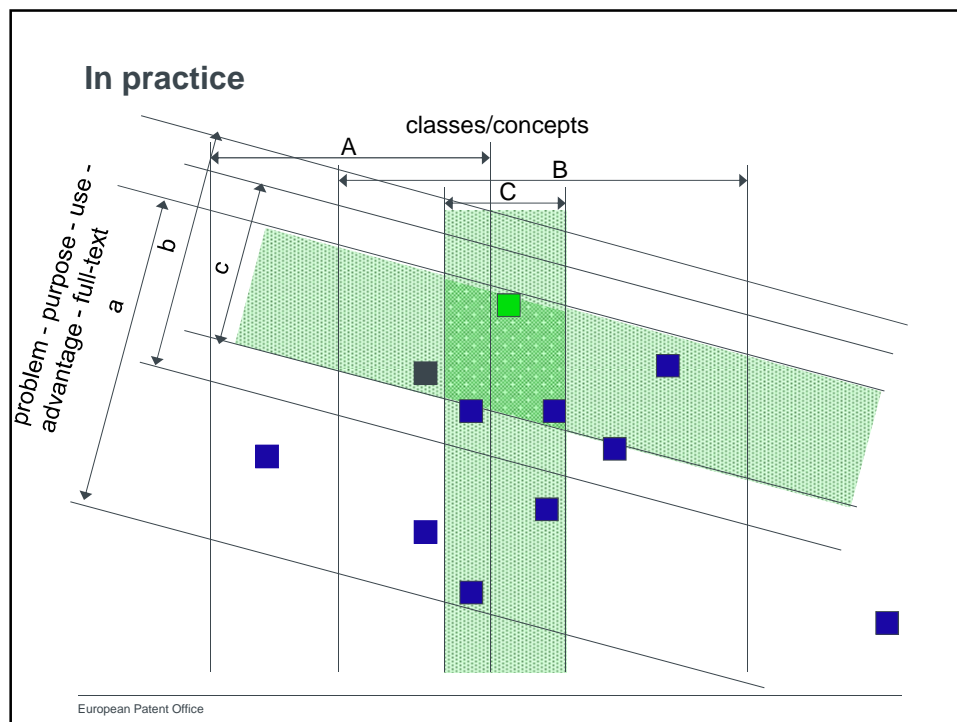
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In practice



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European Inventor Award

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The finalists
2013
2012
2011
2010
2009
2008
2007
2006
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Jury
Nominations for 2014
Past events
Press

An ambitious vision, a global cure

Left uncorrected, poor vision can stunt reading skills and hinder prospects - a prevalent problem in the developing world where there is a lack of eyecare professionals. Joshua Silver's simple, yet innovative invention of self-adjustable eyeglasses offers hope for millions.

Inventor: Joshua Silver, United Kingdom

Invention: Self-adjustable eyeglasses

Sector: Optics

Company: n/a

→ [View selected patent](#) (EP0830620)

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Joshua Silver

Video portrait

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40

Name searches

§ Hint: Use phrase search for natural persons, i.e.
 "<LastName> <FirstName>", to avoid hits with first/last names
 belonging to different persons

10 results found in the Worldwide database for:
SCHULER as the inventor AND **B60W30** as the Cooperative Patent Classification

Sort by Sort order

☐ 1. METHOD FOR CONTROLLING A DECELERATION ARRANGEMENT OF A MOTOR VEHICLE

★	Inventor: SCHULER RALF [DE] KOBIELA FANNY [DE] (+1)	Applicant: BOSCH GMBH ROBERT [DE]	CPC: B60T11/10 B60T2220/02 B60T2270/60 (+8)	IPC: B60T7/12	Publication info: US2014350814 (A1) 2014-11-27	Priority date: 2011-06-29
---	---	---	--	-------------------------	---	-------------------------------------

☐ 2. Method for operating driver assistance device for motor vehicle, involves detecting distance of adjacent vehicles to motor vehicle, and displaying distance or warning by display device when distance falls below predetermined distance

★	Inventor: KREBS CARSTEN [DE] SCHULER CHRISTOPH [DE]	Applicant: DAIMLER AG [DE]	CPC: B60W2050/143 B60W30/10 B60W50/14 (+3)	IPC: B60R16/02 B60W30/08 G08G1/16	Publication info: DE102013016721 (A1) 2014-03-20	Priority date: 2013-10-09
---	--	--------------------------------------	---	---	---	-------------------------------------

☐ 3. METHOD FOR OPERATING A VEHICLE AND DRIVER ASSISTANCE DEVICE

★	Inventor: SCHULER THOMAS [DE]	Applicant: SCHULER THOMAS [DE] VALEO SCHALTER & SENSOREN GMBH [DE]	CPC: B60L11/005 B60L11/1861 B60L11/1868 (+18)	IPC: B60L7/18 B60T7/22 B60W30/16 (+1)	Publication info: US2014046567 (A1) 2014-02-13	Priority date: 2010-11-30
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41

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42

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43

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44

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EP0830620 - AN OPTICAL APPARATUS AND METHOD [Right-click to bookmark this link]

Status No opposition filed within time limit
Database last updated on: 12.11.2013

Most recent event 1 04.01.2008 Lapse of the patent in a contracting state published on 06.02.2008 [2008/06]

Applicant(s) For all designated states
Silver, Joshua David
19 Cunnor Rise Road
Oxford, OX2 9ND / GB
[1998/13]

Inventor(s) 1 / see applicant
...
[1998/13]

Representative(s) Cockburn, Julian
Dennis St Bride's House 10 Salisbury Square London
EC4Y 5JD / GB
[NP]

Application number, filing date 96920011.3 01.06.1996
[1998/13]

Priority number, date WO19960801304
GB19950011001 01.06.1995 Original published format: GB 9511001
[1998/13]

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About this file

Legal status

Federated register

Event history

Citations

Patent family

All documents

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→ What does "legal status" mean?

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Designated contracting states AT BE CH DE ES FR GB IE IT LU MC NL PT SE

Examination procedure 02.04.2003

Entry into regional phase 22.12.1997

Patents and utility models Trade marks Designs Indications of geographical origin Service **IPRM register**

You are here: > Home > Patents and utility models > Details

DE file number : 696 31 477.0
EP file number: 96 92 0911.3
WO file number: PCT/GB96/01304
EP publication number: 830620
WO publication number: 1996038744
Type of IP right: Patent
Status: pending / in force
Status on: November 13, 2013

Master data Close details

INID	Criterion	Field	Contents
	Type of IP right	SART	Patent
	Status	ST	Pending / in force
21	DE file number	DAKZ	696 31 477.0
96	EP file number	EAKZ	96 92 0911.3
96	WO file number	WAKZ	PCT/GB96/01304
97	EP publication number	EPN	830620
87	WO publication number	WPN	1996038744
54	Designation/title	T1	OPTISCHES VERFAHREN UND VORRICHTUNG
51	IPC main class	ICH (ICFV)	G02B 3/12 (2006.01)
51	IPC secondary class(es)	ICB (ICBV)	G02B 3/14 (2006.01) G02C 7/08 (2006.01) G02B 7/18 (2006.01)
22	DE application date	DAT	Jun 1, 1996
96	EP application date	EAT	Jun 1, 1996
86	WO application date	WAT	Jun 1, 1996
43	Date of first publication	OT	Apr 30, 1998
71/73	Date of publication of grant	PET	Feb 4, 2004
72/73	Applicant/owner	DWN	Silver, Joshua David, Oxford, GB
72	Inventor	IN	Silver, Joshua David, Oxford, GB Applicant is inventor

EP0830620

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Legal status

Federated register

Citations

Patent family

All documents

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→ Who is it for?

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AN OPTICAL APPARATUS AND METHOD

Application No.	Publication No.	Applicant	IPC
EP96920911	EP0830620	Silver, Joshua David	G02B3/12 G02B3/14 G02C7/08 (+1)

Only designated contracting states providing the Federated Register Service are listed below.

Status	Application No.	Publication No.	Proprietor	Invalidation date	Not in force since	Renewal fees last paid	Record last updated
AI	Patent not validated	EP96920911	EP830620	SILVER, JOSHUA DAVID	13.07.2004	04.02.2004	---
CH	Patent not in force	EP96920911	EP0830620	Silver, Joshua David	---	04.02.2004	30.06.2006
EI	Patent not validated	---	0830620	Silver, Joshua David	---	04.02.2004	23.12.2015
IE	Patent lapsed	EP96920911	EP0830620	Silver, Joshua David	18.02.2005	18.02.2005	18.02.2005
LU	Patent lapsed	EP96920911	EP0830620	Silver Joshua David	01.06.2004	01.06.2004	---

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47

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Help

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Publication number

EP1883031

Application number

EP20070010825

Priority number

US20030423700

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Filing date

20070919

Publication date

20070919

Priority date

20070919

Date of grant

20070919

Enter the names of one or more persons, or organisations

Applicant(s)

IBM

Inventor(s)

Siemens

Representative

vande gucht

Opponent

batf

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International Patent Classification (IPC)

H02M7/537 H03K17/687

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48

24

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Legal status

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Event history

Citations

Patent family

All documents

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All documents(48)

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08.12.2004

Communication regarding the expiry of opposition period

30.12.2003

Decision to grant a European patent

10.10.2003

General enquiry

04.08.2003

Notice drawing attention to the payment of the renewal fee and additional fee

15.04.2003

Decision to allow further processing

03.04.2003

Filing of the translations of the claims

03.04.2003

Translation of the claims

03.04.2003

Translation of the claims

02.04.2003

Filing of the translations of the claims

23.01.2003

Application deemed to be withdrawn (translations of claims: payment missing)

05.09.2002

Decision to allow further processing

05.09.2002

Invitation to pay the fees for intended grant

20.08.2002

Approval to announcement of intention to grant a European patent

19.08.2002

Approval to announcement of intention to grant a European patent

02.08.2002

Notice drawing attention to the payment of the renewal fee and additional fee

18.06.2002

Acknowledgement of a document

10.06.2002

Decision to refuse (Formalities Officer)

07.03.2002

Grant of extension of time limit

04.03.2002

Request for extension of time limit to announcement of intention to grant

28.02.2002

Request for extension of time limit to announcement of intention to grant

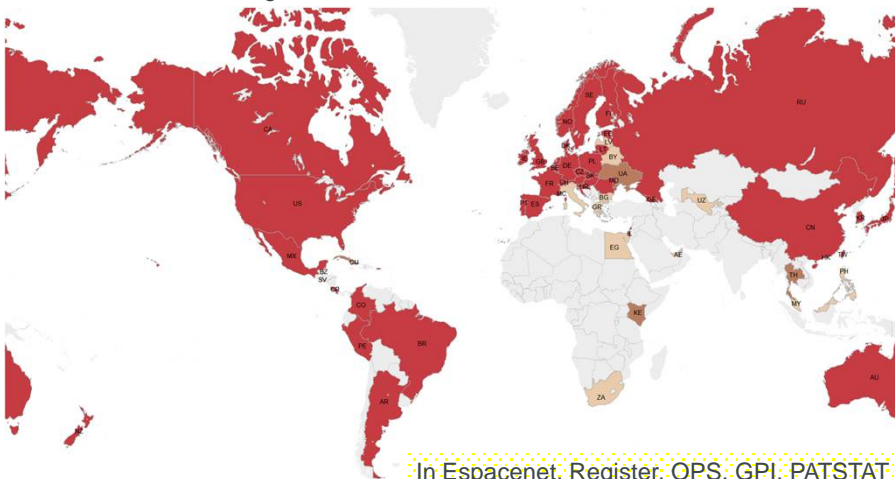
23.10.2001

Bibliographic data of the European patent application


type	Procedure	Number of pages
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	Search / examination	1
	Search / examination	3
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	Search / examination	10
	Search / examination	1
	Search / examination	1
	Search / examination	3
	Search / examination	1
	Search / examination	2
	Search / examination	1
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





INPADOC legal status: EP0830620 (A1) — 1998-03-25

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	20040704
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	20140627
	19
Event date :	2014/08/29
Event code :	PGFP IT
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PAYMENT YEAR :	19

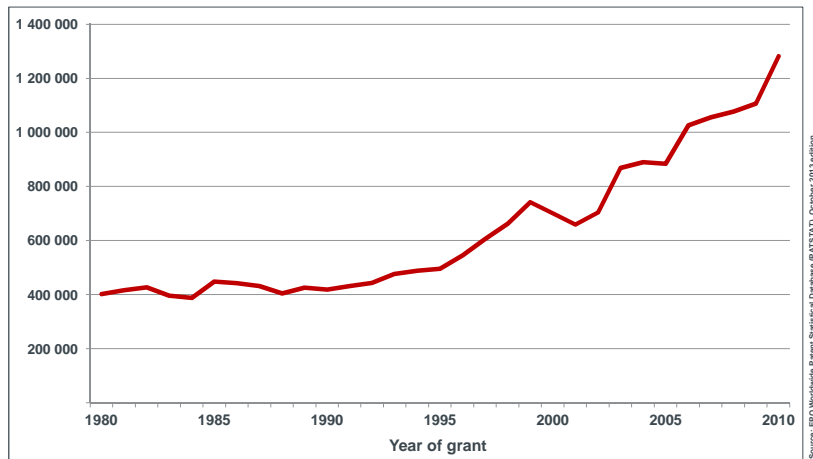
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2007	Lucent Technologies Inc.	Microsoft Corp.	MP3 technology	1 538
2012	Carnegie Mellon University	Marvell Technology Group	Noise reduction on circuits for disk drives	1 169
2012	Apple Inc.	Samsung Electronics Co.	Smartphone software	1 049
2012	Monsanto Company	E.I. Dupont De Nemours and Company	Genetically modified soybean seeds	1 000
2010	Mirror Worlds LLC	Apple Inc.	Operating system	626
2005	Cordis Corp.	Medtronic Vascular, Inc.	Vascular stents	595
2004	Eolas Technologies Inc.	Microsoft Corp.	Internet browser	521
2011	Bruce N. Saffran M.D.	Johnson & Johnson	Drug-eluting stents	482
2008	Bruce N. Saffran M.D.	Boston Scientific Corp.	Drug-eluting stents	432

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1. Method and apparatus for a variable power ophthalmic lens					
★ Inventor: PUGH RANDALL B [US] OTTIS DANIEL B [US] (+5)	Applicant: JOHNSON & JOHNSON VISION CARE [US]	CPC: G02B26/005 G02B3/14 G02C7/041 (+2)	IPC: G02B26/00 G02B3/14 G02C7/04 (+1)	Publication info: EP 2645137 (A1) 2013-10-02	Priority date: 2012-03-30
2. FLUID-FILLED LENSES AND ACTUATION SYSTEMS THEREOF					
★ Inventor: EGAN WILLIAM [US] HAROUD KARIM [CH] (+4)	Applicant: ADLENIS BEACON INC [US]	CPC: G02B3/14 G02C7/085 (+2)	IPC: G02C5/22 G02B1/06 (+1)	Publication info: EP 2638417 (A2) 2013-09-18	Priority date: 2010-11-10
3. PERIMETER PIEZO RESERVOIR IN A LENS					
★ Inventor: HAROUD KARIM [CH] PETERSON MATTHEW WALLACE [US] (+3)	Applicant: ADLENIS BEACON INC [US]	CPC: G02B3/14 G02C5/143 G02C7/063 (+1)	IPC: G02B1/06 G02B3/14 G02C7/04 (+1)	Publication info: EP 2628033 (A1) 2013-08-21	Priority date: 2010-10-11
4. LIQUID MENISCUS LENS INCLUDING VARIABLE VOLTAGE ZONES					
★ Inventor: PUGH RANDALL B [US] OTTIS DANIEL B [US] (+4)	Applicant: JOHNSON & JOHNSON VISION CARE [US]	CPC: A61F2/1635 G02B1/043 G02B26/004 (+2)	IPC: G02B26/02 G02B3/14 G02C7/04 (+1)	Publication info: EP 2622391 (A1) 2013-08-07	Priority date: 2010-09-29
5. LIQUID MENISCUS LENS INCLUDING MENISCUS WALL WITH MICROCHANNELS					
★ Inventor: PUGH RANDALL B [US] OTTIS DANIEL B [US] (+4)	Applicant: JOHNSON & JOHNSON VISION CARE [US]	CPC: A61F2/1635 G02B1/04 G02B1/043 (+3)	IPC: G02B3/14 G02B1/04 G02B1/043 (+3)	Publication info: EP 2622390 (A1) 2013-08-07	Priority date: 2010-09-29

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Family list: EP2645137 (A1) — 2013-10-02

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9 application(s) for EP2645137 (A1)

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1. Method and apparatus for a variable power ophthalmic lens			
★ Publication info:	EP2645137 (A1)	Europe	2013-10-02
2. METHOD AND APPARATUS FOR A VARIABLE POWER OPHTHALMIC LENS			
★ Publication info:	AU2013202168 (A1)	Australia	2013-10-17
3. METHOD AND APPARATUS FOR A VARIABLE POWER OPHTHALMIC LENS			
★ Publication info:	CA2810754 (A1)	Canada	2013-09-30
4. Method and apparatus for a variable power ophthalmic lens			
★ Publication info:	CN103365027 (A)	China	2013-10-23
5. METHOD AND APPARATUS FOR VARIABLE POWER OPHTHALMIC LENS			
★ Publication info:	JP2013214069 (A)	Japan	2013-10-17
6. METHOD AND APPARATUS FOR A VARIABLE POWER OPHTHALMIC LENS			
★ Publication info:	KR20130111467 (A)	Korea	2013-10-10
7. METHOD AND APPARATUS FOR A VARIABLE POWER OPHTHALMIC LENS			
★ Publication info:	SG193765 (A1)	Singapore	2013-10-30
8. Method and apparatus for a variable power ophthalmic lens			
★ Publication info:	TW201403138 (A)	Taiwan	2014-01-16
9. METHOD AND APPARATUS FOR A VARIABLE POWER OPHTHALMIC LENS			
★ Publication info:	US2013258277 (A1)	USA	2013-10-03

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59

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Classification search						
Sort by		Priority date	Sort order	Descending	Sort	
1. VARIABLE POWER ENDOSCOPE BASED ON LIQUID LENS TECHNOLOGY						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
GUPTA AMITAVA [US] SCHIELL URBAN (+5)	ADLENS BEACON INC [US]	A61B1/00096 A61B1/0019 A61B1/002 (+4)	A61B1/005	MX2013006098 (A) 2013-07-15	2010-12-01	
2. VARIABLE BINOCULAR LOUPE UTILIZING FLUID FILLED LENS TECHNOLOGY						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
SCHIELL URBAN [CH] EGAN WILLIAM (+1)	ADLENS BEACON INC [US]	G02B3/004	G02B3/14	MX2013006098 (A) 2013-07-15	2010-12-01	
3. FLUID-FILLED LENSES AND ACTUATION SYSTEMS THEREOF						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
SCHIELL URBAN [CH] HAROUD KARIM (+4)	ADLENS BEACON INC [US]	G02B3/14 G02C7/085	G02C5/22	MX2013005191 (A) 2013-06-28	2010-11-10	
4. Spectacles frame						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
NBAUER LISA [US] CHAUBERT EVELYNE [US] (+1)	ADLENS BEACON INC [US]			USD655009 (S1) 2012-08-07	2010-10-14	
5. NON POWERED CONCEPTS FOR A WIRE FRAME OF FLUID FILLED LENSES						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
SCHIELL URBAN [CH] HAROUD KARIM (+3)	ADLENS BEACON INC [US]	G02B3/14 G02C5/143 G02C7/083 (+1)	G02C5/14	MX2013004022 (A) 2013-07-05	2010-10-11	
6. FLUID FILLED ADJUSTABLE CONTACT LENSES						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
EGAN WILLIAM [US] NBAUER LISA [US]	ADLENS BEACON INC [US]	G02C7/04 G02C7/085	G02C7/08	EP2625044 (A1) 2013-08-21	2010-10-11	
7. FLUID-FILLED LENSES AND THEIR OPHTHALMIC APPLICATIONS						
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:	
GUPTA AMITAVA [US] SCHIELL URBAN (+9)	ADLENS BEACON INC [US]	G02B3/14	G02B3/14	MX2013001712 (A) 2013-03-07	2010-08-12	

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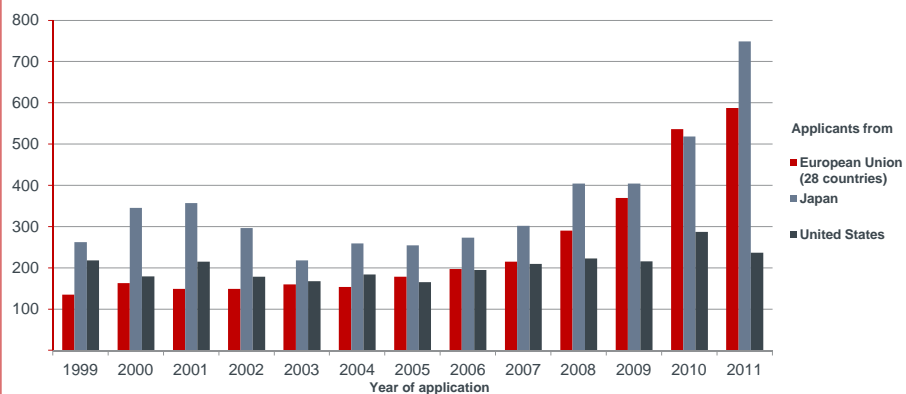
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Statistics/trends

E.g. energy storage:

Energy storage: Patent applications to the European Patent Office



Source: stats.oecd.org/

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European patent applications (Annual report 2015)

Top technical fields

Medical technology was still the field where the most applications were filed and was also one of the fastest growing areas. Other fields with strong growth were Engines, pumps and turbines, Pharmaceuticals, Measurement and Computer technology. Only Transport and Electrical machinery and energy showed a slowdown in the number of applications.



Analysis based on European patent applications filed with the EPO (Direct European applications and International (PCT) applications entering the European phase).

Based on the WIPO IPC-Technology concordance. Methodology available at:
http://www.wipo.int/ipstats/en/statistics/patents/ipdf/wipo_ipc_technology.pdf

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Technical information at www.epo.org



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- § Remember that patent information is an important source of **technical, legal** and **business-related information**.
- § Use **Espacenet** and other free sources to **identify existing technologies**, gaps in technology, **key players**, potential **infringement** and **trends**.

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