The webinar will begin in:

0:30

Welcome

Questions/concerns

patentscope@wipo.int

Agenda

- Definitions
- IPC statistics
- IPC searches
- CPC searches
- More IPC-related tools

- Q&A session

Definitions

■ IPC = International Patent Classification

The International Patent Classification (IPC), established by the Strasbourg Agreement 1971, provides for a hierarchical system of language independent symbols for the classification of patents and utility models according to the different areas of technology to which they pertain. A new version of the IPC enters into force each year on January 1.

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Definitions

■ CPC = Cooperative Patent Classification

The Cooperative Patent Classification was initiated as a joint partnership between the USPTO and the EPO where the Offices have agreed to harmonize their existing classification systems (ECLA and USPC, respectively) and migrate towards a common classification scheme.

The migration to CPC was developed based in large part on the existing European Classification System (ECLA) modified to ensure compliance with the International Patent Classification system (IPC) standards administered by the World Intellectual Property Organization (WIPO).

https://www.cooperativepatentclassification.org/about

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IPC vs CPC

	IPC	**CPC**
Nb symbols	~80K	over 250 K
Revision	yearly	quarterly
Languages	EN + FR+ translations	English
PATENTSCOPE	Yes	Yes

IPC Statistics

IPC STATISTICS ▾

Columns

	◁ ◁◁ 1 2 3 4 5 6 7 8 9 10 ▷▷ ▷								
Chart	IPC Code ⇕		15.07.2021 ⇕	22.07.2021 ⇕	29.07.2021 ⇕	05.08.2021 ⇕	12.08.2021 ⇕	Σ Last 5 gazettes ⇕	Δ Last gazette ⇕	Breakout ⇕
☐	H04W 72/04	⊙	54	72	74	54	84	338	+30	+20.50
☐	A61P 35/00	⊙	75	86	77	68	63	369	-5	-13.50
☐	G06N 3/08	⊙	27	24	30	32	43	156	+11	+14.75
☐	H04L 5/00	⊙	30	43	46	49	40	208	-9	-2.00
☐	A61B 5/00	⊙	34	39	40	47	38	198	-9	-2.00
☐	G06K 9/00	⊙	48	44	63	38	35	228	-3	-13.25
☐	H04W 72/12	⊙	20	26	23	29	33	131	+4	+8.50
☐	G06N 20/00	⊙	39	29	24	25	32	149	+7	+2.75
☐	G06N 3/04	⊙	23	18	24	27	31	123	+4	+8.00
☐	A61K 9/00	⊙	22	29	13	32	27	123	-5	+3.00

Clear Selection

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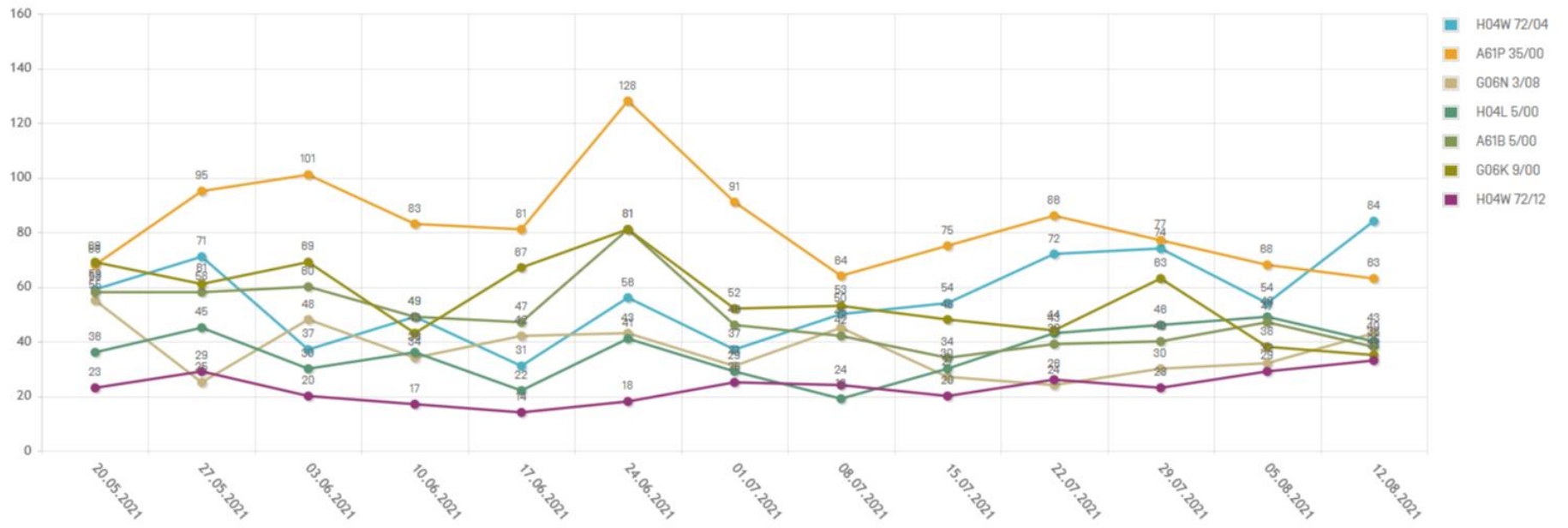
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Sequence listing

▾ **National Phase Entries**

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▾ **Authority File**

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Gazette
27/2020 (02.07.2020)

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Results 1 - 200 of 7619 |◄ ◄◄ **1** 2 3 4 5 6 7 8 9 10 ►► ►|

Title	Kind	Appl.No	IPC	Applicant
1. WO/2020/140129 ALGORITHM FOR SCORING PARTIAL MATCHES BETWEEN WORDS	Initial Publication with ISR[A1]	US2019/069012	G10L 15/00	PAYPAL, INC.
2. WO/2020/139463 CLOSURE SYSTEM FOR AN ARTICLE OF FOOTWEAR	Initial Publication with ISR[A1]	US2019/060511	A43B 11/00	NIKE INNOVATE C.V.
3. WO/2020/133112 METHOD FOR AUTOMATICALLY SWITCHING BLUETOOTH AUDIO ENCODING METHOD AND ELECTRONIC APPARATUS	Initial Publication with ISR[A1]	CN2018/124497	H04M 1/725	HUAWEI TECHNOLOGIES CO., LTD.
4. WO/2020/133114 HARQ PROCESS DETERMINATION METHOD, NETWORK DEVICE AND TERMINAL	Initial Publication with ISR[A1]	CN2018/124502	H04W 72/04	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
5. WO/2020/133115 CODING PREDICTION METHOD AND APPARATUS, AND COMPUTER STORAGE MEDIUM	Initial Publication with ISR[A1]	CN2018/124504	H04N 19/159	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.

IPC searches in PATENTSCOPE

Advantages of the IPC

- Language independent
- Terminology / "jargon" independent
- Standardized application to documents
- Available for (old) patent documents
- Concept search

Disadvantages of the IPC

■ Not available for all areas of technology

■ Not specific enough for particular searches

■ Not available for all documents

■ Complex

Search strategies using IPC and CPC

- A top-down approach in user's preferred language

- Scope refined based on identified IPC symbols & using CPC subdivisions of the IPC

- Perform search in database with selected patent classification symbols

IC / ICI / ICN

- IC = International Classification

- ICI = International Classification Inventive

- ICN = International Classification Non-inventive

IPC search in PATENTSCOPE

Searching and Grouping now by complete IPC codes:

D06F 1/06 will include by default

D06F **1/08**

      1/10

      1/16

IC_EX   ICI_EX   ICN_EX = no subgroup

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PCT publication 32/2021 [12.08.2021] is now available here. The next PCT publication 33/2021 is scheduled for 19.08.2021. More

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PCT publication 32/2021 [12.08.2021] is now available here. The next PCT publication 33/2021 is scheduled for 19.08.2021. More

Check out the new PATENTSCOPE features: CPC, NPL, Families ...

Search Facility to Support COVID-19 Innovation Efforts

Field		Search terms...
Int. Classification[IPC]	▼	G06K 9/00

Offices
All

IC:(G06K9/00)

508,803 results   Offices

Sort: Pub Date Desc ▼

	A	HUMAN NECESSITIES
	61	MEDICAL OR VETERINARY SCIENCE; HYGIENE
	B	DIAGNOSIS; SURGERY; IDENTIFICATION
	3	Apparatus for testing the eyes; Instruments for examining the eyes
	10	Objective types, i.e. instruments for examining the eyes independent of the patients perceptions or reactions
	14	Arrangements specially adapted for eye photography

Download ▼   Machine translation ▼

1. **779116** EYE POSE   NZ - 13.08.2021

Int.Class A61B 3/14 ⑦

NO IMAGE AVAILABLE

2. **779115** EYE POSE ESTIMATION   NZ - 13.08.2021

Int.Class A61B 3/14 ⑦   Appl.No 779115   Applicant MAGIC LEAP, INC.   Inventor KAEHLER, Adrian

NO IMAGE AVAILABLE

3. **779094** EYELID SHAPE ESTIMATION   NZ - 13.08.2021

Int.Class A61B 3/10 ⑦   Appl.No 779094   Applicant Magic Leap, Inc.   Inventor KAEHLER, Adrian

NO IMAGE AVAILABLE

National Biblio. Data   Patent Family   Documents

PermaLink   Machine translation ▼

Office
New Zealand

Application Number
779116

Application Date
16.08.2016

Publication Number
779116

Publication Date
13.08.2021

Publication Kind
A

IPC

A61B 3/14	G06K 9/00	A61B 3/11
A61B 3/113	G06K 9/46	G02B 27/01

View more classifications

Applicants
MAGIC LEAP, INC.

Inventors
KAEHLER, Adrian

Agents
DAVIES COLLISON CAVE PTY LTD

Priority Data
62/208,519 21.08.2015 US

Title
[EN] Eye pose estimation

Abstract

Also published as
CA2996039   AU2016310451   KR1020180044331   CN108135469   EP3337385   WO/2017/034860   JP2018523879   NZ751757   CN112836664   NZ779115   IL257485   NZ740299   IN201847009021
AU2021206778

6. 20210248191 REFERENCE-BASED DOCUMENT RANKING SYSTEM   US - 12.08.2021

Int.Class G06F 16/93 ⑦   Appl.No 17032461   Applicant Copyright Clearance Center, Inc.   Inventor Haralambos Marmanis

A system for ranking electronic documents based on reference frequency includes a central controller in electronic communication with a document database. The central controller maintains a graphical model of the electronic documents that identifies all references between documents. A weight is automatically calculated and assigned to each reference within the graphical model in order to increase the significance of document references which are based on subject matter relevance and decrease the significance of document references which are based on interpersonal relationships or other meritless factors. Using the weighted graphical model, the central controller is able to automatically identify document clusters having similar subject matter, create a probability matrix for each cluster based on the weighted graphical model, and apply a power iteration to each probability matrix to yield a reference-based ranking of the electronic documents within each cluster.
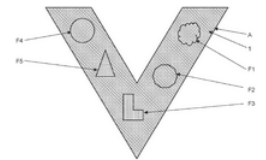

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7. 20210248369 METHOD FOR CHECKING THE AUTHENTICITY OF PRODUCTS AND PRINTED IMAGE   US - 12.08.2021

Int.Class G06K 9/00 ⑦   Appl.No 16973072   Applicant Industry 365 UG [Haftungsbeschränkt]   Inventor Jörg Kaufmann

A method for checking the authenticity of products, by checking an image [A] of a product. The proof of authenticity is not visible to the human eye and cannot be copied. This is characterized in that a code stored in a halftone image by manipulation of dots and/or a manipulated field bounded in the halftone image can be read by means of an optical device and compared with a retrievable value in at least one database. In at least one field [F1 to F5] a part of a serial number is determined which describes the structure of the serial number and a hash function used for transmitting the serial number to the database, and this is also characterized in that the serial number is subsequently assembled and encrypted with the corresponding hash function.


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8. 20210248729 SUPERPIXEL MERGING   US - 12.08.2021

Int.Class G06T 5/50 ⑦   Appl.No 17049374   Applicant SUPERANNOTATE AI, INC.   Inventor VAHAN PETROSYAN

Techniques are described for merging super pixels of an image The image may include two superpixe, for which a similarity value is calculated. The similarity value is determined based on the link and cut values of the superpixels, the similarity value representing pixel-based similarity of the superpixels. The link value is determined based on the similarity between color values of the pixels in the superpixels, while the cut value is determined based on the edge pixels of the superpixels. Based on the calculated similarity value, the system determines whether to merge the superpixels and if so, merges the superpixels thereby generating another superpixel.

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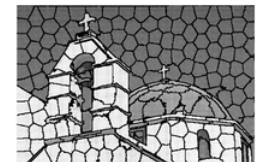
9. 20210249495 DISPLAY DEVICE   US - 12.08.2021

Int.Class H01L 27/32 ⑦   Appl.No 17092226F   Applicant Samsung Display Co., Ltd.   Inventor Sun Hwa LEE

National Biblio. Data | Description | Claims | Drawings | Patent Family | Documents

PermaLink   Machine translation ▼

Office

United States of America 📍

Application Number

16973072

Application Date

22.06.2019

Publication Number

20210248369

Publication Date

12.08.2021

Publication Kind

A1

IPC

G06K 9/00 | H04N 1/32 | G06K 15/02
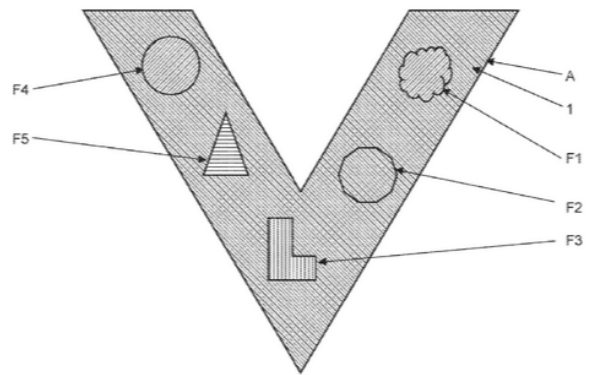
H04L 9/32

CPC

H04N 1/32251 | G06K 9/00577 | H04N 1/32352

G06K 15/1836 | H04L 2209/38 | G06K 15/1881

View more classifications

Applicants

Industry 365 UG [Haftungsbeschränkt]

Inventors

Jörg Kaufmann
Frank Theeg
Holger Zellmer

Title

[EN] Method for Checking the Authenticity of Products and Printed Image

Abstract

[EN]
A method for checking the authenticity of products, by checking an image [A] of a product. The proof of authenticity is not visible to the human eye and cannot be copied. This is characterized in that a code stored in a halftone image by manipulation of dots and/or a manipulated field bounded in the halftone image can be read by means of an optical device and compared with a retrievable value in at least one database. In at least one field [F1 to F5] a part of a serial number is determined which describes the structure of the serial number and a hash function used for transmitting the serial number to the database, and this is also characterized in that the serial number is subsequently assembled and encrypted with the corresponding hash function.

Also published as

DE102018115146 | WO/2020/001695 | WO/2020/001696 | CN112292716 | CN112313716 | EP3791367 | EP3791368 | US20210245542

IC:(G06K9/00)

08803 results Offices all Languages all Stemming true Single Family Member false Include NPL false

Sort: Pub Date Desc ▼   Per page: 100 ▼   View: All+Image ▼   ⟨ 1 / 5,089 ▼ ⟩   Download ▼   Machine translation ▼

1. **779116** EYE POSE ESTIMATION   NZ - 13.08.2021

Int.Class A61B 3/14 ⑦   Appl.No 779116   Applicant MAGIC LEAP, INC.   Inventor KAEHLER, Adrian

NO IMAGE AVAILABLE

2. **779115** EYE POSE ESTIMATION   NZ - 13.08.2021

Int.Class A61B 3/14 ⑦   Appl.No 779115   Applicant MAGIC LEAP, INC.   Inventor KAEHLER, Adrian

NO IMAGE AVAILABLE

3. **779094** EYELID SHAPE ESTIMATION   NZ - 13.08.2021

Int.Class A61B 3/10 ⑦   Appl.No 779094   Applicant Magic Leap, Inc.   Inventor KAEHLER, Adrian

NO IMAGE AVAILABLE

ANALYSIS

Close

Filters   Charts   Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Filing Dates		Kind code	
China	216,819	China	221,707	SAMSUNG ELECTRONICS CO LTD	7,335	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	1,015	G06K	508,801	g06k 9/6256	32,960	2007	9,448	A	231,029
United States of America	158,825	United States of America	163,042	CANON KABUSHIKI KAISHA	5,390	WANG WEI	800	G06T	110,605	g06n 3/0454	30,063	2008	10,191	B2	99,635
Japan	31,678	Japan	32,633			ZHANG WEI	790	G06F	105,376	g06n 3/08	23,524	2009	9,439	A1	58,157
PCT	25,867	PCT	25,867	INTERNATIONAL BUSINESS MACHINES CO	4,657	LIU WEI	772	H04N	69,031	g06k	21,659	2010	10,285	B	43,101
European Patent Office	23,110	European Patent Office	25,693			WANG LEI	670	G06N	63,570	g06k 9/6267	18,130	2011	11,630	B1	36,844
Republic of Korea	17,850	Republic of Korea	20,240	SONY CO	4,611	LIU YANG	627	G06Q	38,641	g06k 9/00288	14,341	2012	13,005	U	18,692
Germany	6,567	Germany	7,841	MICROSOFT CO	2,695	LAPSTUN PAUL	625	A61B	18,907	g06k 9/6215	13,402	2013	13,939	A4	5,353
Australia	5,177	Canada	5,731	NEC CO	2,637	SILVERBROOK KIA	606	H04L	15,004	g06k 2209/01	12,604	2014	16,688	C	3,663
Canada	4,257	Australia	5,250	PING AN TECH [SHENZHEN] CO LTD	2,422	LI WEI	605	G01N	11,797	g06k 9/00771	10,893	2015	22,284	A3	1,849
United Kingdom	2,978	India	3,350			ZHANG LEI	559	G07C	11,167	g06t 7/11	10,683	2016	30,585	A2	1,361
France	2,830	United Kingdom	3,247	MICROSOFT TECH LICENSING LLC	2,350	WANG JIAN	527	G08G	10,873	g06k 9/4604	10,329	2017	40,994	Y	1,314
India	2,251	France	2,830	TENCENT TECH [SHENZHEN] CO LTD	2,214	ZHANG LI	491	G08B	8,597	g06t 2207/20081	10,312	2018	53,930	C2	1,307
Russian Federation	2,083	Russian Federation	2,681			JIAO LICHENG	440	G10L	7,946	g06t 2207/10016	9,655	2019	69,268	T3	960
Spain	1,263	Spain	1,268	INTEL CO	2,175	LI YANG	428	G01S	7,925	g06k 9/00228	9,583	2020	69,580	A5	898
Russian Federation[USSR data]	1,103	Singapore	1,110	KABUSHIKI KAISHA TOSHIBA	2,096	WANG HAO	426	G02B	7,671	g06k 9/6268	9,528	2021	17,312	C1	843
				BOE TECH GROUP CO LTD	2,052										
				SIEMENS AG	2,047										
				FUJITSU LIMITED	2,017										

ANALYSIS

Close

Filters · Charts · Timeseries

Countries · Offices · Applicants · Inventors · IPC code · CPC code · Filing Dates · Kind code

IPC code	Count
G06K	508,801
G06T	~110,000
G06F	~105,000
H04N	~68,000
G06N	~62,000
G06Q	~38,000
A61B	~18,000
H04L	~14,000
G01N	~11,000
G07C	~10,000
G08G	~10,000
G08B	~8,000
G10L	~7,000
G01S	~6,000
G02B	~5,000
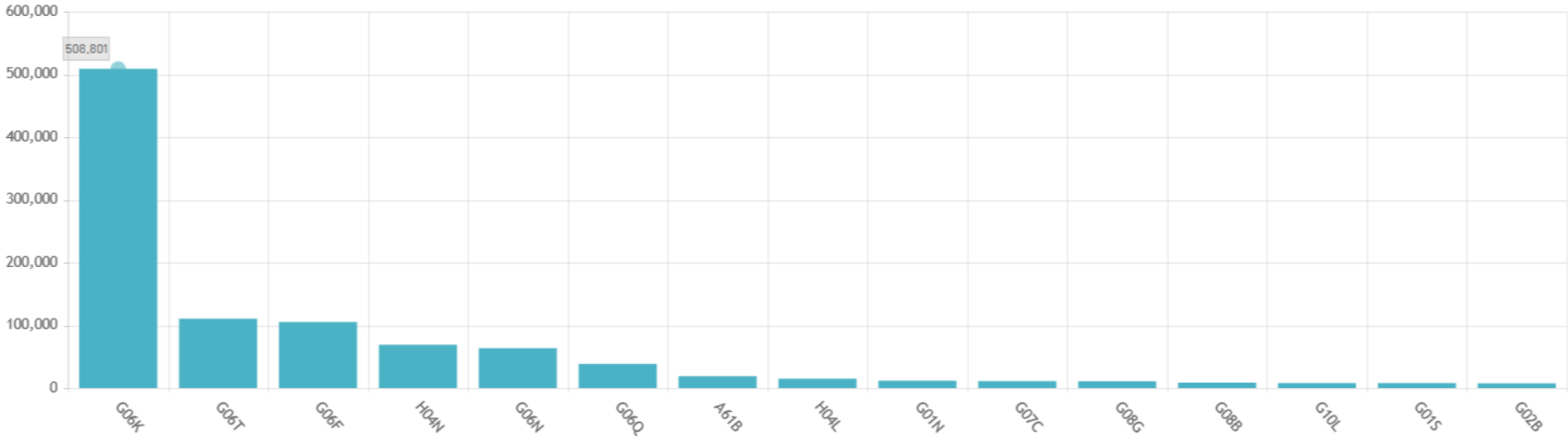
ANALYSIS

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Countries   Offices   Applicants   Inventors   IPC code   CPC code   Filing Dates   Kind code
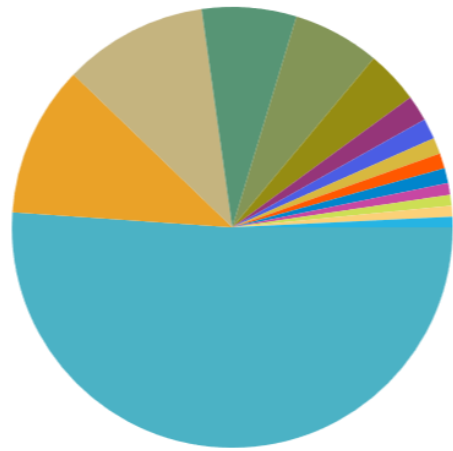
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- G06
- G06
- H04
- G06
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- A61E
- H04
- G01I
- G07(
- G08

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☑ Filing Dates
☑ Kind code

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Operator AND	▼	Field English Title	▼	Value
Operator AND	▼	Field International Class	▼	Is Empty: Yes
Operator AND	▼	Field Licensing availability	▼	☐
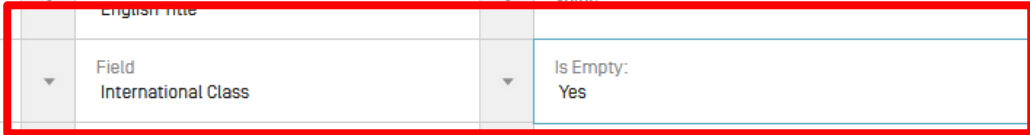
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Languages English	▼

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International Class N-Inventive

International Preliminary Examination

International Search Authority

International Search Report

Main International Class

Supplementary International Search

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A: HUMAN NECESSITIES

B: PERFORMING OPERATIONS; TRANSPORTING

C: CHEMISTRY; METALLURGY

D: TEXTILES; PAPER

E: FIXED CONSTRUCTIONS

F: MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

G: PHYSICS

H: ELECTRICITY

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ADVANCED SEARCH ▾

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D01: NATURAL OR MAN-MADE THREADS OR FIBRES; SPINNING

D02: YARNS; MECHANICAL FINISHING OF YARNS OR ROPES; WARPING OR BEAMING

D03: WEAVING

D04: BRAIDING; LACE-MAKING; KNITTING; TRIMMINGS; NON-WOVEN FABRICS

D05: SEWING; EMBROIDERING; TUFTING

D06: TREATMENT OF TEXTILES OR THE LIKE; LAUNDERING; FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D07: ROPES; CABLES OTHER THAN ELECTRIC

D21: PAPER-MAKING; PRODUCTION OF CELLULOSE

D99: SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION

IC:D05

D05: SEWING; EMBROIDERING; TUFTING

D05B: SEWING

D05C: EMBROIDERING; TUFTING

*

Combined search

- **Retrieve results** that are specific "**G06K 9/00**" and date range: first 6 months of 2020

DP:[01.01.2020 TO 30.06.2020] AND IC_EX:(G06K9/00)

1. **110738162** FINGERPRINT SENSING DEVICE AND SENSING METHOD THEREOF

CN - 31.01.2020

Int.Class G08K 9/00 ⓘ   Appl.No 201910967948.7   Applicant EGIS TECHNOLOGY INC.   Inventor LIN GONGYI

The invention discloses a fingerprint sensing device and a sensing method thereof. The fingerprint sensing device is used for sensing fingerprint information of a user. A sensing array includes a plurality of sensing units disposed on a plurality of column lines and a plurality of row lines. Each of the plurality of sensing units includes a sensing electrode. An insulating surface is disposed over the sensing array. The plurality of transmission electrodes are used for transmitting a modulation signal. When the user places a finger on the insulating surface and the modulation signal transmitted by the transmission electrode is coupled to the finger of the user, a reading module obtains a sensing voltage corresponding to the modulation signal coupled to the finger of the user through the sensing electrode of the sensing unit. A processor is used for obtaining fingerprint information of the finger according to the sensing voltage. Each of the plurality of transmission electrodesis arranged in parallel between the plurality of sensing units of two adjacent column lines or two adjacent row lines, and is not overlapped with the plurality of sensing units.

2. 一种人脸识别装置

CN - 01.05.2020

Int.Class G08K 9/00 ⓘ   Appl.No 201921715915.5   Applicant 苏州展亚信息技术有限公司   Inventor 陈汪锋

本实用新型公开了一种人脸识别装置，包括提供电路安装空间的机柜，所述机柜的前表面顶部位置开设有凹槽，且凹槽的前壁顶部一侧位置固定安装有感应灯，所述凹槽的内壁顶部位置固定安装有读卡板，且凹槽的前壁中间位置设置有显示器壳体，所述机柜的顶部和底部位置均焊接有限位板，所述机柜的上表面设置有第二安装座，且机柜的下表面设置有第一安装座，所述第一安装座和第二安装座的前表面均包覆有橡胶块，且橡胶块的横截面形状为凹形。本实用新型所述的一种人脸识别装置，可进行旋转从而方便对后壁接线区的维修和使用且使用的灵活性好，同时，提高了散热性能和增强了防撞效果，适用不同工作状况，带来更好的使用前景。

3. BIOMETRIC IMAGING DEVICE

WO - 26.03.2020

Int.Class G08K 9/00 ⓘ   Appl.No PCT/CN2018/105978   Applicant FINGERPRINT CARDS AB   Inventor LIU, Jun

A biometric imaging device [100] configured to be arranged under an at least partially transparent display panel [102] and configured to capture an image of an object located on an opposite side of the transparent display panel [102]. The biometric imaging device [100] comprises an image sensor [108] comprising a photodetector pixel array [109]; a transparent substrate [112] covering the photodetector pixel array [109]; a first set of microlenses [118] configured to redirect light through the transparent substrate [112] and onto a subarray [120] of pixels in the photodetector pixel array [109]. The lenses in the first set of microlenses [118] have a first focal length. A second set of microlenses [119] configured to redirect light through the transparent substrate [112] and onto a subarray [121] of pixels in the photodetector pixel array [109]. The lenses in the second set of microlenses [119] have a second focal length which is different from the first focal length.

4. AUTHENTICATION METHOD AND APPARATUS, AND ELECTRONIC DEVICE, COMPUTER PROGRAM, AND STORAGE MEDIUM

SG - 30.01.2020

Int.Class G08K 9/00 ⓘ   Appl.No 11201914055V   Applicant SHENZHEN SENSETIME TECHNOLOGY CO., LTD.   Inventor ZHENG, Guirong

ABSTRACT An authentication method and apparatus, and an electronic device, a computer 5 program, and a storage medium. The method comprises: acquiring a first image of an identification card, wherein the first image includes a first human face image [102]; acquiring a second image including the human face of a person to be verified [104]; carrying out human face comparison on the first image and the second image to obtain a first comparison result [108]; and obtaining an authentication result according to the 10 first comparison result [108]. [Figure 1]

5. DAMAGE IDENTIFICATION RESULT OPTIMIZATION METHOD AND DEVICE

WO - 02.04.2020

Int.Class G08K 9/00 ⓘ   Appl.No PCT/CN2019/098545   Applicant ALIBABA GROUP HOLDING LIMITED   Inventor XU, Juan

An embodiment of the description provides a damage identification result optimization method. In one aspect, the method comprises a method for optimizing a damage identification result of a single image according to data resulting from interaction with a user, and specifically comprises: determining a preliminary damage identification result of a single image on the basis of a CNN algorithm, and displaying the same to a user; receiving a modification made by the user to the preliminary damage identification result; and re-outputting a damage identification result including the modification and by means of an effect of an LSTM and an Attention mechanism, and displaying the same to the user again until the user is satisfied. In another aspect, the method further comprises a method for optimizing a damage identification result of a current image on the basis of damage identification results of other images, and specifically comprises: determining a preliminary damage identification result of a current image on the basis of a CNN algorithm, and optimizing the preliminary damage identification result of the current image with reference to damage identification results of other images and by means of an LSTM and an Attention mechanism.

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China	619,467	China	696,485	NOVARTIS AG	33,557	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	5,990	A61K	3,794,900	a61p 43/00	435,718	2007	130,792	A	1,576,909
United States of America	536,887	United States of America	641,174	ASTRAZENECA AB	20,143	MAO, YUMIN	1,560	A61P	1,751,499	a61p 35/00	388,950	2008	130,000	A1	619,722
Japan	410,785	Japan	429,324	OREAL	18,332	XIE, YI	1,560	C07D	826,984	a61k	271,849	2009	120,152	B2	371,358
PCT	314,831	European Patent Office	332,983	F HOFFMANN LA ROCHE AG	17,476	WANG WEI	1,297	C07K	513,226	a61p 29/00	261,341	2010	118,447	B1	328,334
European Patent Office	310,341	PCT	314,831	MERCK AND CO INC	15,894	LI LI	1,049	C12N	436,179	a61p 25/00	220,314	2011	117,417	B	271,914
Australia	205,926	Canada	240,504	PFIZER INC	15,791	LI WEI	1,010	A61Q	349,293	a61p	193,244	2012	119,718	T3	115,686
Canada	185,026	Australia	206,349	L'OREAL	14,986	WANG LEI	997	C07C	212,387	a61k 45/06	189,390	2013	129,844	3	100,000
Republic of Korea	144,361	Republic of Korea	202,324	ELI LILLY AND COMPANY	14,957	GODDARD AUDREY	990	G01N	180,349	a61p 9/00	179,274	2014	143,839	NPL	60,910
Spain	119,313	Spain	119,479	GENENTECH INC	14,820	YANG MENGJUN	988	A23L	133,019	a61k 38/00	177,190	2015	150,655	A4	48,930
Germany	83,360	Germany	100,876	JANSSEN PHARMACEUTICA NV	14,130	LIU WEI	965	C12P	124,120	a61p 9/10	176,018	2016	158,098	A2	37,727
New Zealand	63,503	Russian Federation	87,375	THE PROCTER AND GAMBLE COMPANY	13,899	LI JING	952	C12Q	118,102	a61p 25/28	159,031	2017	154,461	T2	33,824
Russian Federation	61,629	New Zealand	84,895	BAYER AG	13,548	WANG YAN	950	C07H	115,703	a61p 31/04	149,142	2018	139,440	A5	33,313
Non-Patent Literature	60,910	Mexico	83,189	MERCK PATENT GMBH	12,240	LAGRANGE ALAIN	926	A01N	94,047	a61p 3/10	144,507	2019	121,442	A3	32,732
Denmark	55,640	India	81,399			ZHANG YAN	896	A61L	69,245	a61p 17/00	137,241	2020	89,739	C2	32,482
Mexico	52,574	Denmark	55,679			LI JUN	891	C07F	64,852	a61p 11/00	133,700	2021	20,976	C1	26,081

NPL Biblio. Data   Description

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Publisher
nature

Journal
Scientific Reports

Publication Number
10.1038/s41598-021-91010-y

Publication Date
01.06.2021

IPC

A61K 45/06   A61K 31/437   A61K 33/24

A61K 31/513   A61K 9/00

Authors
Mahboobeh Hodaei
Mehdi Rahimmalek
Mandana Behbahani

Title
[EN] Anticancer drug discovery from Iranian *Chrysanthemum* cultivars through system pharmacology exploration and experimental validation

Abstract

[EN]
Abstract Breast cancer is the most common carcinoma in women, and natural products would be effective preventing some side effects of cancer treatment. In the present study, cytotoxic activities of different Iranian Chrysanthemum morifolium cultivars were evaluated in human breast cancer cell lines [MCF-7] and human lymphocytes. A systems pharmacology approach was employed between major compounds of these cultivars (chlorogenic acid, luteolin, quercetin, rutin, ferulic acid, and apigenin) and known breast cancer drugs (tucatinib, methotrexate, tamoxifen, and mitomycin) with 22 breast cancer-related targets to analyze the mechanism through which Chrysanthemum cultivars act on breast cancer. Target validation was performed by the molecular docking method. The results indicated that Chrysanthemum extracts inhibited the proliferation of MCF7 cells in a dose- and cultivar-dependent manner. In all studied cultivars, the most effective extract concentration with the lowest viability of MCF-7 cells, was as much as 312 µg ml −1. Also, higher concentrations of the extracts [> 1000 µg ml −1] reduced the lymphocyte cell viability, demonstrating that these doses were toxic. The gene ontology analysis revealed the therapeutic effects of Chrysanthemum's active compounds on breast cancer by regulating the biological processes of their protein targets. Moreover, it has been documented that rutin, owing to its anticancer effects and several other health benefits, is a promising multi-targeted herbal ingredient. Finally, the present study compared different Iranian Chrysanthemum cultivars to provide new insights into useful pharmaceutical applications.

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https://www.nature.com/articles/s41598-021-91010-y

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▷ Fuel cells	H01M 4/86-4/98, 8/00-8/24, 12/00-12/08	H01M 4/86-4/98, 8/00-8/24, 12/00-12/0
Pyrolysis or gasification of biomass	C10B 53/00 C10J	C10B 53/00 C10J
▷ Harnessing energy from manmade waste		
▷ Hydro energy		
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ALLNUM:[DK 2008 123] - looking for IDs, WO, PCT numbers

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Languages English	Arabic Title
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CLASSIF:B25J*

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National Biblio. Data   Full Text   Documents

Office
Japan

Application Number
2018126600

Application Date
03.07.2018

Publication Number
2020006447

Publication Date
16.01.2020

Publication Kind
A

IPC ⍰
B25J 9/06

CPC
B25J 9/042   B25J 19/0029   B25J 9/06
B25J 9/104   B25J 9/1065   B25J 17/0291

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Applicants
ファナック株式会社

Inventors
山城　光

Agents
上田　邦生
柳　順一郎

Title
[JA] 水平多関節型ロボット

Abstract
[JA]
【課題】ロボット内の機器に電力、信号等を供給するケーブルの敷設作業を容易に行うことができる水平多関節型ロボットを
【解決手段】この水平多関節型ロボットは、ベース１００と、第１アーム１０と、第２アーム２０と、ベース１００および第
５０が、一端が第２アーム２０に接続され、他端にベース１００の上面に固定される第１板状部材６１が取付けられているア
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C	
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D	−	A01K	ANIMAL HUSBANDRY; AVICULTURE; APICULTURE; PISCICULTURE; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS

Note(s) **[5]**

This subclass covers:

- equipment for the care, culture or rearing of all animals or for obtaining their products, unless provided for elsewhere, e.g. milking A01J, shoeing animals A01L, veterinary devices A61D, devices in connection with harnesses B68B;
- methods of breeding animals or new animal breeds.

Animal husbandry in general, especially cattle-raising

D	−	C/F A01K 1/00	Housing animals; Equipment therefor **[2006.01]**

A01K 1/0005	• Stable partitions (devices for fastening animals A01K 1/06; pasturing enclosures A01K 3/00)
A01K 1/0011	• • Cubicle partitions
A01K 1/0017	• • Gates, doors
A01K 1/0023	• • • Sorting gates
A01K 1/0029	• • • Crowding gates or barriers
A01K 1/0035	• Transportable or mobile animal shelters
A01K 1/0041	• Rotary, round or circular animal barns
A01K 1/0047	• Air-conditioning, e.g. ventilation, of animal housings
A01K 1/0052	• • Arrangement of fans or blowers
A01K 1/0058	• • Construction of air inlets or outlets in roofs
A01K 1/0064	• • Construction of air inlets or outlets in walls
A01K 1/007	• • Arrangement of curtain systems
A01K 1/0076	• • Arrangement of heaters or heat exchangers
A01K 1/0082	• • Water misting or cooling systems
A01K 1/0088	• Animal shelters especially adapted for keeping young cattle, i.e. calves
A01K 1/0094	• Animal shelters or barns especially adapted for keeping horses

A01K 1/00 A	• Breeding of domestic animals
A01K 1/00 B	• • Low barns and cow pens
A01K 1/00 C	• • Environment control inside barns (see 1/035D for deodorization)
A01K 1/00 D	• • • Air conditioning
A01K 1/00 E	• • • • Heating and cooling a part of barns, e.g. for newborn pigs
A01K 1/00 F	• • • Related to air blasting and ventilation (see F24F)
A01K 1/00 Z	• Others

+	C/F A01K 1/01	• Removal of dung or urine (A01K 1/015 takes precedence) **[2006.01]**
+	C/F A01K 1/015	• Floor coverings, e.g. bedding-down sheets **[2006.01]**
+	C/F A01K 1/02	• Pigsties; Dog-kennels; Rabbit-hutches or the like **[2006.01]**
	A01K 1/04	• Tethering-poles or the like **[2006.01]**
D	+	C A01K 1/06	• Devices for fastening animals, e.g. halters, toggles, neck-bars or chain fastenings **[2006.01]**
D	A01K 1/08	• Arrangements for simultaneously releasing several animals **[2006.01]**
D	+	C A01K 1/10	• Feed racks **[2006.01]**
D	+	C A01K 1/12	• Milking stations **[2006.01]**
D	+	C A01K 3/00	Pasturing equipment, e.g. tethering devices; Grids for preventing cattle from straying; Electrified wire fencing (electric circuits or apparatus for supplying electric wire fencing H05C) **[2006.01]**

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