

Medical Information Retrieval and Management



Search for Patent Information





Apple Inc. v. Samsung Electronics Co.

Apple Inc. v. Samsung Electronics Co.

Apple Inc. v. Samsung Electronic Co., Ltd. was the first of a series of ongoing lawsuits between Apple Inc. and Samsung Electronics regarding the design of smartphones and tablet computers; between them, the companies made more than half of smartphones sold worldwide as of July 2012. In the spring of 2011, Apple began litigating against Samsung in patent infringement suits, while Apple and Motorola Mobility were already engaged in a patent war on several fronts. Apple's multinational litigation over technology patents became known as part of the mobile device "smartphone patent wars": extensive litigation in fierce competition in the global market for consumer mobile communications. By August 2011, Apple and Samsung were litigating 19 ongoing cases in nine countries; by October, the legal disputes expanded to ten countries. By July 2012, the two companies were still embroiled in more than 50 lawsuits around the globe, with billions of dollars in damages claimed between them. While Apple won a ruling in its favor in the U.S., Samsung won rulings in South Korea, Japan, and the UK. On June 4, 2013, Samsung won a limited ban from the U.S. International Trade Commission on sales of certain Apple products after the commission found Apple had violated a Samsung patent, but this was vetoed by U.S. Trade Representative Michael Froman.



Start date: Oct 11, 2016

End date: Dec 06, 2016



◆ Patents?



◆ Patent information?





◆ In the hospital, patents are everywhere.

Drugs

◆ Antineoplastic agents

Carmustine Methotrexate

◆ Antiinflammatory Drugs

aspirin CELECOXIB

◆ hypoglycemic drugs

Glimepiride

○ ○ ○ ○ ○ ○





scalpel



Glucose meter



stethophone



computed tomography



B ultrasound



Why search for patent information?

- ◆ New technology is submitted to the patent office *before* presented at conferences or submitted to technical journals
- ◆ Estimated 75 - 80% of published patents contain technical information never published anywhere else

“If you’re looking for the “state-of-the-art,”

you must search Patent database!”



Outline

- ◆ What is a patent? Some basics
- ◆ What tools can I use to search ?
- ◆ How to use these tools?

United States Patent and Trademark Office
(USPTO)

World Intellectual Property Organization
(WIPO)

Lens



What is a patent?

Patents are legal titles protecting inventions, offering a private right to the holder of the invention who can prevent others from using his patented invention.



What is a patent?

- ◆ An invention is a solution to a specific technological problem and is a product or a process



What is the patent right?

The exclusive right granted by a government to an inventor to manufacture, use, or sell an invention for a certain number of years.



Patent ABC

- ◆ Patents have a limited lifetime.
- ◆ Patents are rights with geographic boundaries.
- ◆ Patent rights are exclusionary rights.



limited lifetime

- ◆ A patent lasts for up to 20 years, depending on the country. After that, anyone can copy the invention.



geographic boundaries

- ◆ Each country has its own patents. China gives Chinese patents. India gives Indian patents. The United States gives United States patents. An inventor can get a patent in any country the inventor wants. An inventor can get patents in many different countries for the same invention. Each patent in each country costs money.



Exclusionary rights

- ◆ **The right to exclude others from making, using, offering for sale, selling or importing the invention**



- ◆ If someone makes or uses that invention without being allowed to, the inventor can sue that person in court to make them stop. The inventor can sell the patent to another person or company.



Getting Patent

- ◆ It must be **new**, so that nobody else has made the same thing or something similar in the past
- ◆ It must involve an **inventive step**: this means it is not something that anyone could have easily made
- ◆ It must have an **application to the real world**: it must be useful to do something.



Further Reading

Drug Patents and Generic Pharmaceutical Drugs

When a pharmaceutical company first develops a new drug to be used for a disease condition, it is initially sold under a brand name by which the clinicians can prescribe the drug for use by patients. The drug is covered under patent protection, which means that only the pharmaceutical company that holds the patent is allowed to manufacture, market the drug and eventually make profit from it.

In most cases, the drug patent is awarded for around twenty years in the United States. The lifetime of the patent varies between countries and also between drugs. Since the company applies for a patent long before the clinical trial to assess a drug's safety and efficacy has commenced, the effective patent period after the drug has finally received approval is often around seven to twelve years.

Once the patent has expired, the drug can be manufactured and sold by other companies. At this point, the drug is referred to as a generic drug. According to guidelines in most countries, including those from the US FDA, generic drugs have to be identical to the branded drug in terms of efficacy, safety, usage, route of drug administration, pharmacokinetics and pharmacodynamics.



Types of patent in U.S.A.

- ◆ **Utility patents**
- ◆ **Design patents**
- ◆ **Plant patents**



Types of patent in U.S.A.

- ◆ **Utility patents** may be granted to anyone who invents or discovers any new and useful process, machine, article of manufacture, or composition of matter, or any new and useful improvement ;



Utility Patents-invention

- ◆ What we think of as a “patent”
- ◆ Protect how the item WORKS
- ◆ Length of protection is 20 years from date of file, provided maintenance fees are paid



Types of patent in U.S.A.

- ◆ Design patents may be granted to anyone who invents a new, original, and ornamental design for an article of manufacture
- ◆ The design patent protects only the **appearance** of an article, but not its structural or functional features



Types of patent in U.S.A.

- ◆ **Plant patents may be granted to anyone who invents or discovers and asexually reproduces any distinct and new variety of plant, including cultivated sports, mutants, hybrids, and newly found seedlings, other than a tuber-propagated plant or a plant found in an uncultivated state.**



Design & Plant Patents

- ◆ Design patents **protect how the item LOOKS**
- ◆ **Design Patents protect for 14 years; while Plant Patents for 20 years**
- ◆ Plant patents **protect a variety of plant such as roses, begonias, etc.**



A patent document has:

preface

Inventor

Assignee

Application Number

Patent Number

Filing Date

Publication date

Issue Date

Drawings

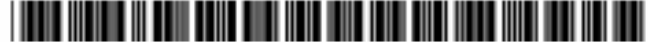
Specification

Claims

**Only in
TIFF
format**



Taskbar and Start Menu: The taskbar shows the Start button and three open applications: "uspto patent sea...", "United States Pa...", and "patent search201...". The system clock in the bottom right corner displays the time "17:14".



US006199513B1

(12) **United States Patent**
Nichols

(10) **Patent No.:** **US 6,199,513 B1**
(45) **Date of Patent:** Mar. 13, 2001

(54) **CURRY COMB AND METHOD OF MANUFACTURE**

(76) **Inventor:** James H. Nichols, 1783 Flat Gap Rd., Jefferson City, TN (US) 37760

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/627,686

(22) **Filed:** Jul. 28, 2000

(51) **Int. Cl.⁷** A01K 13/00

(52) **U.S. Cl.** 119/625; 119/633

(58) **Field of Search** 119/600, 617, 119/625, 628, 632, 633; 132/126, 142; D30/159

(56) **References Cited**

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Primary Examiner—Charles T. Jordan

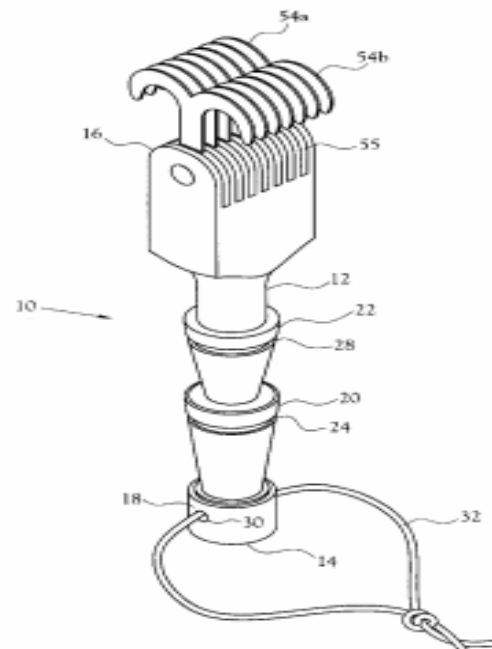
Assistant Examiner—Elizabeth Shaw

(74) *Attorney, Agent, or Firm*—Pitts & Brittain P.C.

(57) **ABSTRACT**

A curry comb comprises an elongated handle, a plurality of curved blade and a hardened resin. The handle is preferably formed from a single piece and includes a first end and a second end, defining a longitudinal axis. A plurality of ridges and grooves are defined in the handle adjacent to the first end. A plurality of slots defined in the second end of the handle are generally parallel to one another and parallel to the longitudinal axis of the handle. A curved blade, having a secured end, a working end, an outer curved edge and an inner curved edge, extends into each of the slots and is secured in position with a hardened resin. The curved blades may be oriented in opposing directions and the inner curved edges of opposing blades may be sharpened to different degrees of sharpness.

11 Claims, 3 Drawing Sheets



preface

Drawings



U.S. Patent

Mar. 13, 2001

Sheet 1 of 3

US 6,199,513 B1

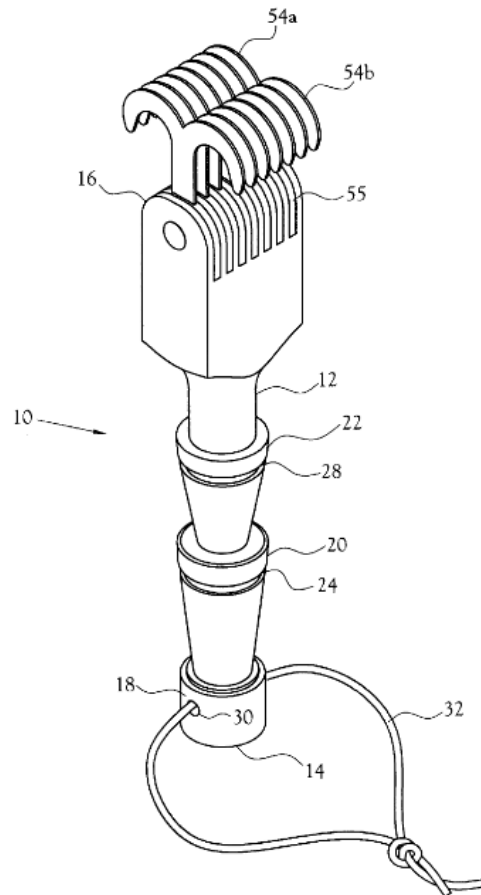


Fig.1

Specification

US 6,199,513 B1

1 CURRY COMB AND METHOD OF MANUFACTURE

CROSS-REFERENCE TO RELATED APPLICATIONS

Not applicable.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable.

TECHNICAL FIELD

The present invention relates generally to a curry comb and an improved method for manufacturing a curry comb and more particularly to a curry comb having blades adapted to comb and cut long hair without injuring an animal being combed.

BACKGROUND OF THE INVENTION

In the field of animal care, animals with long haired coats, including without limitation horses, llamas, camels and dogs, require combing and thinning to clear tangles, debris and insects that collect in the hair, thus preventing the hair from matting. Regular currying provides a healthier environment for the animals, as well as a more pleasant appearance.

Prior curry combs have generally oriented the teeth of the comb at an angle generally perpendicular to the length of an elongated handle. As a result of this orientation, the points of the comb teeth will poke and potentially scratch the skin of the animal being combed. Prior efforts to overcome the damage to an animal's skin have included the curvature of the teeth as shown in U. S. Pat. No. 3,191,725 issued to Maniscalco on Jan. 27, 1970. However, the construction of the '725 device is such that only one type of comb is available to the groomer and with repeated use the blades and handle will loosen, thus reducing the efficiency and safety of the curry comb.

Prior curry combs have also used generally smooth handles that will tend to slip in the hand of the groomer, especially when the comb encounters a tough snarl of hair or if the groomer's hand is wet. Such slippage is unsatisfactory because of its inefficiency as well as the potential for injury to the animal or the groomer. Also, groomers often use gloves while grooming. A smooth handle is difficult to manipulate in heavily matted hair, especially when gloves are used and when water is involved, as after an animal is bathed. It has also been found that curry combs assembled with threaded bolts, for example are prone to loosening over time, particularly as they are frequently tugged through matted and tangled hair.

In many cases, it is desirable to use a curry comb that does not have blades sharp enough to easily cut the hair. Instead the desire is to have the blades work their way through the tangled hair, removing any debris or insects and leaving the hair in a generally parallel orientation. However, there are times when it is desirable to thin the hair or to cut out hair that has become so hopelessly tangled that a comb cannot remove the hair. For this situation, it is desirable to have blades that are sharp enough to cut the hair with force that will not be a discomfort to the animal. Heretofore two separate curry combs have been required two in order to provide both the combing function and the cutting function.

Accordingly, it is an object of the present invention to provide a curry comb that is adaptable to both comb and cut

2

the long hair of animals. It is also an object to provide a curry comb that resists slippage in the hand of a groomer, even when the groomer's hand is wet or gloved. It is a further object to provide a method of manufacturing a curry comb with aligned blades that will not loosen with use. These and other advantages will become apparent to one skilled in the art when the following description is considered along with the drawings.

SUMMARY OF THE INVENTION

In accordance with the present invention, a curry comb is assembled from an elongated handle, a plurality of curved blades and a resin. The handle, preferably formed in a single piece, includes a first end and a second end and defines a longitudinal axis. A plurality of coaxial ridges and grooves are defined in the handle adjacent to the first end. A plurality of slots defined in the second end of the handle are generally parallel to one another and parallel to the longitudinal axis of the handle. A curved blade, having a secured end, a working end, an outer curved edge and an inner curved edge, extends into each of the slots and is secured in position with a hardened resin. The curved blades may be oriented in opposing directions and the inner curved edges of opposing blades may be sharpened to different degrees of sharpness.

A curry comb in accordance with the present invention may be assembled by forming an elongated handle having a first end, a second end and defining a longitudinal axis. A plurality of coaxial ridges and grooves are defined in the handle adjacent to the first end of the handle. A plurality of slots are defined in the second end of the handle. The slots are generally parallel to one another and parallel to the longitudinal axis of the handle. Each of the slots is adapted to receive a curved blade having a secured end and a working end. A malleable resin is packed into the slots and a blade is inserted into the resin in each slot and secured in a fixed position. While the resin hardens to permanently secure the blades in the slots.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a curry comb in accordance with the present invention.

FIG. 2 is a perspective view of a curry comb in accordance with the present invention.

FIG. 3 is an exploded perspective view of a curry comb in the process of manufacture.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings, in which like reference numerals indicate like or corresponding features, there is shown in FIG. 1 a tool 10 embodying various features of the present invention. An elongated handle 12 having a first end 14 and a second end 16 defines a longitudinal axis. The handle 12 is about 8 inches in length in the depicted embodiment. Those skilled in the art will recognize that the handle may be fashioned from any of a variety of rigid materials including wood, metal or plastic. In the preferred embodiment hickory wood is used for its pleasing appearance and long-term durability. White oak is also acceptable. In the half of the handle adjacent to the first end 14, a plurality of coaxial, circumferential shoulders 18, 20 and 22 and grooves 24 and 28 are alternately defined in the handle 12. Between the shoulders and grooves, the handle is preferably tapered in diameter to increase the texture of the handle 12.

Claims



I claim:

1. A curry comb comprising an elongated handle having a longitudinal axis and a first end and a second end, a plurality of coaxial ridges and grooves defined at spaced intervals along said handle adjacent to said first end, a plurality of slots defined in said handle at said second end, said slots being generally parallel to one another and to said longitudinal axis, a plurality of curved blades, each of said blades having a secured end section, a sharpened end section, an inner edge and an outer edge, said secured end section being located within one of said slots and said sharpened end section extending longitudinally beyond said second end of said handle generally parallel to said longitudinal axis, and a hardened resin securing said blades within said slots.

2. A curry comb in accordance with claim 1 wherein said blades are J-shaped.

3. A curry comb in accordance with claim 1 wherein each of said blades includes a first curved section and a second curved section opposed to said first curved section.



US00D711055S

(12) United States Design Patent
Singer**(10) Patent No.:****US D711,055 S****(45) Date of Patent:****** Aug. 12, 2014****(54) CURRY COMB****(71) Applicant:** Stacey Lee Singer, San Anselmo, CA (US)**(72) Inventor:** Stacey Lee Singer, San Anselmo, CA (US)**(**) Term:** 14 Years**(21) Appl. No.:** 29/467,228**(22) Filed:** Sep. 17, 2013**(51) LOC (10) CL:** 30-99**(52) U.S. CL:**

USPC D30/158; D30/159

(58) Field of Classification Search

USPC D30/158, 159, 199; D4/114, 116, 119, D4/127, 129, 136, 137, 138, 120, 125; D32/35, 40, 45, 52; 119/600, 611-616, 119/625, 631, 632, 633; 401/28, 286; 15/188; D19/69

See application file for complete search history.

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D648,799 S *	11/2011	Shimizu	D19/69

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Primary Examiner — Caron D Veynar*Assistant Examiner* — Martie K Holtje**(74) Attorney, Agent, or Firm** — Michael B. Fein, Esq.; Eckert Seamans Cherin & Mellott, LLC**(57)****CLAIM**

The ornamental design for a curry comb, as shown and described.

DESCRIPTION

FIG. 1 is a side elevational view of a curry comb showing my new design;

FIG. 2 is a top plan view thereof;

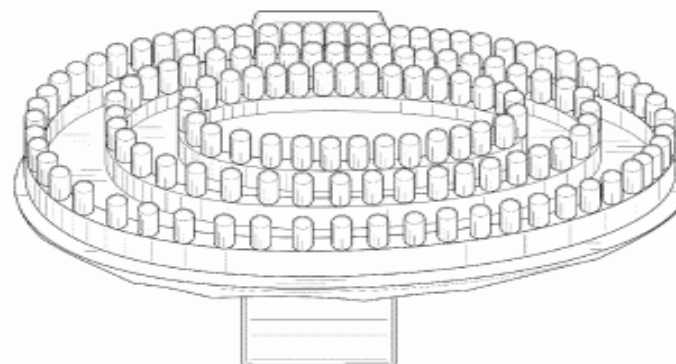
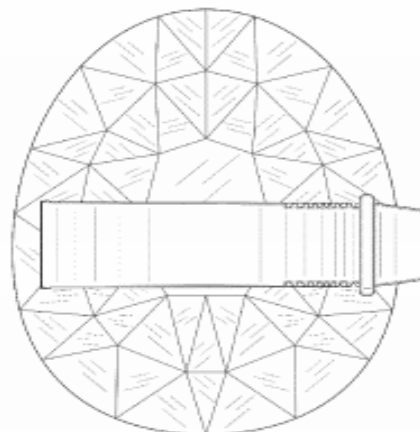
FIG. 3 is an end elevational view thereof;

FIG. 4 is a top plan view of the strap element thereof;

FIG. 5 is a bottom perspective view thereof;

FIG. 6 is an elevational view of the reverse side of FIG. 3; and,

FIG. 7 is an elevational view of the reverse side of FIG. 1. The broken lines on the strap retaining structure in FIG. 7 represent boundaries, the area within which forms no part of the claimed design.

1 Claim, 6 Drawing Sheets



US00PP27353P3

**(12) United States Plant Patent
Harvey****(10) Patent No.:****US PP27,353 P3****(45) Date of Patent:****Nov. 8, 2016****(54) ORIGANUM PLANT NAMED 'BELLISSIMO'****(50) Latin Name:** *Origanum* hybrid
Varietal Denomination: Bellissimo**(71) Applicant:** Marcus Harvey, South Hobart (AU)**(72) Inventor:** Marcus Harvey, South Hobart (AU)**(*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 17 days.**(21) Appl. No.:** 14/544,685**(22) Filed:** Feb. 3, 2015**(65) Prior Publication Data**
US 2016/0227690 P1 Aug. 4, 2016**(51) Int. Cl.**
A01H 5/02 (2006.01)**(52) U.S. Cl.**
USPC **Plt./258****(58) Field of Classification Search**
USPC **Plt./263.1, 258**
See application file for complete search history.**(56) References Cited****PUBLICATIONS**

Janna Schreier Garden Design/London (<https://jannaschreier.com/2014/12/15/brand-new-plant-releases-2014/>). 6 pages.*
(Southern Australian Garden and Outdoor Living vol. 13, p. 6 (https://issuu.com/gardenandoutdoorliving/docs/sagol_13_lo_res)). 2 pages.*

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Primary Examiner — Susan McCormick Ewoldt*Assistant Examiner* — Karen Redden**(74) Attorney, Agent, or Firm** — Cassandra Bright**(57) ABSTRACT**

A new and distinct *Origanum* cultivar named 'BELLISSIMO' is disclosed, characterized by a controlled, attractive, dome shaped growth habit. Flowers have large dark pink floral bracts. The new cultivar is an *Origanum*, typically suited for garden and ornamental container use.

2 Drawing Sheets**1**

Latin name of the genus and species: *Origanum* hybrid.
Variety denomination: 'BELLISSIMO'.

BACKGROUND OF THE INVENTION

The new cultivar is a product of a planned breeding program. The new variety originated from the pollination of the seed parent, an unpatented variety of *Origanum* hybrid known as 'Kent Beauty' with the pollen parent, an unpatented variety of *Origanum* hybrid known as 'Barbara Tingey' conducted by the inventor during 2009. The crossing was made in a commercial nursery in South Hobart, Tasmania, Australia.

'BELLISSIMO' was first discovered by the inventor, Marcus Harvey, in 2010 at the same nursery in South Hobart, Australia. The inventor observed the new variety for three years, making the final selection of the variety during 2013.

Asexual reproduction of the new cultivar 'BELLISSIMO' was first performed in the nursery at South Hobart, Australia by vegetative tip cuttings during 2010. 'BELLISSIMO' has since produced at least six generations and has shown that the unique features of this cultivar are stable and reproduced true to type.

SUMMARY OF THE INVENTION

The cultivar 'BELLISSIMO' has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, day length, and light intensity, without, however, any variance in genotype.

2

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Bellissimo'. These characteristics in combination distinguish 'BELLISSIMO' as a new and distinct *Origanum* cultivar:

1. Controlled, attractive dome shaped plant habit.
2. Deep pink bract coloration

PARENTAL COMPARISON

Plants of the new cultivar 'BELLISSIMO' are similar to the female parent 'Kent Beauty' in most horticultural characteristics. However, 'BELLISSIMO' differs in producing bracts of a much deeper pink color than the seed parent.

Plants of the new cultivar 'BELLISSIMO' are similar to the male parent 'Barbara Tingey' in most horticultural characteristics. However, plants of 'BELLISSIMO' are dome shaped in habit, whereas plants of the pollen parent are prostrate to trailing.

COMMERCIAL COMPARISON

'BELLISSIMO' can be compared to *Origanum laevigatum* 'Lizzie', unpatented. Plants are similar in most horticultural characteristics, however, the new variety differs in the following:

1. The new variety has wider inflorescence
2. The new variety has deeper pink colored bracts.
3. Plants of the new variety are more mounding and compact than plants of this comparator.

'BELLISSIMO' can be compared to *Origanum laevigatum* 'Pilgrim', unpatented. Plants are similar in most horticultural characteristics, however, the new variety differs in the following:





Fig. 1

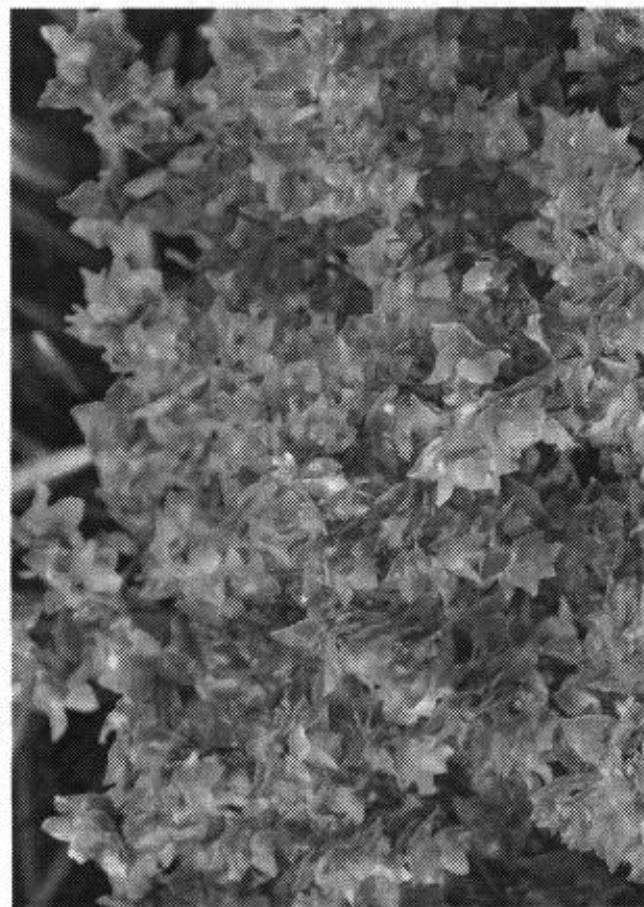


Fig. 2



US00PP09561P

United States Patent [19]

Poulsen

[11] Patent Number:

Plant 9,561

[45] Date of Patent:

May 21, 1996

[54] ELATIOR BEGONIA PLANT NAMED LEA

[76] Inventor: **Jens N. Poulsen**, Gartneriet J.N.P.,
Larsmindevej 1, Lisbjerg, DK-8200
Aarhus N., Denmark

[21] Appl. No.: **388,581**[22] Filed: **Feb. 9, 1995**[51] Int. CL.⁶ **A01H 5/00**[52] U.S. CL. **Plt/87.18**[58] Field of Search **Plt/87.18**

Primary Examiner—James R. Feyrer
Attorney, Agent, or Firm—Proprietary Rights Intl.

[57] **ABSTRACT**

A distinctive cultivar of Elatior Begonia plant named Lea, characterized by its upright and spreading growth habit; compact plant size; freely branching habit; strong stems and stem base; small leaves; medium pink flower color; large number of flowers per raceme; small flowers; early and even flowering; strong and vigorous root system; and good post-production longevity.

1 Drawing Sheet**1**

The present invention relates to a new and distinctive cultivar of Begonia plant, botanically known as *Begonia* × *hiemalis*, commercially known as Elatior Begonia, and referred to by the cultivar name Lea.

The new cultivar was discovered by the inventor in Aarhus, Denmark, as a mutation of the nonpatented Elatior Begonia cultivar Rikke, and was observed in a group of 15-cm flowering plants of the parent.

Asexual reproduction of the new cultivar by tip cuttings in Aarhus, Denmark, has shown that the unique features of this new Elatior Begonia are stabilized and are reproduced true to type in successive propagations.

The new cultivar has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in environment such as temperature, light level and daylength, without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of Lea. The following characteristics differentiate the new cultivar from the parent cultivar Rikke and other Elatior Begonias commercially known and used in the floriculture industry, namely the nonpatented cultivar Nelly:

1. Plants of the cultivar Lea are upright and spreading in growth habit. Plants of the cultivar Rikke are similar in plant habit to plants of Lea. Plants of the cultivar Nelly are more spreading compared to plants of Lea.

2. Plants of the cultivar Lea are compact. Plants of the cultivar Lea are less vigorous and shorter than plants of the cultivars Rikke and Nelly.

2

8. Flowers of the cultivar Lea are small in diameter. Plants of the cultivar Lea have smaller flowers than plants of the cultivars Rikke and Nelly.

9. Plants of the cultivar Lea flower early. Plants of the cultivar Lea flower earlier than plants of the cultivars Rikke and Nelly.

10. Plants of the cultivar Lea are evenly covered with flowers. Plants of the cultivar Lea are more evenly covered with flowers than plants of the cultivars Rikke and Nelly.

11. Plants of the cultivar Lea have strong and vigorous root systems. Plants of the cultivar Lea have stronger and more vigorous root systems than plants of the cultivars Rikke and Nelly.

12. Plants of the cultivar Lea have good postproduction longevity. Plants of the cultivar Lea last longer in the interior environment than plants of the cultivars Rikke and Nelly.

The accompanying colored photograph illustrates the overall appearance and flower color of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. The photograph comprises a side perspective view of a typical potted plant of Lea.

The following observations, measurements, values, and comparisons describe plants grown in Aarhus, Denmark, under commercial practice in a glass-covered greenhouse with day and night temperatures ranging from 19 to 21°C. Depending on cloud cover, light levels ranged from 5,000 to 35,000 lux.



Outline

- ◆ What is a patent? Some basics
- ◆ What tools can I use to search?
- ◆ How to use these tools?

United States Patent and Trademark Office (USPTO)

World Intellectual Property Organization
(WIPO)

Lens



What tools can I use to search?

- ◆ **WIPO** World Intellectual Property Organization
- ◆ **EPO** European Patent Office
- ◆ Patent offices of different countries
 - USPTO** United States Patent and Trademark Office
 - JPO** Japan Patent Office
 - IP India** Intellectual Property India
 - China SIPO** State Intellectual Property Office
- ◆ Other database or search engine
 - Patent Lens**
 - Derwent** **Biosis Preview** **Chemical Abstract**
 - Google Patent Search**



World Intellectual Property Organization



Enabling Entry into Force

The Geneva Act of the Lisbon Agreement on Appellations of Origin and Geographical Indications reached a milestone enabling its entry into force, as the European Union joined as the key fifth member of the international registration system that provides protection for names identifying the geographic origin of products such as coffee, tea, fruits, wine, pottery, glass and cloth.

In focus

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November 12, 2019

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Appellations of Origin

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Domain Names

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- ◆ **PCT – The International Patent System**
- ◆ **The Patent Cooperation Treaty (PCT) assists applicants in seeking patent protection internationally for their inventions, helps patent Offices with their patent granting decisions, and facilitates public access to a wealth of technical information relating to those inventions. By filing one international patent application under the PCT, applicants can simultaneously seek protection for an invention in a very large number of countries**

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A new report published by the USPTO, "Patenting Activity among 5G Technology Developers," concludes that there is global competition in 5G innovation, with no one company dominating the field

USPTO seeks nominations for prestigious National



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- 18 Nov 2019**

Public Notice regarding Enrolment as Facilitator for Start-ups in Patents & Designs/ Trademarks under SIPP scheme **new**
- 07 Nov 2019**

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- 07 Nov 2019**

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- November 25, 2019**

Supply and erection of modular composite work stations including dismantling of existing workstations, along with wooden and glass partition including Installation of Electrical Switches; Networking Switches; Supply and Fixing of Networking Terminals including Integration with Existing LAN **new**

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2022-02-28

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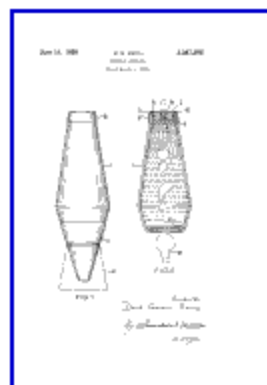
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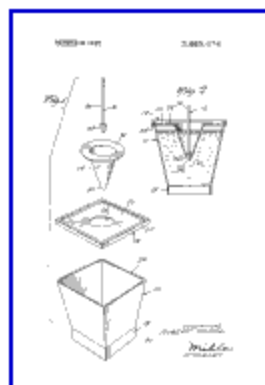
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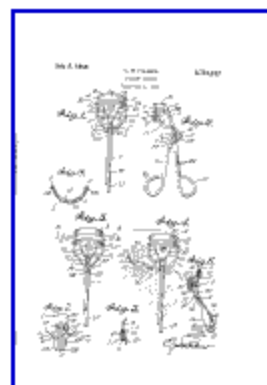
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- ◆ What is a patent? Some basics
- ◆ What tools can I use to search?
- ◆ **How to use these tools?**

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Question No.1:

**Search for patents on vaccine of influenza
granted by USPTO from 1976**

**[http://patft.uspto.gov/netahtml/PTO/index
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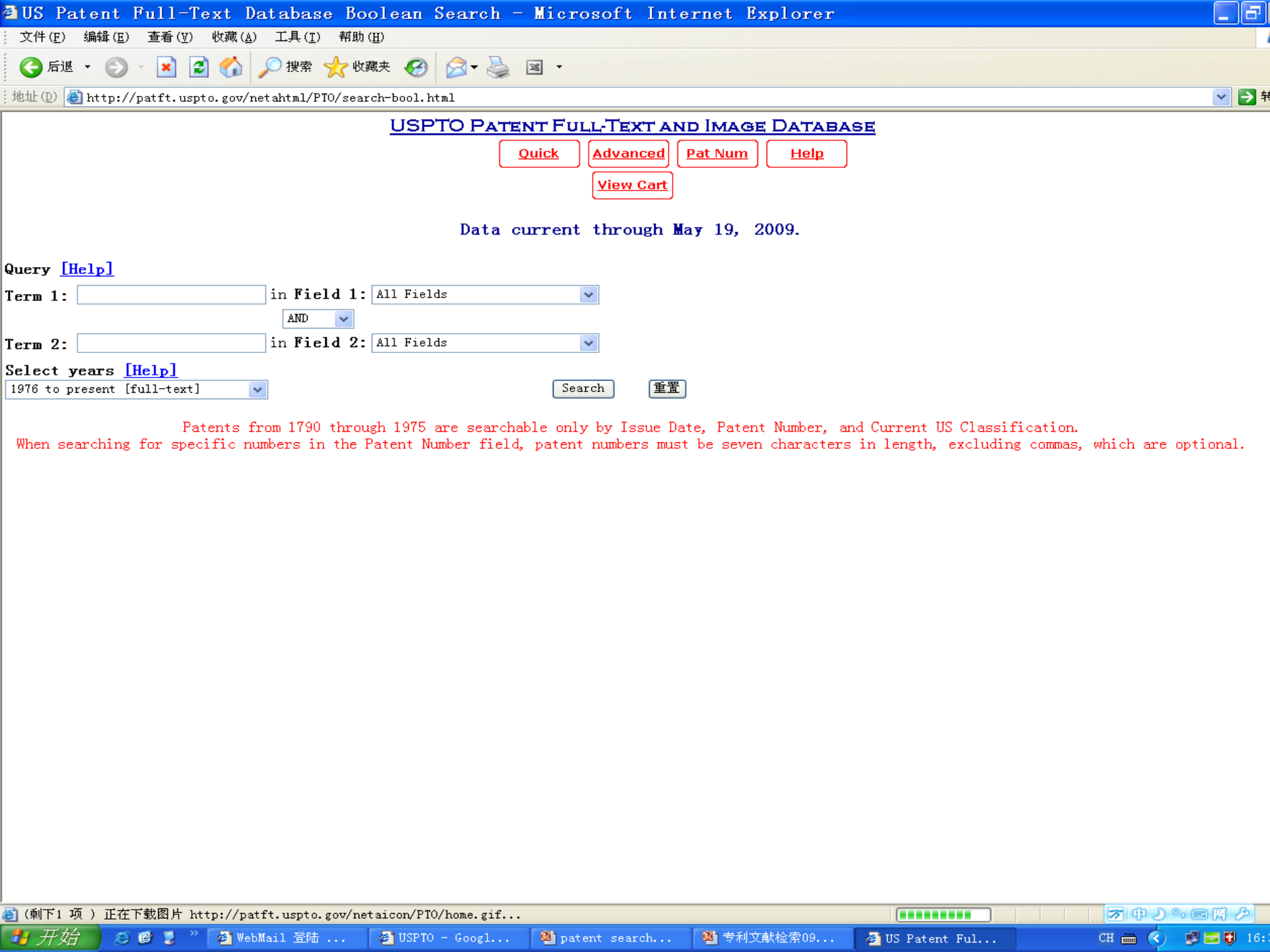
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- ♦ **Two Different Databases to Search**
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 - Patent/Application Number



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isd/1/8/2002 and motorcycle

in/newmar-julie

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Patents from 1790 through 1975 are searchable only by Issue Date, Patent Number, and Current US Classification.

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Field Code	Field Name	Field Code	Field Name
PN	Patent Number	IN	Inventor Name
ISD	Issue Date	IC	Inventor City
TTL	Title	IS	Inventor State
ABST	Abstract	ICN	Inventor Country
ACLM	Claim(s)	LREP	Attorney or Agent
SPEC	Description/Specification	AN	Assignee Name
CCL	Current US Classification	AC	Assignee City
ICL	International Classification	AS	Assignee State
APN	Application Serial Number	ACN	Assignee Country
APD	Application Date	EXP	Primary Examiner
PARN	Parent Case Information	EXA	Assistant Examiner
RLAP	Related US App. Data	REF	Referenced By
REIS	Reissue Data	FREF	Foreign References
PRIR	Foreign Priority	OREF	Other References
PCT	PCT Information	GOVT	Government Interest
APT	Application Type		



USPTO Advanced Patent Search

Field Code	Field Name	Field Code	Field Name
PN	Patent Number	IN	Inventor Name
ISD	Issue Date	IC	Inventor City
TTL	Title	IS	Inventor State
ABST	Abstract	ICN	Inventor Country
ACLM	Claim(s)	LREP	Attorney or Agent
SPEC	Description/Specification	AN	Assignee Name
CCL	Current US Classification	AC	Assignee City
ICL	International Classification	AS	Assignee State
APN	Application Serial Number	ACN	Assignee Country
APD	Application Date	EXP	Primary Examiner
PARN	Parent Case Information	EXA	Assistant Examiner
RLAP	Related US App. Data	REF	Referenced By
REIS	Reissue Data	FREF	Foreign References
PRIR	Foreign Priority	OREF	Other References
PCT	PCT Information	GOVT	Government Interest
APT	Application Type		

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Utility -- 5,146,634 6923014 0000001

Design -- D339,456 D321987 D000152

Plant -- PP08,901 PP07514 PP00003

Reissue -- RE35,312 RE12345 RE00007

Defensive Publication -- T109,201 T855019 T100001

Statutory Invention Registration -- H001,523 H001234 H000001

Re-examination -- RX29,194 RE29183 RE00125

Additional Improvement -- AI00,002 AI000318 AI00007



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TTL/vaccine AND TTL/influenza: 219 applications.
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PUB. APP. NO. Title

- 1 [20220047693](#) [AVIAN INFLUENZA AND FOWL ADENOVIRUS TYPE 4 BI-COMBINED GENETIC ENGINEERING SUBUNIT VACCINE AND METHOD FOR PREPARING THE SAME](#)
- 2 [20220031833](#) [INACTIVATED WHOLE-VIRUS INFLUENZA VACCINE AND METHOD FOR PREPARING SAME](#)
- 3 [20220023411](#) [INFLUENZA VACCINE](#)
- 4 [20220008332](#) [MICRONEEDLE ARRAY CONTAINING INFLUENZA VACCINE AND METHOD OF PRODUCING MICRONEEDLE ARRAY](#)
- 5 [20210361763](#) [MULTIVALENT LIVE INFLUENZA VACCINE PLATFORM USING RECOMBINANT ADENOVIRUS](#)
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- 8 [20210244810](#) [RECOMBINANT H7N9 SUBTYPE AVIAN INFLUENZA VIRUS, INACTIVATED MARKED VACCINE AND PREPARATION METHOD THEREOF](#)
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- 13 [20210061862](#) [INFLUENZA VIRUS REPLICATION FOR VACCINE DEVELOPMENT](#)
- 14 [20210060153](#) [METHOD FOR PREPARING INFLUENZA WORKING VIRUS SEED STOCK, METHOD FOR PREPARING INFLUENZA VACCINE USING SAME SEED STOCK, AND VIRUS SEED STOCK PREPARED BY SAME ME](#)
- 15 [20210052719](#) [A UNIVERSAL VACCINE AGAINST INFLUENZA](#)
- 16 [20200405843](#) [Multivalent Live-attenuated Influenza Vaccine for Prevention and Control of Equine Influenza Virus \(EIV\) in Horses](#)
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- 18 [20200369730](#) [HEPATITIS B NANOPARTICLE-BASED VACCINE FOR INFLUENZA VIRUS](#)
- 19 [20200360508](#) [H7 Avian Influenza Vaccine Strain which Differentiates Infected from Vaccinated Animals, Preparation Method Therefor, and Application](#)
- 20 [20200360507](#) [INFLUENZA VACCINE](#)
- 21 [20200330585](#) [SWINE INFLUENZA A VIRUS VACCINE](#)
- 22 [20200318078](#) [H9 AVIAN INFLUENZA VACCINE STRAIN WHICH DIFFERENTIATES INFECTED FROM VACCINATED ANIMALS, AND PREPARATION METHOD THEREFOR](#)



Question No2:

Search patents for dengue virus granted by USPTO. Are there applications for kit of dengue virus?



Question No.3:

Search medical patents with assignee
from India

Trips:

(Assignee Country=IN) and (CPC= A61\$)





Patent Classification

International Patent Classification (IPC)

- Wide use

US Patent Office Classification (USPC)

- Continuous updates with finer detail than IPC

European Patent Classification (ECLA)

- valuable extension of IPC



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- ◆ The Cooperative Patent Classification (CPC) effort is a joint partnership between the United States Patent and Trademark Office (USPTO) and the European Patent Office (EPO) where the Offices have agreed to harmonize their existing classification systems (European Classification (ECLA) and United States Patent Classification (USPC) respectively) and migrate towards a common classification scheme.



International Patent Classification

- ◆ IPC was 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.



Classification Standards and Development

- ◆ <https://www.uspto.gov/patents-application-process/patent-search/classification-standards-and-development>

CPC	COOPERATIVE PATENT CLASSIFICATION
A	HUMAN NECESSITIES
B	PERFORMING OPERATIONS; TRANSPORTING
C	CHEMISTRY; METALLURGY
D	TEXTILES; PAPER
E	FIXED CONSTRUCTIONS
F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS
G	PHYSICS
H	ELECTRICITY
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

CPC

COOPERATIVE PATENT CLASSIFICATION

☐ A

HUMAN NECESSITIES

☒ AGRICULTURE☒ FOODSTUFFS; TOBACCO☒ PERSONAL OR DOMESTIC ARTICLES☐ HEALTH; AMUSEMENT☐ A61

MEDICAL OR VETERINARY SCIENCE; HYGIENE

A61B**DIAGNOSIS; SURGERY; IDENTIFICATION** (analysing biological material G01N, e.g. G01N 33/48; obtaining records using waves other than optical waves, in general G03B 42/00)**NOTE**

This subclass covers instruments, implements and processes for diagnostic, surgical and person-identification purposes, including obstetrics, instruments for cutting corns, vaccination instruments, finger-printing, psycho-physical tests.

WARNING

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A61B5/0295	covered by	A61B 5/026
A61B5/151	covered by	A61B 5/1411
A61B5/153	covered by	A61B 5/1405
A61B5/154	covered by	A61B 5/1438
A61B5/157	covered by	A61B 5/00 and s. gr.
A61B17/03	covered by	A61B 17/00
A61B17/125	covered by	A61B 17/122
A61B17/138	covered by	A61B 17/12
A61B17/76	covered by	A61B 17/744
A61B17/78	covered by	A61B 17/744
A61B17/90	covered by	A61B 17/88
A61B17/94	covered by	A61B 17/29



Keywords vs Classification

- ◆ Keyword searches alone will find probably only 10% of important patents.
- ◆ A thorough patent search will consist of dozens of search strategies involving class/keyword and class/class searches.



Try it!

- ◆ Search for the following patents in USPTO (United States Patent and Trademark Office) patents database.
- ◆ <http://patft.uspto.gov/>
- ◆ Read patent documents.

US PATENT & TRADEMARK OFFICE

PATENT APPLICATION FULL TEXT AND IMAGE DATABASE



(1 of 2)

United States Patent Application

20190091129

Kind Code

A1

Fevola; Michael J.; et al.

March 28, 2019

PERSONAL CARE COMPOSITIONS CONTAINING COMPLEXING POLYELECTROLYTES

Abstract

Compositions of the invention contain, in a cosmetically acceptable aqueous medium, a) a cationic polyelectrolyte, b) at least one surfactant; and (c) from about 0.01 to about 1.2 weight percent of an anionic polyelectrolyte, where the weight ratio of the anionic polyelectrolyte to the cationic polyelectrolyte is from about 0.05 to about 1.2, and where the composition exhibits a viscosity change that is below a minimum significant-change-threshold ($\Delta \eta_{min}$) and exhibits no measurable yield stress or increase in yield stress value when compared to a substantially identical composition that does not contain from about 0.01 to about 1.2 weight percent of the anionic polyelectrolyte, at a weight ratio of anionic polyelectrolyte to cationic polyelectrolyte of from about 0.05 to about 1.2.

Inventors: Fevola; Michael J.; (Belle Mead, NJ); Fuetterer; Tobias J.; (Princeton, NJ); Lohr; Matthew A.; (Ewing, NJ)

Applicant: Name City State Country Type

Johnson & Johnson Consumer Inc. Skillman NJ US

Family ID: 59101355

Appl. No.: 16/205670

Filed: November 30, 2018

Related U.S. Patent Documents

Application Number

Filing Date

Patent Number

15278184

Sep 28, 2016

10159638

16205670

62352713

Jun 21, 2016



Exercises for USPTO patent:

- ◆ We know Indian Institute of Technology is very famous. Does it have patents issued by USPTO?
- ◆ We want to know whether China made some applications on ginseng.



Questions!

- ◆ The most old patents you could find in USPTO patents database ?
- ◆ The difference between the two databases on the following page: <http://patft.uspto.gov>
- ◆ You can find what on the preface of a patent document?
- ◆ A patent belongs to whom, assignee or inventor?
- ◆ Where you can read technique in detail of a patent?



◆ Assignee Name (AN)

- This field contains the name of the individual or entity to whom ownership of the published application was assigned at the time of publication.



Notice

Date Range Searching

- ◆ You can specify a range of dates you are interested in searching, rather than having to specify a certain day or month to narrow your search. This feature is only available in date fields, such as Issue Date and Application Date. This is done by using the -> operator between two dates.
- ◆ Example
ISD/11/1/1997->5/12/1998



Outline

- ◆ What is a patent? Some basics
- ◆ What tools can I use to search?
- ◆ How to use these tools?

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◆ <http://www.wipo.int/pct/en/>

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Operator AND	▼	Field Title	▼	Value online learning	?
Operator AND	▼	Field English Title	▼	Value	?
Operator AND	▼	Field Abstract	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

1. **20180150143** DATA INPUT SYSTEM WITH **ONLINE LEARNING**

US - 31.05.2018

Int.Class **G06F 3/023** ? Appl.No 15475038 Applicant **Microsoft** Technology Licensing, LLC Inventor Douglas Alexander Harper Orr

A data input system is described for inputting text items to an electronic device. The data input system has a store holding a vocabulary of embeddings of text items, each embedding being a numerical encoding of a text item. The data input system receives user input comprising a sequence of one or more context text items and a new text item, the new text item being a text item with an embedding to be computed and added to the vocabulary or with an embedding already in the vocabulary and to be updated. A neural network predictor predicts a next text item in the sequence given the context text items and the vocabulary. An online training module updates the vocabulary by using either a direction associated with the predicted next item, or, by comparing the new text item and the predicted next text item.

2. **WO/2018/102203** LANGUAGE DATA PREDICTION WITH NEURAL NETWORKS AND **ONLINE LEARNING**

WO - 07.06.2018

Int.Class **G06F 17/27** ? Appl.No PCT/US2017/062914 Applicant **MICROSOFT** TECHNOLOGY LICENSING, LLC Inventor ORR, Douglas Alexander Harper

A data input system is described for inputting text items to an electronic device. The data input system has a store holding a vocabulary of embeddings of text items, each embedding being a numerical encoding of a text item. The data input system receives user input comprising a sequence of one or more context text items and a new text item, the new text item being a text item with an embedding to be computed and added to the vocabulary or with an embedding already in the vocabulary and to be updated. A neural network predictor predicts a next text item in the sequence given the context text items and the vocabulary. An online training module updates the vocabulary by using either a direction associated with the predicted next item, or, by comparing the new text item and the predicted next text item.

3. **3549031** LANGUAGE DATA PREDICTION WITH NEURAL NETWORKS AND **ONLINE LEARNING**

EP - 09.10.2019

Int.Class **G06F 17/27** ? Appl.No 17818361 Applicant **MICROSOFT** TECHNOLOGY LICENSING LLC Inventor ORR DOUGLAS ALEXANDER HARPER

A data input system is described for inputting text items to an electronic device. The data input system has a store holding a vocabulary of embeddings of text items, each embedding being a numerical encoding of a text item. The data input system receives user input comprising a sequence of one or more context text items and a new text item, the new text item being a text item with an embedding to be computed and added to the vocabulary or with an embedding already in the vocabulary and to be updated. A neural network predictor predicts a next text item in the sequence given the context text items and the vocabulary. An online training module updates the vocabulary by using either a direction associated with the predicted next item, or, by comparing the new text item and the predicted next text item.

4. **110023930** LANGUAGE DATA PREDICTION WITH NEURAL NETWORKS AND **ONLINE LEARNING**

CN - 16.07.2019

Int.Class **G06F 17/27** ? Appl.No 201780073753.7 Applicant **MICROSOFT** TECHNOLOGY LICENSING LLC Inventor ORR DOUGLAS ALEXANDER HARPER

A data input system is described for inputting text items to an electronic device. The data input system has a store holding a vocabulary of embeddings of text items, each embedding being a numerical encoding of a text item. The data input system receives user input comprising a sequence of one or more context text items and a new text item, the new text item being a text item with an embedding to be computed and added to the vocabulary or with an embedding already in the vocabulary and to be updated. A neural network predictor predicts a next text item in the sequence given the context text items and the vocabulary. An online training module updates the vocabulary by using either a direction associated with the predicted next item, or, by comparing the new text item and the predicted next text item.



Patent Family

- ◆ A patent family is all the patents and patent applications resulting from a specific patent application.
- ◆ When one patent application results in several patents in many different countries, all of the patents and applications associated with the original patent application is called the *patent family*.



Right of Priority

- ◆ It provides that an application from one contracting State shall be able to use its first filing date (in one of the contracting States) as the effective filing date in another contracting State, provided that the applicant files another application within 12 months (for patents and utility models) from the first filing.

Paris Convention for Protecting Industrial Property
Patent Cooperation Treaty



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Structured Search


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137,999,804 Patents (77,045,212 Simple Families)


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
Hide Query Details Search Scholar














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Inventors

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Agents & Attorneys

Legal Status

Document Type

Cited Works

Biologicals

Classifications

Document Family

Query Tools

New Patent Search

Patents (137,999,804) = All Docs

Filters: No filters applied

	Patent Records	Simple Families	Extended Families	Cites Patents	Cited By Patents	Patent Citations
<	136,994,672	77,045,212	73,905,757	40,215,585	48,069,065	358,874,096

Structured Search

Query Text Editor

Profiles

Field

Predicate: ☒ AND ☐ OR

All Fields

e.g. malaria

+

Date Range

Classifications

ORCID Lookup

Jurisdictions

Document Type

Query Language

Other Options

Search

Data Set

Search Tips

Fields

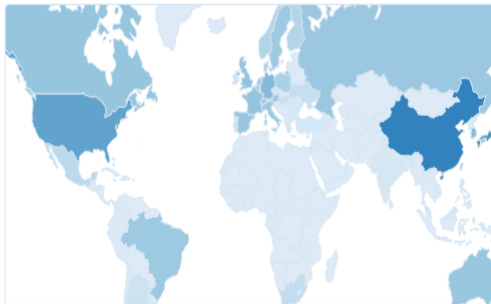
Presets

Patent Data Set

Last updated: Feb 10, 2022 (Release 202206)

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Stats on patent sequence data can be found in [PatSeq Data](#) and are on monthly basis at present time.





Patent Lens exercise:

- ◆ Search for Australian patent on sailing boat
- ◆ Search for Indian patents on AIDS(or HIV) vaccine and filed since 2011.

Exercise 1

Structured Search

Query Text Editor

Profiles

Field

Predicate: ☒ AND ☐ OR

Title, Abstract or Claims



sailing boat



Date Range

Classifications

ORCID Lookup

Jurisdictions

☐ Algeria

☐ Armenia

☐ Belarus

☐ Brazil

☐ Chile

☐ Congo

☐ ARIPO Patents

☒ Australia

☐ Belgium

☐ Bulgaria

☐ China

☐ Costa Rica

☐ Argentina

☐ Austria

☐ Bosnia and Herzegovina

☐ Canada

☐ Colombia

☐ Croatia

- FILTERS
- Date Range

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Cited Works

Biologicals

Classifications

Document Family

Query Tools

New Structured Search

Patent Search Results

Hide Query Details Edit Search Search Scholar

Patents (71) = (Title: sailing AND boat) OR (Abstract: sailing AND boat) OR Claims: sailing AND boat)

Filters: Jurisdiction = Australia

Patent Records	Simple Families	Extended Families	Cites Patents	Cited By Patents	Patent Citations
71	53	53	17	3	6

Patents Cited Works

Table List Analysis

Expand

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Family Options

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Sort by Relevance

☐ A method for controlling the deformation of a surface of a sail of a sailing boat during a direction change manoeuvre

AU 2005/339093 B2

Granted Patent

Family: 13s / 13ex

Family Jurisdictions: AT, US, WO, EP, DE, AU, ES, NZ

Legal Status: Inactive

#

Application No: 2005339093 Filed: Dec 13, 2005 Published: Sep 1, 2011 Earliest Priority: Dec 13, 2005 Granted: Sep 1, 2011

Applicants: Pirelli & C Spa

Inventors: Caretta Renato, Ponta Thomas Mattia Mauro, Puppi Cristiano, Plantanida Pier Giuseppe

Cited Works: 0 Cited by: 0 Cites: 2 052-396-281-428-281

Additional Info:

Inactive

Abstract

Prosecution Stage: There is described a method for controlling the deformation of a surface of a sail (1) of a sailing ... boat (100) during a direction change manoeuvre, said method comprising the step of arranging ... of carrying out a manoeuvre for changing the direction of the sailing boat (100), wherein in a first

☐ Sailing boat comprising an inverted u-shaped mast

AU 2019/319120 A1

Patent Application

Family: 8s / 8ex

Family Jurisdictions: EP, AU, JP, CN, US, KR, IT, WO

Legal Status: Pending

#

Application No: 2019319120 Filed: Aug 5, 2019 Published: Mar 25, 2021 Earliest Priority: Aug 10, 2018

Applicants: Stramba S R L

Inventors: Mingucci Daniele

Cited Works: 0 Cited by: 0 Cites: 0 043-638-782-794-469

Additional Info:

Pending

Abstract

Prosecution Stage: The present invention relates to a sailing boat characterised in that it comprises ... at least one

Applicants

Harken Italy Spa
6

Mader P
3

Christensen Jan Ar...
2

Guettler Jo
2

Inversail SA
2

Klaus Ketterer
2

Pirelli & C Spa
2

Rasmussen Mariti...
2



Exercise 2

Title, Abstract or Claims

HIV OR AIDS

Title, Abstract or Claims

VACCINE

 Date Range


☐ Published ☒ Filed ☐ Priority


2011-01-01



2022-03-01



 Classifications

 ORCID Lookup

















 Jurisdictions

- ☐  Algeria
- ☐  Armenia
- ☐  Belarus
- ☐  Brazil
- ☐  Chile
- ☐  Congo
- ☐  Czechoslovakia
- ☐  Czech Republic
- ☐  Dominican Republic
- ☐  Egypt
- ☐  European Patents
- ☐  France
- ☐  Germany
- ☐  Honduras
- ☐  Iceland
- ☐  Ireland

- ☐  ARIPO Patents
- ☐  Australia
- ☐  Belgium
- ☐  Bulgaria
- ☐  China
- ☐  Costa Rica
- ☐  Cuba
- ☐  German Democratic Republic
- ☐  Eurasian Patents
- ☐  El Salvador
- ☐  Estonia
- ☐  GCC Patents
- ☐  Greece
- ☐  Hong Kong

☒  India

☐  Israel

- ☐  Argentina
- ☐  Austria
- ☐  Bosnia and Herzegovina
- ☐  Canada
- ☐  Colombia
- ☐  Croatia
- ☐  Cyprus
- ☐  Denmark
- ☐  Ecuador
- ☐  EM European Trademark Office
- ☐  Finland
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- ☐  Italy

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6 Patents (6 Simple Families)

(title:(HIV OR AIDS) OR abstract:(HIV OR AIDS) OR claim:(HIV OR AIDS)) AND (title:(VACCINE) OR abstract:(VACCINE) OR claim:(VACCINE))

Search

FILTERS

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Flags

Jurisdictions

Applicants

Inventors

Owners

Agents & Attorneys

Legal Status

Document Type

Cited Works

Biologicals

Classifications

Document Family

Query Tools

New Structured Search

Patent Search Results

Patents (6) = (Title: (HIV OR AIDS) OR (Abstract: (HIV OR AIDS) OR Claims: (HIV OR AIDS))) AND (Title: (VACCINE) OR (Abstract: (VACCINE) OR Claims: (VACCINE)))

Filters: Application Filing Date = (2011-01-01 - 2022-03-01) Jurisdiction = (India)

Patent Records

Simple Families

Extended Families

Cites Patents

Cited By Patents

Patent Citations

Patents

Cited Works

Table

List

Analysis

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Family Options

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Sort by Relevance

Vaccine

IN 2774KON2014 A

Patent Application

Family: 22s / 22ex

Family Jurisdictions: AU, US, CA, EA, WO, IN, MX, IL, EP, JP ... 3 More

Legal Status: Pending

Application No: 2774KON2014

Filed: Dec 2, 2014

Published: May 8, 2015

Earliest Priority: Jun 6, 2012

#

Applicants: Bionor Immuno As

Inventors: Høie Lars, Lundemose Anker, Økvist Mats, Hovden Arnt Ove, Grønvold Maja Sommerfelt, Hansen Vidar Wendel, Sørensen Birger

Cited Works: 0

Cited by: 0

Cites: 0

050-369-112-735-938

Additional Info:

Pending

Abstract

Prosecution Stage: of retrovirus infections including HIV infections and AIDS. In particular, the present invention relates

Immunogens For Hiv Vaccination

IN 6164DEN2014 A

Patent Application

Family: 42s / 42ex

Family Jurisdictions: WO, HK, RU, AU, CN, KR, EP, IL, NZ, US ... 5 More

Legal Status: Pending

Application No: 6164DEN2014

Filed: Jul 22, 2014

Published: Aug 21, 2015

Earliest Priority: Jan 27, 2012

#

Applicants: Esteve Labor Dr, Fundació Privada Inst De Recerca De La Sida Caixa, Institutió Catalana De Recerca I Estudis Avançats

Inventors: Brander Christian, Mothe Pujadas Beatriz, Llano Anuska

Cited Works: 0

Cited by: 0

Cites: 0

060-126-878-100-895

Additional Info:

Pending

Abstract

Applicants

Esteve Labor Dr

2

Fundació Privada I...

2

Bionor Immuno As

1

Innavirvax

1

Institució Catalana...

1

M S Indian Council ...

1

Network Immunol...

1

Inventors



Contact details:

Liang liming

Email:lianglm@smu.edu.cn



Thank You !



Reference:

- ◆ <http://www.patentlens.net/daisy/patentlens/patentlens.html>
- ◆ <http://www.jpo.go.jp/>
- ◆ <http://www.cnipa.gov.cn/>
- ◆ <http://www.uspto.gov/>
- ◆ <http://www.biology.bnl.gov/patents.html>