

# Fundamentals of U.S. Patent and Trademarks – Searching and Procurement

Laurén S. Murray, Esq.



# **Agenda**

- U.S. Patent Procurement
- Patent Searching
- U.S. Trademark Procurement
- Trademark Searching
- Overlapping Universes of Intellectual property
- Case Studies (time permitting)



## **U.S. Patent Procurement**

- USPTO's Patent Process Overview
- www.uspto.gov/patentsgetting-started/patentprocess-overview

Determine the type of 1 Intellectual Property protection that you need **Determine if your** invention is patentable What kind of patent do vou need? 4 Get ready to apply Prepare and submit your initial application 6 Work with your examiner 7 Receive your approval 8 Maintain your patent

## **Overview of U.S. Patent Procurement Process**

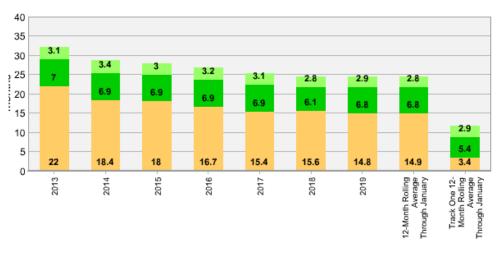
- Prepare application
  - Description
  - Drawings
  - Claims
- Application is Examined
  - Prior Art Search
  - (Usually) Issues Office Action
- File Response
  - Amendments, AND/OR
  - Arguments
- (Possibly) Final Office Action
- (Possibly) Amendment, Request Continued Examination, or Appeal

U.S. Patent Procurement – how long will it take?



www.uspto.gov/dashboards/patents/main.dashxml

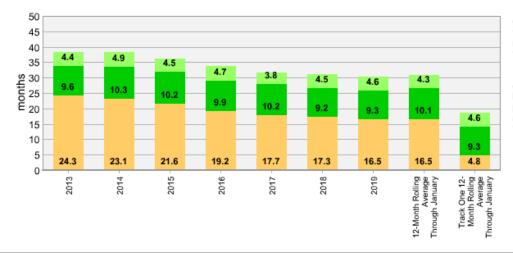
#### Office Time and Applicant Time - Traditional Total Pendency



Office and applicant time - traditional total pendency represents a detailed look at the traditional total pendency measure, and the Track One Prioritized Examination Process. The data is cumulative for the year and breaks out time into three categories: prosecution time with the office, time awaiting first action, and prosecution time with the applicant.

- Prosecution Time With Office
- Prosecution Time With Applicant
- Time Awaiting First Action

# Office Time and Applicant Time - Traditional Total Pendency Including Requests for Continued Examination (RCEs)



Office and applicant time - traditional total pendency including RCEs represents a detailed look at the traditional total pendency including RCEs measure, and the Track One Prioritized Examination Process. The data is cumulative for the year and breaks out time into three categories: prosecution time with the office, time awaiting first action, and prosecution time with the applicant.

- Prosecution Time With Office
- Prosecution Time With Applicant
- Time Awaiting First Action

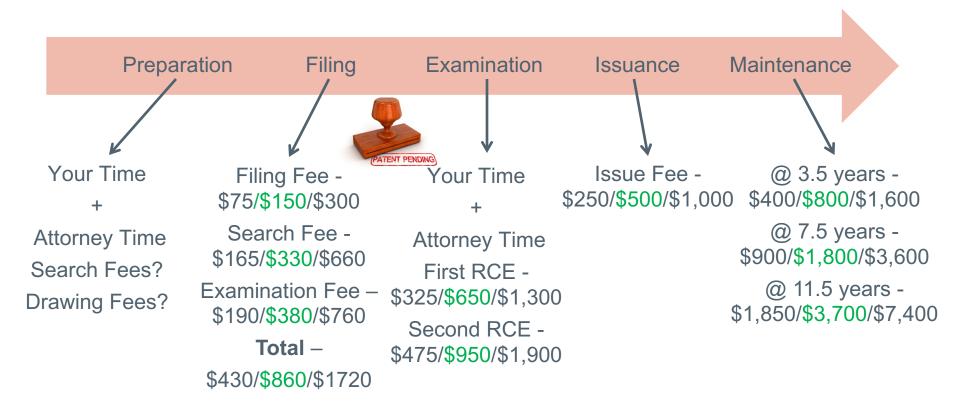


# U.S. Patent Procurement – How much will it cost?





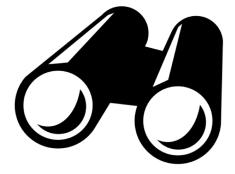
# U.S. Patent Procurement – a financial timeline



- Fees for a U.S. non-provisional patent application without extras fees for claims or pages
- Micro Entity/Small Entity/Large Entity

## **Patent Searching**

- Types of Searches
  - Patentability
  - Validity
  - Infringement
  - Clearance
  - State of the Art
- Tools and Techniques
  - USPTO's Seven Step Search Strategy
  - USPTO Search Example



# Types of Prior Art Searches – Patentability Search

- To determine if an invention is patentable / claim scope
- Look for prior art disclosing the invention or something similar
- Any "public domain" knowledge











10

## **Collecting Information About Inventions**

- Invention Disclosure Form (IDF)
  - Title of the invention
  - Name and contact information for each inventor
  - Field of the invention
  - Current state of the art, including any problems with current solutions
  - Objections and goals of the invention
  - Detailed explanation of the invention, including:
    - Advantages over the current state of the art
    - Alternative embodiments
  - Include drawings, flowcharts, logic diagrams, and electrical schematics
  - Any prior disclosure of the invention
- Interview the Inventor(s)

# **Types of Prior Art Searches – Validity Search**

- To determine the validity of an issued patent
- Look for prior art documents that would invalidate one or more claims in the issued patent



Oct. 23, 2018

# Types of Prior Art Searches – Validity Search (example)

What is claimed is:

1. An apparatus, comprising:

a vehicle ("ego-vehicle") configured to be autonomously navigated in a peloton along a roadway, wherein the peloton comprises the ego-vehicle and at least one additional vehicle, wherein the ego-vehicle comprises: a vehicle navigation system which is configured to:

based on a comparison of driving ranges of each of the ego-vehicle and the at least one additional vehicle, determine a particular configuration of the peloton, which comprises a particular peloton position in which the ego-vehicle is navigated relative to the at least one additional vehicle, which reduces a difference of the relative driving ranges of the ego-vehicle and the at least one additional vehicle; and

generate a set of control commands which cause the vehicle to be navigated in the peloton at the particular peloton position, according to the particular configuration of the peloton.

#### Related U.S. Application Data

(60) Provisional application No. 62/232,853, filed on Sep. 25, 2015.

### (12) United States Patent Aikin et al.

#### (54) PELOTON

- (71) Applicant: Apple Inc., Cupertino, CA (US)
- (72) Inventors: Randol W. Aikin, Sunnyvale, CA (US);
  Malcolm J. Northcott, Felton, CA
  (US)
- (73) Assignee: Apple Inc., Cupertino, CA (US)
- (\*) 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.: 15/275,160
- (22) Filed: Sep. 23, 2016

#### Related U.S. Application Data

- (60) Provisional application No. 62/232,853, filed on Sep. 25, 2015
- (51) Int. Cl.

  G01S 13:00 (2006.01)

  G01S 13:93 (2006.01)

  G05D 1/00 (2006.01)

  G05D 1/02 (2006.01)

  B00L 11/18 (2006.01)
- CPC ....... G05D 1/0293 (2013.01); B60L 11/1801 (2013.01); B60L 11/1816 (2013.01); G05D 1/0295 (2013.01)
- (58) Field of Classification Search CPC ..... G05D 1/00; G05D 1/0293; G05D 1/0295;

B60L 11/00; B60L 11/1801; B60L 11/1816; G01C 21/00; G01C 21/26; G01C 21/34; G08G 1/22

See application file for complete search history.

#### (10) Patent No.: US 10,108,202 B1

(45) Date of Patent:

#### References Cited

#### U.S. PATENT DOCUMENTS

6,032,097 A *	2/2000	Iihoshi G08G 1/22
		180/168
6,813,561 B2 *	11/2004	MacNeille G01C 21/26
		342/357.34
8,676,466 B2 *	3/2014	Mudalige G08G 1/22
		370/252
8,774,981 B2 *	7/2014	Paz-Meidan B25J 5/00
		700/245
9,396,661 B2 *		Okamoto G08G 1/22
9,799,224 B2 *		Okamoto G08G 1/22
2004/0193372 A1*	9/2004	MacNeille G01C 21/26
		701/468
2014/0210646 A1*	7/2014	Subramanya B61L 29/28
		340/928

\* cited by examiner

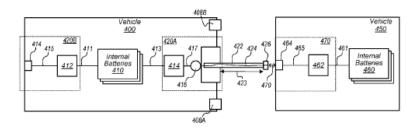
(56)

Primary Examiner — Yonel Beaulieu
(74) Attorney, Agent, or Firm — Robert C. Kowert;
Meyertons, Hood, Kiylin, Kowert & Goetzel, P.C.

#### (57) ABSTRACT

A vehicle configured to be autonomously navigated in a peloton along a roadway, wherein the peloton comprises at least the vehicle at least one additional vehicle, is configured to determine a position of the vehicle in the peloton which reduces differences in relative driving ranges among the vehicles included in the peloton. The vehicles can dynamically adjust peloton positions while navigating to reduce driving range differences among the vehicles. The vehicle can include a power management system which enables the vehicle to be electrically coupled to a battery included in another vehicle in the peloton, so that driving range differences between the vehicles can be reduced via load sharing via the electrical connection. The vehicle can include a power connector arm which extends a power connector to couple with an interface of another vehicle.

20 Claims, 5 Drawing Sheets



## Types of Prior Art Searches – Infringement Search

- To determine whether a patent claim would be infringed
- Compare a proposed product or service to non-expired U.S. patents

	Unite	d States Patent	(10) Pate (45) Date				0.108,202 B1 Oct. 23, 2018
(54)	PELOTO	N	(56)		Referen	ces Cited	1
(71)	Applicant:	Apple Inc., Cupertino, CA (US)		U.S.	PATENT	DOCUM	MENTS
(72)	Inventors:	Randol W. Aikin, Sunnyvale, CA (US); Malcolm J. Northcott, Felton, CA	6,032,097	A *	2/2000	Iihoshi	G08G 1/22 180/168
		(US)	6,813,561	B2 *	11/2004	MacNeille	e G01C 21/26 342/357.34
73)	Assignee:	Apple inc., Cupertino, CA (US)	8,676,466	B2 *	3/2014	Mudalige	G08G 1/22 370/252
۰)	Notice:	Subject to any disclaimer, the term of this	8,774,981	B2 *	7/2014	Paz-Meid	lan B25J 5/00 700/245
,	Nonce.	patent is extended or adjusted under 35	9,396,661	B2 *	7/2016	Okamoto	G08G 1/22
		U.S.C. 154(b) by 0 days.	9,799,224				G08G 1/22
		0.5.c. 154(0) by 0 days.	2004/0193372	Al*	9/2004	MacNeille	e G01C 21/26 701/468
21)	Appl. No.:	15075,1	2014/0210646	Al*	7/2014	Subraman	nya B61L 29/28 340/928
22)	Filed:	Sep. 23, 2016	* cited by exa	mine	r		
	D.I	and Maria Barta	Primary Exam	iner-	<ul><li>Yonel</li></ul>	Beaulieu	
	Rei	ated U.S. Application Data	(74) Attorney,	Agen	ut, or Fir.	m — Robe	ert C. Kowert;
60)		l application No. 62/232,853, filed on Sep.	Meyertons, Ho	ood, I	Kivlin, K	owert & 0	Goetzel, P.C.
	25, 2015.		(57)		ARST	RACT	

September 23, 2016 20 years 0 days September 23, 2036

13

# **Types of Prior Art Searches – Clearance Search**

- To determine if an action is a "safe" practice of the prior art ("safe" = reduced risk of patent infringement liability)
- Try to find that the invention has been "dedicated to the public"



- Scope
  - Expired or Lapsed Patents
  - Abandoned Published Patent Applications

# Types of Prior Art Searches – State of the Art Search

- To determine the "lay of the land" in a technical space
- Look at the broad, general inventive concept without specific implementation details



# **USPTO's 7-Step Search Strategy**

- 1. Brainstorm Terms
- 2. Find Cooperative Patent Classification (CPC)
- 3. Verify CPC
- Retrieve Issued U.S. Patents with CPC, Review and Narrow Results
- Review Each Relevant Patent in Depth including References Cited by the Examiner and the Applicant
- 6. Retrieve U.S. Patent Applications with CPC, Review and Narrow Results
- 7. Broaden Your Search

www.uspto.gov/learning-and-resources/support-centers/patent-and-trademark-resource-centers-ptrc/resources/seven



 Invention: Umbrella with a new rib design to eliminate collapsing or inverting due to winds

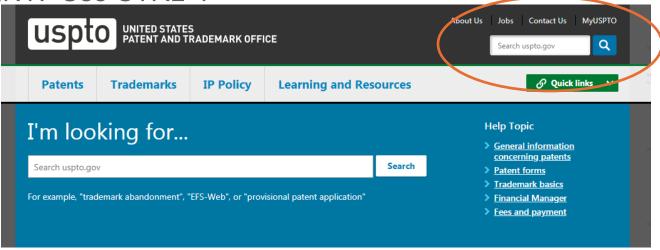
## Step 1: Brainstorm Terms

- Umbrella
- Rib
- Parasol
- Sunshade
- Wind-resistant



### Step 2: Find CPC

- www.uspto.gov
- Search for "CPC scheme umbrella"
- Scan results for the best match: "A45B 25/22 Devices for increasing the resistance of umbrellas to wind"
- HINT: Adjust indentation level
- HINT: Use CTRL+F



### Step 3: Verify Relevancy of CPC

- D A45B 25/20
- D A45B 25/22 D - A45B 25/24
- D A458.25/26
- D A45B 25/28
- D A45B 25/30
- D A45B 27/00
- D A45B 27/02

- . . Windows in covers
- . Devices for increasing the resistance of umbrellas to wind
- . Protective coverings for umbrellas when closed
- . . Ventilated coverings
- . Drip receptacles for umbrellas; Attaching devices therefor
- Name-plates; Badges; Labelling or marking devices; Means for attaching same (attached to the umbrella stick A45B 9/06)

#### Ladies' or like fans

. with mechanical hand-drive

#### A45B 25/22

Devices for increasing the resistance of umbrellas to wind

#### Definition statement

This place covers:







Step 4: Retrieve Issued U.S. Patents with CPC

www.uspto.gov/patent

in Field 1:

in Field 2: All Fields

Search

AND

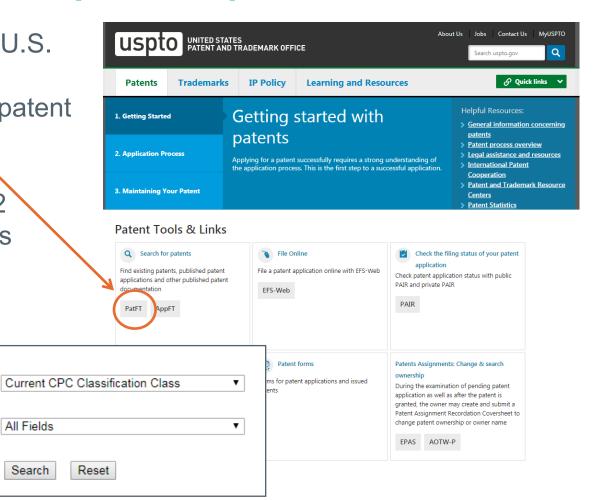
- Use PatFT tool
- Search String: CPC/A45B25/22
- HINT: No spaces

Query [Help]

Term 2:

Term 1: A45B25/22

Select years [Help] 1976 to present [full-text]



# **USPTO Search Example – Step 4 (continued)**

Step 4 (cont.): Review and Narrow Results of >100 patents, including U.S. Patent No. 10,092,069

- HINT: Click "Images"
  Button
- HINT: Click "Full Pages" Button

#### (12) United States Patent Havthornthwaite et al.

(54) UMBRELLA HAVING AN ANTI-INVERSION MECHANISM

(71) Applicant: Shedrain Corporation, Portland, OR (US)

David Haythornthwaite, Fujian Province (CN); Andrew Haythornthwaite, Fujian Province

(73) Assignee: SHEDRAIN CORPORATION, Portland, OR (US)

(\*) 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.: 15/409,088

(22) Filed: Jan. 18, 2017

(65) Prior Publication Data
US 2017/0196324 A1 Jul. 13, 2017

#### Related U.S. Application Data

- (63) Continuation-in-part of application No. 14/614,906, filed on Feb. 5, 2015, now Pat. No. 9,668,553.
- (60) Provisional application No. 62/377,042, filed on Aug. 19, 2016, provisional application No. 62/423,708, filed on Nov. 17, 2016.

(51) Int. Cl.

A45B 25/22 (2006.01)

A45B 25/8 (2006.01)

A45B 25/18 (2006.01)

A45B 25/14 (2006.01)

A45B 25/92 (2006.01)

(52) U.S. Cl.

 (10) Patent No.: US 10,092,069 B2 (45) Date of Patent: Oct. 9, 2018

(56) References Cited

U.S. PATENT DOCUMENTS

864,572	Α		8/1907	Stimmel	
1,167,431	Α		1/1916	Raabe	•
1,369,996	Α		3/1921	Westbeld	,
1,405,824	Α	٠	2/1922	Evans	A45B 25/02
					135/29
1,434,942	Α		11/1922	Brandt	
1,743,043	Α		1/1930	Mclean	
1,964,292	Α		6/1934	Livingston	
2,185,587	Α		1/1940	Carlisle	
			(Con	tinued)	

FOREIGN PATENT DOCUMENTS

CN	2381177	6/2000
DE	390403	2/1924
	(Con	tinued)

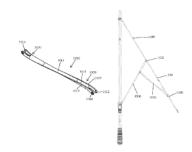
Primary Examiner — Noah Chandler Hawk (74) Attorney, Agent, or Firm — Leason Ellis LLP

#### () ABSTRA

An umbrella has a plurality of ribs attached to a runner by main struts. The umbrella has an anti-inversion mechanism formed of a plurality of anti-inversion struts. Each anti-inversion struts. Each anti-inversion struts and is pivotally coupled to one respective main strut and is pivotally connected to a floating joint member that is freely movable along a length of one respective rib. The anti-inversion mechanism also includes a stop that is fixedly attached to the rib and restricts the degree of travel of the floating joint member along the rib and is positioned to prevent the respective rib from inverting in response to an applied force.

17 Claims, 33 Drawing Sheets

21



Step 5: Review Each Relevant Patent in Depth including References Cited during Examination

HINT: List of the references cited by the Examiner and the Applicant starts on the front page of the patent

Step 6: Retrieve U.S. Patent Applications with CPC, Review and Narrow Results

- Use AppFT tool
- Example: CPC/A45B25/22

U.S. PATENT DOCUMENTS 864.572 A 8/1907 Stimmel 1.167.431 A 1/1916 Raabe 1.369,996 A 3/1921 Westbeld 1.405.824 A \* 2/1922 Evans ...... A45B 25/02 135/291.434.942 A 11/1922 Brandt 1.743.043 A 1/1930 Mclean 1.964,292 A 6/1934 Livingston 2,185,587 A 1/1940 Carlisle (Continued)

References Cited

#### FOREIGN PATENT DOCUMENTS

CN 2381177 6/2000 DE 390403 2/1924 (Continued)

(56)

# **USPTO Search – Step 7**

## Step 7: Broaden Your Search

 Consider inventor(s) and assignees of relevant patents

Searching US Patent Collection ... Results of Search in US Patent Collection db for: AN/shedrain: 16 patents. Hits 1 through 16 out of 16 Jump To Refine Search an/shedrain PAT. NO. Title 1 10,092,069 Umbrella having an anti-inversion mechanism 2 9.756.912 Wind resistant umbrella 3 D789.074 Button for a handle 4 9,668,554 Umbrella having an anti-inversion mechanism 5 9,668,553 Umbrella having an anti-inversion mechanism 6 9.609.926 Umbrella having improved shaft and rib assembly 7 D773,799 Button for a handle 8 9,301,582 Tumbrella having improved shaft and rib assembly 9 D699,543 THandle 10 D691,446 Handle 11 D689,280 Umbrella having reflective material 12 D652,203 Umbrella having reflective material 13 7.996,961 Pliable handle 14 7.634.839 Pliable handle 15 7,234,205 Pliable handle 16 6,968,599 Pliable handle

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

 ${f IN/Hay thorn thwaite}: 33 \ patents.$ 

Refine Search in/Haythornthwaite

Hits 1 through 33 out of 33



PAT. NO.	Title
1 10,092,069	■ <u>Umbrella having an anti-inversion mechanism</u>
2 9,838,749	System and methods for providing content to vehicles
3 <u>9,756,912</u>	Wind resistant umbrella
4 <u>D789,074</u>	Button for a handle
5 <u>9,668,554</u>	■ Umbrella having an anti-inversion mechanism
6 9,668,553	■ Umbrella having an anti-inversion mechanism
7 <u>9,609,926</u>	■ <u>Umbrella having improved shaft and rib assembly</u>
8 <u>D773,799</u>	Button for a handle
9 <u>9,301,582</u>	■ Umbrella having improved shaft and rib assembly
10 8,858,038	Lighting apparatus with peak/flat adjustment
11 <u>D713,637</u>	Pocket umbrella and container
12 <u>D699,543</u>	T <u>Handle</u>
13 <u>D691,446</u>	T <u>Handle</u>
14 <u>8,453,660</u>	Foldable pocket umbrella
15 <u>D481,531</u>	<u> ■ Umbrella handle</u>
16 <u>D466,764</u>	■ Eating utensil
17 <u>6,453,063</u>	Automatic focused ion beam imaging system and method
18 <u>6,288,393</u>	Automated method of circuit analysis
19 <u>5,647,982</u>	▼ <u>Vacuum filter element</u>
20 <u>D343,351</u>	<b>▼</b> Container
21 <u>D309,071</u>	Condiment dispenser
22 <u>4,721,222</u>	Combination beverage can carrier device and drinking accessor
23 <u>4,702,004</u>	■ Glass razor blade and handle
24 <u>4,616,828</u>	Tennis ball
25 <u>4,613,138</u>	Tennis racquet with flexible membrane frame
26 <u>4,597,576</u>	Sports racquet utilizing non-circular strings
27 <u>D283,343</u>	■ <u>Heater</u>
28 <u>D281,810</u>	T Heater

## **USPTO Search – Step 7**

## Step 7: Broaden Your Search

- Keyword Searching
  - HINT: Use OR between synonyms
  - HINT: Place phrases and terms of art in quotation marks
  - HINT: Use truncation symbols (\$)
- Other sources:
  - Search the Espacenet patent database @ <a href="http://worldwide.espacenet.com">http://worldwide.espacenet.com</a>
  - Search Non-Patent Literature Disclosures

((wind AND rib) AND (umbrella OR parasol)): 389 patents. Hits 1 through 50 out of 389 Next 50 Hits Jump To Refine Search (wind AND rib) AND (umbrella OR parasol) PAT. NO. 1 10,101,045 Apparatus for both humidification and air cleaning 2 10,101,044 Humidification and air cleaning apparatus 3 10,092,069 Umbrella having an anti-inversion mechanism 4 10,092,034 ■ Domed water pipe with supporting tray 5 10,088,111 Collapsible LED fixture 6 10,077,893 ■ Removable anchoring system and uses thereof 10,076,400 Embolic protection device and method 8 10,072,858 Apparatus for both humidification and air cleaning 9 10,072,857 Apparatus for both humidification and air cleaning 10 10,054,323 Apparatus for both humidification and air cleaning 11 10.034,491 Domed water pipe with supporting tray 12 10,016,033 Adjustable canopy umbrella with auditory pin locking and centering system 13 9,986,798 Umbrellas with inflatable portions 14 9.968,167 Unique twelve-different-application umbrella system, having pivotable pole 15 9,964,259 Collapsible LED fixture 16 9,943,148 Protector for rib tip of umbrella 17 9,901,149 Canopies and canopy support structures 18 9.861.168 Free arm umbrella 19 9.844.250 Anti-turning umbrella frame 20 9,839,268 Wind-resistant umbrella frame structure 21 9,822,545 Deployable shading structure

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

### K&L GATES

## **Trademarks**

JUST DO IT.®



Int. Cl.: 17

Prior U.S. Cl.: 12

United States Patent and Trademark Office Registered Mi

TRADEMARK PRINCIPAL REGISTER



OWENS-CORNING FIBERGLAS CORPORA-TION (DELAWARE CORPORATION) FIBERGLASS TOWER

FOR: FIBROUS GLASS RESIDENTIAL INSU-LATION, IN CLASS 17 (U.S. CL. 12). FIRST USE 0-0-1956; IN COMMERCE

THE DRAWING IS LINED TO I
THE COLOR PINK.

SER. NO. 247,707, FILED 1-25-1980.

ROBERT PEVERADA, EXAMINING ALLOR-



NBC chimes

United States of America
United States Patent and Trademark Office

NON-VISUAL PLAY-DOH SCENT MARK

Reg. No. 5,467,089

Hasbro, Inc. (RHODE ISLAND CORPORATION)

1027 Newport Avenue

Registered May 15, 2018 Pawtucket, RHODE ISLAND 02862

Int. Cl.: 28 CLASS

CLASS 28: Toy modeling compounds FIRST USE 9-12-1955; IN COMMERCE 9-12-1955

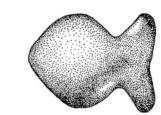
Trademark

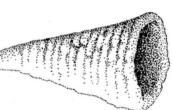
The mark is a scent of a sweet, slightly musky, vanilla fragrance, with slight overtones of

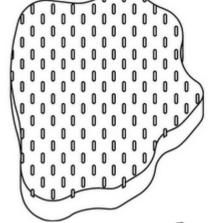
Principal Register cherry, combined with the smell of a salted, wheat-based dough

SEC.2(F)

SER. NO. 87-335.817. FILED 02-14-2017











# **Trade Dress**



## United States of America United States Patent and Trademark Office



Reg. No. 4,277,914

APPLE INC. (CALIFORNIA CORPORATION)

Registered Jan. 22, 2013 #MS 36-4TM

1 INFINITE LOOP

Int. Cl.: 35

CUPERTINO, CA 95014

SERVICE MARK

FOR: RETAIL STORE SERVICES FEATURING COMPUTERS, COMPUTER SOFTWARE, COMPUTER PERIPHERALS, MOBILE PHONES, CONSUMER ELECTRONICS AND RELATED ACCESSORIES, AND DEMONSTRATION OF PRODUCTS RELATING THERETO, IN CLASS

35 (U.S. CLS. 100, 101 AND 102).

PRINCIPAL REGISTER

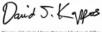
FIRST USE 9-0-2006; IN COMMERCE 9-0-2006.

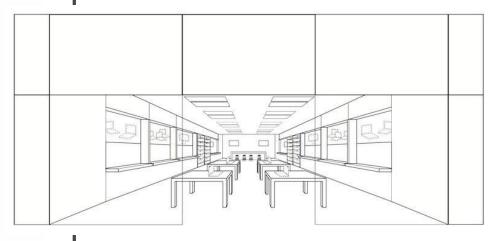
THE MARK CONSISTS OF THE DESIGN AND LAYOUT OF A RETAIL STORE. THE STORE FEATURES A CLEAR GLASS STOREFRONT SURROUNDED BY A PANELED FACADE CONSISTING OF LARGE, RECTANGULAR HORIZONTAL PANELS OVER THE TOP OF THE GLASS FRONT, AND TWO NARROWER PANELS STACKED ON EITHER SIDE OF THE STOREFRONT, WITHIN THE STORE, RECTANGULAR RECESSED LIGHTING UNITS TRAVERSE THE LENGTH OF THE STORE'S CEILING. THERE ARE CANTILEVERED SHELVES BELOW RECESSED DISPLAY SPACES ALONG THE SIDE WALLS, AND RECTANGULAR TABLES ARRANGED IN A LINE IN THE MIDDLE OF THE STORE PAR-ALLEL TO THE WALLS AND EXTENDING FROM THE STOREFRONT TO THE BACK OF THE STORE. THERE IS MULTI-TIERED SHELVING ALONG THE SIDE WALLS, AND A OBLONG TABLE WITH STOOLS LOCATED AT THE BACK OF THE STORE, SET BELOW VIDEO SCREENS FLUSH MOUNTED ON THE BACK WALL. THE WALLS, FLOORS, LIGHTING, AND OTHER FIXTURES APPEAR IN DOTTED LINES AND ARE NOT CLAIMED AS INDIVIDUAL FEATURES OF THE MARK; HOWEVER, THE PLACEMENT OF THE VARIOUS ITEMS ARE CONSIDERED TO BE PART OF THE OVERALL MARK.



SER. NO. 85-036,990, FILED 5-12-2010.

MICHAEL W. BAIRD, EXAMINING ATTORNEY

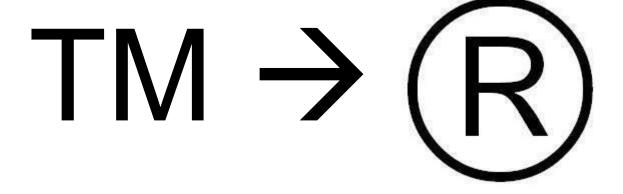






## **Trademark Procurement**

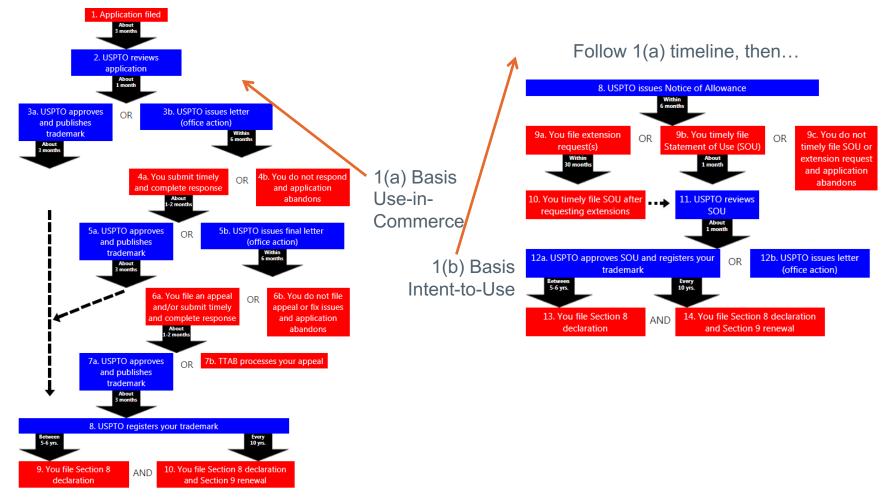
- USPTO's Trademark Process
- www.uspto.gov/trademarks-gettingstarted/trademark-process



- Is a trademark application right for you?
- 2 Get ready to apply
- Prepare and submit your application
- Work with the assigned USPTO examining attorney
  - Receive approval/denial of your application
- 6 Maintain your registration

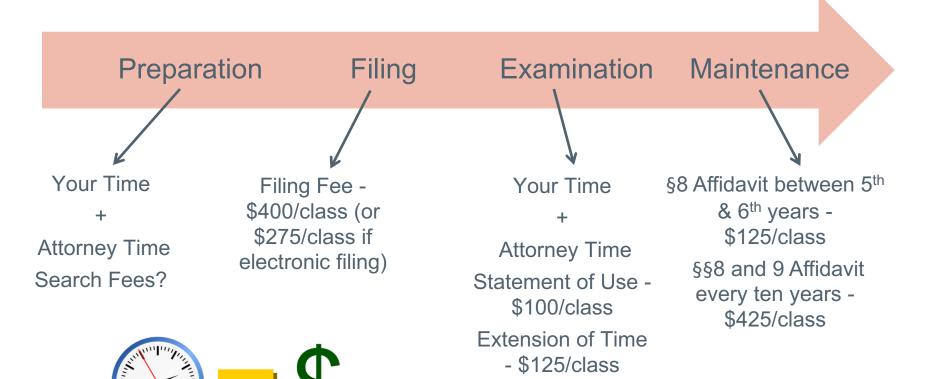


## **Trademark Procurement - flowcharts**



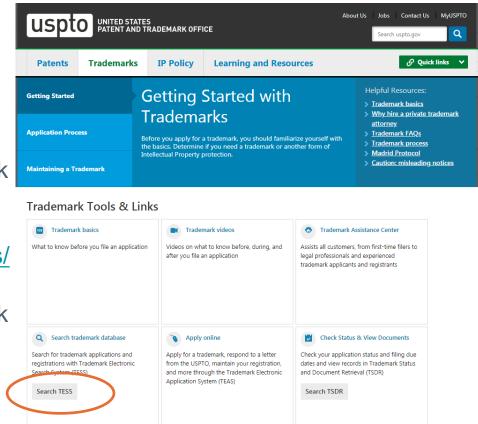
www.uspto.gov/trademark/trademark-timelines/trademark-application-and-post-registration-process-timelines

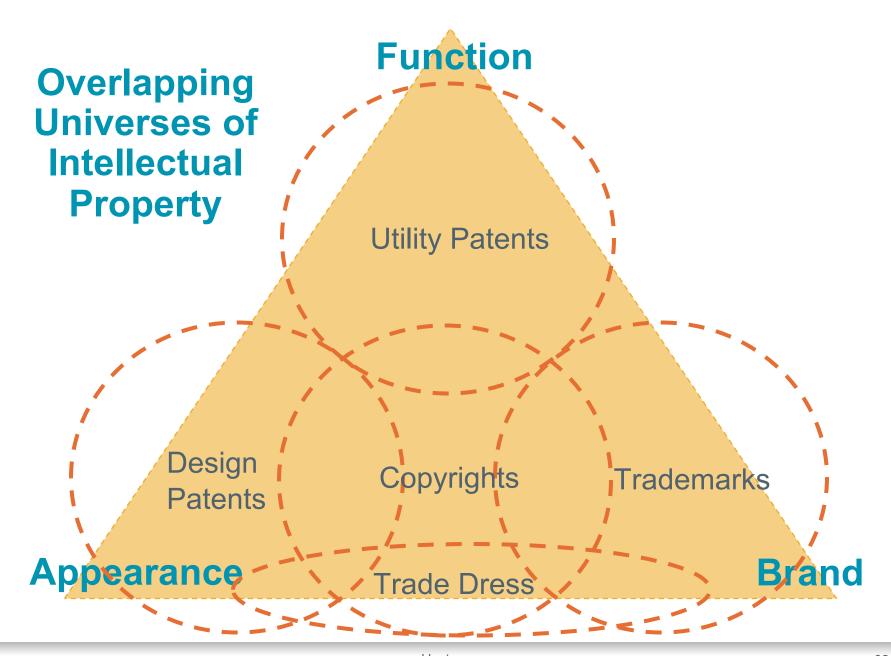
## Trademark Procurement – a financial timeline

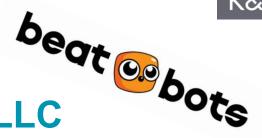


# **Trademark Searching**

- www.uspto.gov/trademark
- Exact mark
- Part(s) of the mark
  - HINT: Try sounds-like searching
  - Combine part(s) of the mark with an International Classification (IC) (Find @ www.wipo.int/classifications/ nice/en/)
  - Combine part(s) of the mark with goods or services
- Other sources: common law use (search online)





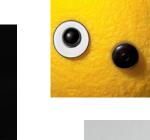


# Case Study #1 – Beatbots LLC

- Founded by a CMU grad student
- Website: <a href="http://beatbots.net/">http://beatbots.net/</a>
- Products and Services
  - Robots
  - Software
  - Apparel
- Intellectual Property







- Utility Patents (search at www.uspto.gov)
- Design Patents (search at www.uspto.gov)
- Trademarks (search at www.uspto.gov)
- Copyrights (search at www.copyright.gov)



## **Beatbots's Brand**



- Trademarks
  - Registered U.S. trademark BEATBOTS in International Classes 9 (electrical and scientific aparatus), 25 (apparel), and 28 (games and playthings)
  - Foreign trademarks
  - Unregistered marks

## **Beatbots's Blennie**

- A wobbling robot that exhibits vestibulo-ocular reflex
- http://beatbots.net/blennie
- Intellectual Property
  - Utility Patent: U.S. Patent No. 9,358,475, which claims priority to a provisional patent application
  - Design Patent: U.S. Design Patent No. D714,881
  - Trademarks?
  - Copyright?
  - Trade Dress?





### (12) United States Patent Michalowski et al.

(10) Patent No.: (45) Date of Patent: US 9,358,475 B2 Jun. 7, 2016

#### (54) ROBOT

(71) Applicant: Beatbots, LLC, San Francisco, CA (US)

(72) Inventors: Marek P. Michalowski, San Francisco, CA (US); Gregory R. Katz, San Francisco, CA (US); Thiago G. Hersan, Pittsburgh, PA (US); Alea C. Teeters, Deby City, CA (US)

Daly City, CA (US)

(73) Assignee: BEATBOTS, LLC, San Francisco, CA

(US)

(\*) 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.: 14/568,821

(22) Filed: Dec. 12, 2014

(65) Prior Publication Data

US 2015/0165336 A1 Jun. 18, 2015

#### Related U.S. Application Data

(60) Provisional application No. 61/915,249, filed on Dec. 12, 2013.

(51) Int. Cl.

A63H 13/18 (2006.01)

A63H 29/22 (2006.01)

A63H 13/00 (2006.01)

A63H 15/06 (2006.01)

(52) U.S. Cl.

(58) Field of Classification Search

#### (56) References Cited

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D714,881	S	10/2014	Michalowski et al.		
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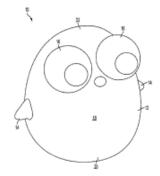
Primary Examiner - Nini Legesse

(74) Attorney, Agent, or Firm - K&L Gates LLP

#### (57) ABSTRACT

A robot is disclosed. The robot can comprise a body comprising a curved base and a multi-directional center of mass
shifter assembly positioned within the body. The multi-directional center of mass shifter assembly can comprise a weight,
a first actuator drivingly coupled to the weight, and a second
actuator drivingly coupled to the first actuator. Actuation of
the first actuator can be configured to rotate the weight relative to a first axis, and actuation of the second actuator can be
configured to rotate the weight relative to a second axis,
which is transverse to the first axis. The robot can comprise an
inertial measurement unit, a controller, and/or an eye movable
relative to the body. The position of the eye can be adjusted by
an eye actuation assembly.

#### 14 Claims, 12 Drawing Sheets



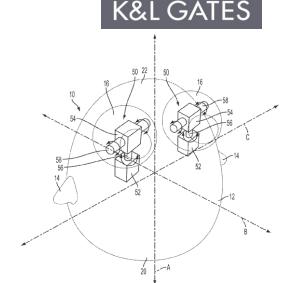


FIG. 5

11. A robot, comprising:

a body comprising an inertial measurement unit, wherein the inertial measurement unit is configured to detect a direction of movement of the body;

an eye movable relative to the body, wherein the eye comprises an actuation assembly comprising:

a first actuator comprising a first output drive; a second actuator coupled to the first output drive, wherein the second actuator comprises a second output drive, and wherein the second output drive is transverse to the first output drive; and

a controller in communication with the inertial measurement unit and the actuation assembly, wherein the controller is configured to control the actuation assembly to move the eye in the opposite direction of the direction of movement of the body detected by the inertial measurement unit.

## (12) United States Design Patent (10) Patent No.:

(10) Patent No.: (45) Date of Patent: US D714,881 S \*\* Oct. 7, 2014

## K&L GATES

(54) TOY

(71) Applicant: BeatBots LLC, San Francisco, CA (US)

(72) Inventors: Marek Piotr Michalowski, San Francisco, CA (US); Gregory R. Katz,

Deerfield, IL (US)

(73) Assignee: Beatbots LLC, San Francisco, CA (US)

(\*\*) Term: 14 Years

Michalowski et al.

(21) Appl. No.: 29/473,682

(22) Filed: Nov. 25, 2013

(51) LOC (10) Cl. ...... 21-01

(52) U.S. Cl.

USPC ...... D21/576; D21/606; D21/623

(58) Field of Classification Search
 USPC ......... D6/598; D11/158; D21/576-585, 597,

D21/604-608, 622-623, 630, 658-659; 446/72-73, 97-98, 268, 369; D30/160 See application file for complete search history.

(56) References Cited

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D403,368 S	*	12/1998	Brown D21/576		
D419,209 S		1/2000	Hampton et al D21/658		
D546,906 S	*	7/2007	Aliaga D21/630		
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D620,992 S		8/2010	Haug D21/630		
D663,790 S	*	7/2012	Williams D21/606		
* cited by examiner					

Primary Examiner - Sandra Morris

(74) Attorney, Agent, or Firm — K&L Gates LLP

7) CLAIM

The ornamental design for a toy, as shown and described.

#### DESCRIPTION

FIG. 1 is a front-left perspective view of a toy.

FIG. 2 is a front elevation view thereof.

FIG. 3 is a rear elevation view thereof.

FIG. 4 is a left elevation view thereof.

FIG. 5 is a right elevation view thereof.

FIG. 6 is a top plan view thereof.

FIG. 7 is a bottom plan view thereof.

FIG. 8 is a front-left perspective view of a second embodiment of the toy;

FIG. 9 is a front elevation view thereof.

FIG. 10 is a front elevation view thereof in an alternate posi-

tion.

FIG. 11 is a front elevation view thereof in a second alternate position.

FIG. 12 is a front elevation view thereof in a third alternate position.

FIG. 13 is a rear elevation view thereof.

FIG. 14 is a left elevation view thereof.

FIG. 15 is a right elevation view thereof.

FIG. 16 is a top plan view thereof.

FIG. 17 is a bottom plan view thereof.

FIG. 18 is a front-left perspective view of a third embodiment of the toy;

FIG. 19 is a front elevation view thereof.

FIG. 20 is a rear elevation view thereof.

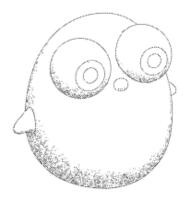
FIG. 21 is a left elevation view thereof.

FIG. 22 is a right elevation view thereof.

FIG. 23 is a top plan view thereof; and, FIG. 24 is a bottom plan view thereof.

In all figures, broken lines illustrate environmental structures and form no part of the claimed design.

1 Claim, 24 Drawing Sheets



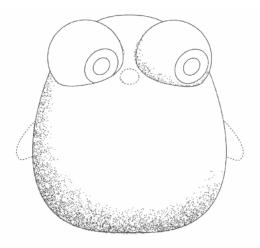


FIG. 11

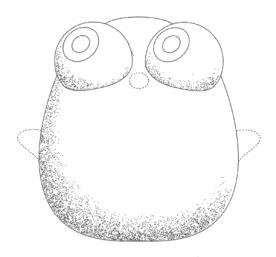
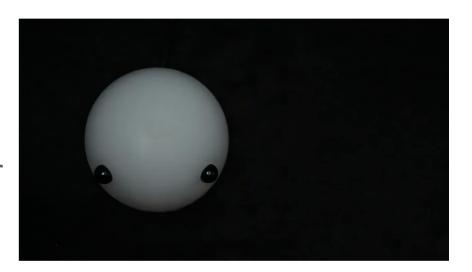


FIG. 12

# **Beatbots's Ploomi**

- A glowing, touch-sensitive, interactive robotic character
- http://beatbots.net/ploomi
- Intellectual Property
  - Utility Patent: U.S. Patent No. 9,421,688, which claims priority to a provisional patent application
  - Design Patent: U.S. Design Patent No. D714,883
  - Trademarks?
  - Copyright?
  - Trade Dress?





### (12) United States Patent Michalowski et al.

(54) ROBOT

(71) Applicant: Beatbots, LLC, San Francisco, CA (US)

(72) Inventors: Marek P. Michalowski, San Francisco, CA (US); Gregory R. Katz, San Francisco, CA (US); Thiago G. Hersan, Pitsburgh, PA (US)

(73) Assignee: Beatbots, LLC, San Francisco, CA (US)

(\*) 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.: 14/568,846

(22) Filed: Dec. 12, 2014

(65) Prior Publication Data

US 2015/0165625 A1 Jun. 18, 2015

#### Related U.S. Application Data

(60) Provisional application No. 61/915,253, filed on Dec. 12, 2013.

(51) Int. Cl. B25J 9/16 (2006.01) G06N 3/00 (2006.01)

(52) U.S. CI. CPC ..... B25J 9/1694 (2013.01); G05B 2219/40253 (2013.01); G05B 2219/40414 (2013.01); G05B 2219/40625 (2013.01); G06N 3/008 (2013.01); Y10S 901/47 (2013.01); Y10S 901/50 (2013.01)

#### (56) References Cited

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			324/661
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			179/19 00

### (10) Patent No.: US 9,421,688 B2

(45) Date of Patent: Aug. 23, 2016

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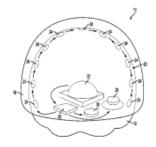
\* cited by examiner

Primary Examiner — Nicholas Kiswanto (74) Attorney, Agent, or Firm — K&L Gates LLP

#### (57) ABSTRACT

A robot is disclosed. The robot can comprise a body and an emotion-expressing system. The emotion-expressing system can comprise a touch sensor embedded within the body, a feedback generator, and a controller in communication with the touch sensor and the feedback generator. The controller can be configured to determine the emotional state of the robot based on feedback from the touch sensor, and the feedback generator can be configured to generate feedback indicative of the emotional state.

#### 20 Claims, 6 Drawing Sheets





Calm/content

VALENCE

FIG. 6

Sad

FIG. 1

1. An emotionally-expressive robot configured to respond to touches by an interactant, wherein the emotionally-expressive robot comprises:

a body comprising a deformable portion and a non-planar outer surface; and

an emotion-expressing system, comprising:

an internal touch sensor embedded within the body, wherein the deformable portion of the body is positioned intermediate the internal touch sensor and at least a portion of the non-planar outer surface, and wherein the internal touch sensor is configured to detect externally-applied forces at a plurality of non-planar locations on the non-planar outer surface through the deformable portion;

a feedback generator; and

a controller in communication with the internal touch sensor and the feedback generator, wherein the controller is configured to determine an emotional state of the robot based on feedback from the internal touch sensor, and wherein the feedback generator is configured to generate feedback indicative of the emotional state.

## **K&L GATES**

#### D449,083 S \* 10/2001 Choh et al. D546,906 S \* 7/2007 Aliaga .... D21/597 (54) TOY D21/630 D598,507 S \* 8/2009 Manzanares D21/623 (71) Applicant: BeatBots LLC, San Francisco, CA (US) \* cited by examiner Inventors: Marek Piotr Michalowski, San Primary Examiner — Sandra Morris Francisco, CA (US); Gregory R. Katz, (74) Attorney, Agent, or Firm - K&L Gates LLP Deerfield, IL (US); Thiago Galvao Hersan, Oakland, CA (US) CLAIM The ornamental design for a toy, as shown and described. (73) Assignee: Beatbots LLC, San Francisco, CA (US) DESCRIPTION 14 Years FIG. 1 is a front-right perspective view of a toy. FIG. 2 is a rear-right perspective view thereof. Appl. No.: 29/473,694 FIG. 3 is a front elevation view thereof. FIG. 4 is a rear elevation view thereof. Nov. 25, 2013 FIG. 5 is a left elevation view thereof. (51) LOC (10) CL ... ..... 21-01 FIG. 6 is a right elevation view thereof. U.S. Cl. FIG. 7 is a top plan view thereof. USPC D21/597; D21/576 FIG. 8 is a bottom plan view thereof. Field of Classification Search FIG. 9 is a front-left perspective view of a second embodi-... D6/598; D11/158; D21/576-585, 597, ment of the toy. D21/622-623, 630, 658-659; 446/72-73, FIG. 10 is a front elevation view thereof. 446/97-98, 268, 369; D30/160 FIG. 11 is a rear elevation view thereof. See application file for complete search history. FIG. 12 is a left elevation view thereof. FIG. 13 is a right elevation view thereof. (56)References Cited FIG. 14 is a top plan view thereof; and, FIG. 15 is a bottom plan view thereof. U.S. PATENT DOCUMENTS In all figures, broken lines illustrate environmental structures

D21/601

D21/578

D21/578

(45) Date of Patent:

(12) United States Design Patent (10) Patent No.:

Michalowski et al.

D191,496 S \* 10/1961 Damiani

D268,942 S \* 5/1983 Lucas et al.

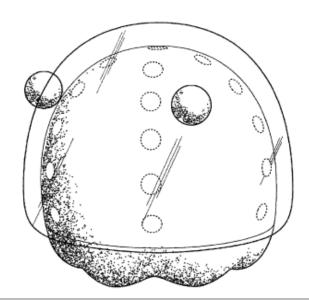
D446,830 S \* 8/2001 Choh et al.



and form no part of the claimed design.

US D714,883 S

Oct. 7, 2014



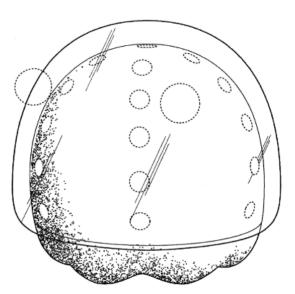


FIG. 1

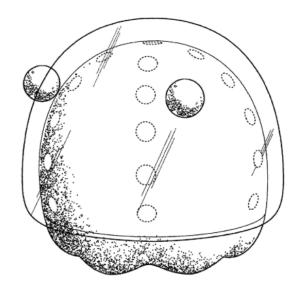


FIG. 9

# Beatbots's metrognōm

- A metronome and a metrognome
- http://beatbots.net/metrognom
- Intellectual Property
  - Design Patent: U.S. Design Patent No. D714,888
  - Trademarks?
  - Copyright Registration Nos. VAu001149651 (color drawing), VAu001149660 (line drawing), VAu001149726 (sculpture)
  - Trade Dress?



# K&L GATES

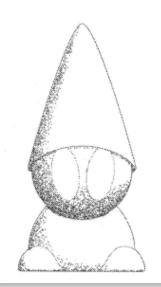
### (12) United States Design Patent (10) Patent No.: Kasznica et al.

(45) Date of Patent:

US D714,888 S \*\* Oct. 7, 2014

тоу		D496,077 S * 9/2004 Rutherford et al		
Applicant: BeatBots LLC	, San Francisco, CA (US)	D504,708 S * 5/2005 Wang		
Marek Piotr M Francisco, CA Deerfield, IL (U	fichalowski, San (US); Gregory R. Katz, JS)	D546,906 S * 7/2007 Aliaga		
Term: 14 Years		(57) CLAIM		
Appl. No.: 29/473,688		The ornamental design for a toy, as shown and described.		
Filed: Nov. 25, 2013	21-01	DESCRIPTION		
U.S. CL. CPC	A63H 3/00 (2013.01) D21/630 arch	<ul> <li>FIG. 1 is a front-left perspective view of a toy.</li> <li>FIG. 2 is a front elevation view thereof.</li> <li>FIG. 3 is a front elevation view thereof in an alternate position.</li> <li>FIG. 4 is a front elevation view thereof in a second alternate position.</li> <li>FIG. 5 is a rear elevation view thereof.</li> <li>FIG. 6 is a left elevation view thereof.</li> <li>FIG. 7 is a right elevation view thereof.</li> </ul>		
		FIG. 8 is a top plan view thereof; and, FIG. 9 is a bottom plan view thereof. In all figures, broken lines illustrate environmental structures and form no part of the claimed design.		
		1 Claim, 9 Drawing Sheets		
	Applicant: BeatBots LLC Inventors: Justine Kaszni Marek Piotr A Francisco, CA Deerfield, IL (U Assignee: Beatbots LLC. Term: 14 Years Appl. No.: 29/473,688 Filed: Nov. 25, 2013 LOC (10) Cl. U.S. Cl. CPC. USPC. Field of Classification Sea CPC. USPC. D21/623 D21/643-649, 65 See application file for con References G U.S. PATENT DOC D311,430 S * 10/1990 Pari	Applicant: BeatBots LLC, San Francisco, CA (US)  Inventors: Justine Kasznica, Pittsburgh, PA (US); Marek Piotr Michalowski, San Francisco, CA (US); Gregory R. Katz, Deerfield, IL (US)  Assignee: Beatbots LLC, San Francisco, CA (US)  Term: 14 Years  Appl. No.: 29/473,688  Filed: Nov. 25, 2013  LOC (10) Cl. 21-01  U.S. Cl. CPC 463H 3/00 (2013.01)  USPC A63H 3/00  Field of Classification Search CPC A63H 3/00  USPC D21/621, 623–625, 628, 630–640, D21/643–649, 659; 446/268, 360, 361, 376,		

#### 1 Claim, 9 Drawing Sheets



# Case Study #2: Uber Technologies Inc.

- Provider of a mobile application that allows users to request transportation services and automatically sends the closest available Uber driver to the user
- Founded in 2009
- Currently available in over 60 countries
- www.uber.com



# **Uber's Intellectual Property**

- Issued U.S. Utility Patents
- Issued U.S. Design Patents
- Issued foreign patents (Canada and Europe)
- Pending U.S. and foreign patent applications
- Registered U.S. Trademarks, including:
  - UBER
  - UBEREATS
  - UBERRUSH
  - UBERX
  - EVERYONE'S PRIVATE DRIVER
  - UBERCAB



# (12) United States Patent Zych

(10) Patent No.: US 10,156,849 B1

(45) Date of Patent: Dec. 18, 2018

## K&L GATES

#### (54) HUMAN SUPERVISION OF AN AUTOMATED DRIVING SYSTEM

- (71) Applicant: Uber Technologies, Inc., San Francisco, CA (US)
- (72) Inventor: Noah Zych, Pittsburgh, PA (US)
- (73) Assignee: Uber Technologies, Inc., San Francisco, CA (US)
- (\*) 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.: 15/638,739
- (22) Filed: Jun. 30, 2017
- (51) Int. Cl. G05D 1/00 (2006.01) G05D 1/02 (2006.01) G06Q 10/06 (2012.01)
- (52) U.S. Cl. CPC ..... G05D 1/0214 (2013.01); G06Q 10/06315 (2013.01)
- (56) References Cited

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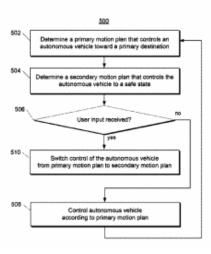
\* cited by examiner

Primary Examiner — Adam D Tissot (74) Attorney, Agent, or Firm — Dority & Manning, PA

#### (57) ABSTRACT

The present disclosure provides systems and methods that enable human supervision of a highly capable automated driving system. In particular, the systems and methods of the present disclosure enable a human (e.g., a passenger, driver/operator, or remote supervisor of an autonomous vehicle) to easily and quickly transition control of the autonomous vehicle from a primary motion plan that controls the vehicle towards a primary destination to a secondary motion plan that controls the vehicle to a safe state. As such, the systems and methods of the present disclosure enable advanced human supervision of autonomous vehicle behavior in which a human can cause an autonomous vehicle to operate in a risk-reduced manner or otherwise maneuver to a safe state, without requiring the human to actually assume manual control of the vehicle.

#### 18 Claims, 4 Drawing Sheets



46

# Independent Claim 1 in U.S. Patent No. 10,156,849

What is claimed is:

1. A computing system, comprising:

one or more processors; and

one or more non-transitory computer-readable media that collectively store instructions that, when executed by the one or more processors, cause the computing system to perform operations, the operations comprising:

prior to receiving a user input:

determining a primary motion plan that controls an autonomous vehicle towards a first destination;

determining a secondary motion plan that controls the autonomous vehicle to a second destination that is different than the first destination; and

controlling the autonomous vehicle according to the primary motion plan;

receiving the user input; and

in response to receipt of the user input, switching a control of the autonomous vehicle from the primary motion plan to the secondary motion plan that was determined prior to receipt of the user input;

wherein the computing system comprises multiple redundant motion planning systems, the multiple redundant motion planning systems comprising:

a primary motion planning system that determines the primary motion plan; and

a secondary motion planning system that determines the secondary motion plan; and

wherein the primary motion planning system and the secondary motion planning system share sensor data but separately determine the primary motion plan and the secondary motion plan.

### (12) United States Design Patent (10) Patent No.:

Hilhorst et al.

US D837,229 S

(45) Date of Patent:

Jan. 1, 2019

#### (54) COMPUTING DEVICE DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE FOR PROVIDING GEOGRAPHIC-BASED SERVICE INFORMATION

- (71) Applicant: Uber Technologies, Inc., San Francisco, CA (US)
- [72] Inventors: Didier Patrick Hilhorst, San Francisco, CA (US); Bryant Jow, San Francisco, CA (US); Peter Ng, San Francisco, CA
- (73) Assignce: Uber Technologies, Inc., San Francisco, CA (US)
- 15 Years Term:
- (21) Appl. No.: 29/578,954

(22)	Filed:	Sep.	26, 2016	
(51)	LOC (11)	Cl.		14-04

52)	U.S. C	
		 D14/485

Field of Classification Search D14/485-495 CPC ...... G01C 21/3664; G06F 3/0482; G06F

See application file for complete search history.

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Primary Examiner - Richelle G Shelton

(74) Attorney, Agent, or Firm - Mahamedi IP Law LLP

#### CLAIM

The ornamental design of a computing device display screen with graphical user interface for providing geographic-based service information, as shown and described.

#### DESCRIPTION

The FIGURE illustrates a computing device display screen with graphical user interface for providing geographic-based service information.

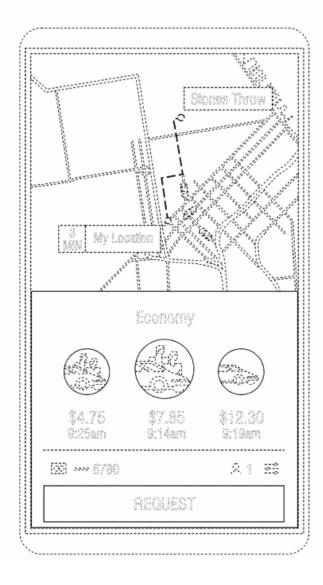
The broken lines, which depict the computing device and a portion(s) or element(s) of a graphical user interface, are provided for the purpose of illustrating environment and/or context, and form no part of the claimed design.

#### 1 Claim, 1 Drawing Sheet



## **K&L GATES**

U.S. Patent US D837,229 S Jan. 1, 2019



## (12) United States Design Patent (10) Patent No.:

US D760,283 S

#### Horiuchi et al.

(45) Date of Patent:

\*\* Jun. 28, 2016

#### (54) COMPUTING DEVICE DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE

(71) Applicant: UBER TECHNOLOGIES, INC., San Francisco, CA (US)

(72) Inventors: Carol Horiuchi, Brisbane, CA (US); Shalin Amin, San Francisco, CA (US)

(73) Assignee: Uber Technologies, Inc., San Francisco, CA (US)

(\*\*) Term: 14 Years

(21) Appl. No.: 29/509,772

(22) Filed: Nov. 20, 2014 (51) LOC (10) CL ...... (52) U.S. Cl.

D14/489 USPC . (58) Field of Classification Search

USPC . D14/485-495 CPC ... G06F 3/048; G06F 3/0481; G06F 3/04812; G06F 3/04815; G06F 3/04817; G06F 3/0482; G06F 3/0483: G06F 3/0484: G06F 3/04842: G06F 3/04845; G06F 3/04847; G06F 3/0485; G06F 3/04855; G06F 3/0486; G06F 3/0487; G06F 3/0488; G06F 3/04883; G06F 3/04886 See application file for complete search history.

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Primary Examiner — Melanie H Tung Assistant Examiner - Bao-Yen Nguyen

(74) Attorney, Agent, or Firm - Mahamedi Paradice LLP

#### CLAIM

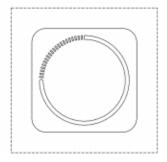
The ornamental design for a computing device display screen with graphical user interface, as shown and described.

#### DESCRIPTION

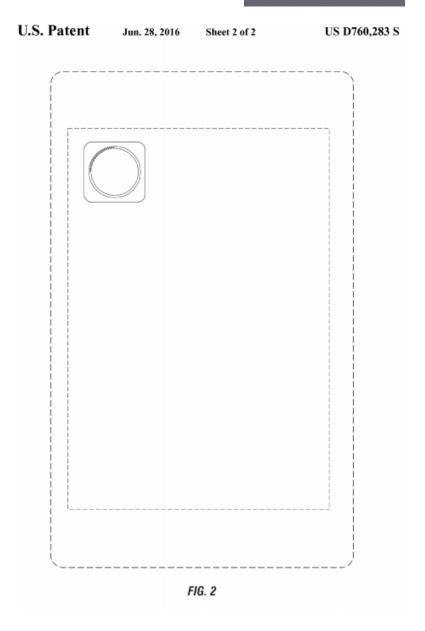
FIG. 1 is an enlarged front view of a computing device display screen with graphical user interface, under a first embodiment; and,

FIG. 2 is a front view of a computing device display screen with graphical user interface, under a second embodiment. The broken lines showing a portion of a computer device display screen in FIGS. 1 and 2 represent environmental subject matter that forms no part of the claimed design.

#### 1 Claim, 2 Drawing Sheets









(12) United States Design Patent
Hansen et al. (10) Patent No.:
(45) Date of Pate

(10) Patent No.: US D724,620 S (45) Date of Patent: \*\* Mar. 17, 2015

(54) COMPUTING DEVICE DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE

(71) Applicant: Uber Technologies, Inc., San Francisco, CA (US)

(72) Inventors: Richard Gary Hansen, San Francisco, CA (US); Travis Cordell Kalanick, San Francisco, CA (US)

(73) Assignee: Uber Technologies, Inc., San Francisco, CA (US)

(\*\*) Term: 14 Years

(21) Appl. No.: 29/436,687

715/211 See application file for complete search history.

(56) References Cited

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Primary Examiner - Karen S Acker

(74) Attorney, Agent, or Firm - Mahamedi Paradice LLP

(57) CLAIM

The ornamental design for a computing device display screen with graphical user interface, as shown and described.

#### DESCRIPTION

FIG. 1 is an enlarged front view of a computing device display screen with graphical user interface, under a first embodiment; and.

FIG. 2 is a front view of a computing device display screen with graphical user interface, under a second embodiment. The broken lines showing portions of a computing device display screen in FIGS. 1 and 2 represent environmental subject matter that forms no part of the claimed design. The broken line within the solid line perimeter of the design in FIG. 2 represents a portion of the computing device display screen with graphical user interface that forms no part of the claimed design.

1 Claim, 2 Drawing Sheets



### U.S. Patent

Mar. 17, 2015

Sheet 2 of 2

US D724,620 S

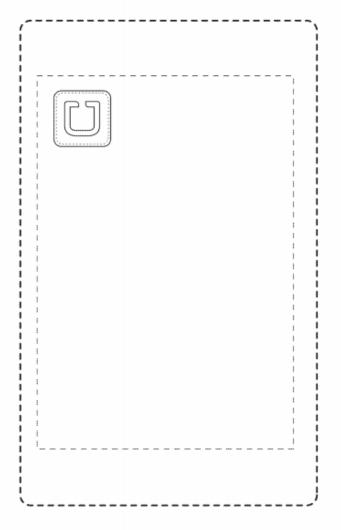


FIG. 2



# **THANK YOU!**

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