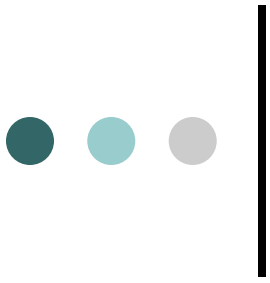


The logo features a central dark blue circle containing the text 'UIC' in light blue. This circle is surrounded by a yellow ring, which is further enclosed by a red ring. Three thick lines radiate from the center: a yellow line extending towards the top right, a red line extending towards the bottom right, and a yellow line extending towards the bottom left. The background is a solid light blue.

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Intellectual Property Basics

Alumni Exchange

July 8th, 2020

University of Illinois at Chicago (UIC) Office of Technology Management (OTM)

Mark Krivchenia

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Senior Technology Manager,
Office of Technology Management

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Road map:

- A quick poll!
- Intellectual Property (IP) Basics.
- How does UIC manage IP & Entrepreneurship on campus?
- Some useful links and information.



IP: What kind?



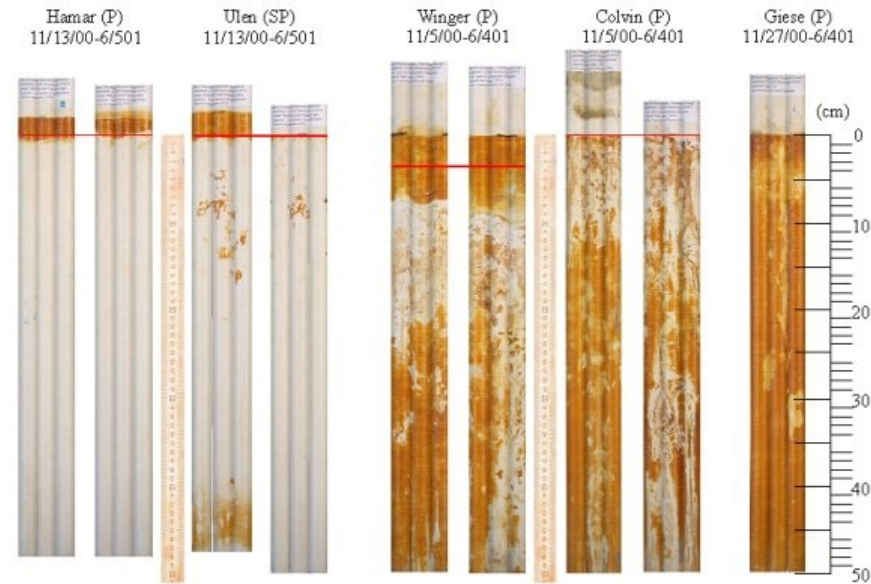
- A patent (University of Florida)
- An old trademark (University of Florida)
- New trademark (??)

IP: What kind?



- Honey Crisp Apples (plant patent, U of Minnesota)
- Trademark (University of MN)

IP: What kind?

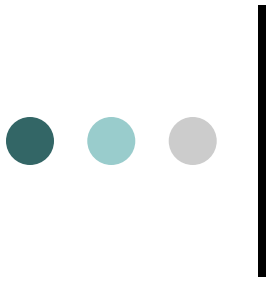


o Iris tube (patent, Purdue University); measures hydric content of soils.....

IP: What kind?

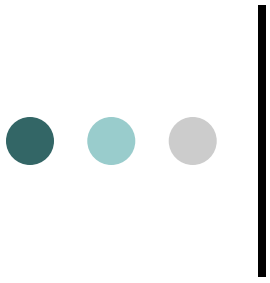


- A copyright protected exercise curriculum for osteo arthritis (over 100 licenses)
- A trademark owned by the University of Illinois.



Types of Intellectual Property

- Copyright
- Patent
- Trademark
- Trade secret (knowhow)



Copyright © Law Basics

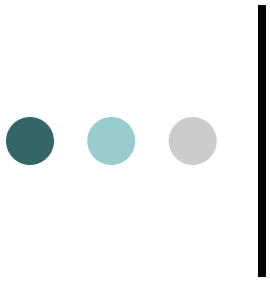
(<http://www.copyright.gov/>)

- Unlike patent protection, copyright protection exists from the time a work is created in fixed form
- Owner has exclusive right to control
 - Duplication or reproduction
 - Creation of Derivative works
 - Distribution, public performance, or public display
- Duration of copyright protection (as of 1/1/1978)
 - Life of author plus 70 years
 - Corporate author - the shorter of 95 years from publication or 120 years from creation
- Registration ® of copyright (with U.S. Copyright Office) is required to seek damages for copyright infringement.



Types of Patents

- Utility - A process, machine, manufacture, composition of matter, or useful improvements.
- Design
 - Applied more to “look” and function related design
 - Examples: designs of jewelry, furniture, beverage containers and computer icons and device design.
- Plant - specific to protection of plant species



Criteria for Utility Patent

- Utility
 - Novelty
 - Non-obvious
 - Enabled
- } in light of Prior Art



Key elements of a patent:

- Inventors: those who conceived invention and reduced to practice.
- Assignee: owner of the property rights of invention.
- Priority Date: Official date of invention disclosure.
 - Maintain confidential until public disclosure with non-disclosure agreements.
- Abstract: Summary of the invention
- Drawings and diagrams: to demonstrate the apparatus, or data to prove that the invention is enabled
- Examples: must disclose “preferred embodiment”
- **Claims: defines the specific scope of the invention. KEY.**



(12) **United States Patent**
Kenis et al.

(10) **Patent No.:** **US 7,976,789 B2**
(45) **Date of Patent:** **Jul. 12, 2011**

(54) **MICROFLUIDIC DEVICE FOR PREPARING MIXTURES**

(75) Inventors: **Paul J. A. Kenis**, Champaign, IL (US); **Joshua D. Tice**, Urbana, IL (US); **Sarah L. Perry**, Champaign, IL (US); **Griffin W. Roberts**, Lawrence, KS (US)

(73) Assignee: **The Board of Trustees of the University of Illinois**, Urbana, IL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 3 days.

(21) Appl. No.: **12/177,828**

(22) Filed: **Jul. 22, 2008**

(65) **Prior Publication Data**
US 2010/0022007 A1 Jan. 28, 2010

(51) **Int. Cl.**
B01D 9/00 (2006.01)

(52) **U.S. Cl.** **422/245.1**; 422/68.1; 422/408; 422/417; 422/600; 422/606; 422/500; 422/501; 422/502; 422/504; 422/537

(58) **Field of Classification Search** 422/68.1, 422/81, 245.1; 435/286.5, 287.2
See application file for complete search history.

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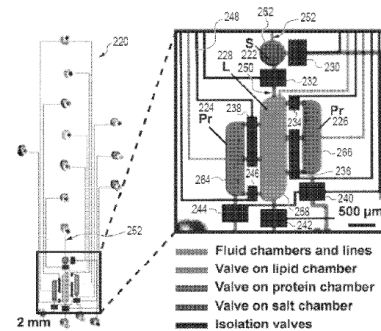
(Continued)

Primary Examiner — Sally A Sakelaris
(74) Attorney, Agent, or Firm — Evan Law Group LLC

(57) **ABSTRACT**

A microfluidic device for preparing a mixture, has a mixer. The mixer includes a plurality of chambers, each chamber having a volume of at most 1 microliter, a first plurality of channels, each channel fluidly connecting 2 chambers, a plurality of chamber valves, each chamber valve controlling fluid flow out of one of the plurality of chambers, and a first plurality of channel valves, each channel valve controlling fluid flow through one of the first plurality of channels.

13 Claims, 14 Drawing Sheets





3

accordance with FIG. 4. At the second end 16, where the rope would typically be, a donut-shaped enclosure 20 is provided and mounted to the handle along and perpendicular to its symmetrical axis X. Inside of each donut-shaped enclosure 20, a series of weighted balls 30 is provided. The enclosure 20 forms a circular outer sidewall 32 angularly separated from a circular inner sidewall 34. The outer sidewall 32 and inner sidewall 34 bound and form smooth inner channel 36 that retain and guide the weighted balls 30 such as to form a circular track perpendicular to and symmetrically about the centerline "X" of the handle.

Having described the basic cordless jump rope of the present invention, one skilled in the art can see that various additional features can be incorporated in combination to provide a broader adaptable exercise device. One such feature is shown in conjunction with FIG. 4, in which a partial cross sectional view of an alternate embodiment is shown incorporating a flexible stretching exerciser/stretcher device 40. To adapt such an improvement, the handle 12 forms a hollow chamber 42 and the first handle end 14 forms a chamber orifice 44 to provide access to the chamber 42. A threaded end cap 46 is threadably engaged with a threaded neck portion 48 to seal the hollow chamber 42. A length of linearly elongated, stretchable flex member 50, such as is conventionally used in stretching or isometric exercise devices, is retained at each end within the chamber 42 by terminated each end with an anchor means 52 and retaining one anchor means 52 within a chamber 42 of each handle 12. Depending upon the length and elastomeric characteristics selected for the flex member 50, the exerciser can now be used for stretching, warming up, or actual resistance isometric exercises.

Other improvements are anticipated. By way of example, and not as a limitation, a timer that keeps track of the total time that the invention is used can be incorporated within the handle 12 or enclosure 20. Or, in a similar fashion, a timer that keeps track of the total repetitions of simulated jump-rope use can be incorporated within the handle 12 or enclosure 20 as well.

2. Operation of the Preferred Embodiment

To use the invention, a user holds a handle in each hand, and begins to simulate jumping rope while moving the handles in a circle with their hands and arms. The weighted ball or gear simulates the centrifugal action of a jump rope, thus delivering all the health benefits of jumping rope without any of the disadvantages of stumbling on the rope, having the rope hit the ceiling or the like.

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The foregoing descriptions of specific embodiments of the present invention have been presented for purposes of illustration and description. They are not intended to be exhaustive or to limit the invention to the precise forms disclosed, and obviously many modifications and variations are possible in light of the above teaching. The embodiments were chosen and described in order to best explain the principles of the invention and its practical application, to thereby enable others skilled in the art to best utilize the invention and various embodiments with various modifications as are suited to the particular use contemplated. It is intended that the scope of the invention be defined by the claims appended hereto and their equivalents. Therefore, the scope of the invention is to be limited only by the following claims.

What is claimed is:

1. An exerciser apparatus comprising:

a pair of jump rope exerciser handles that simulates the effects of jumping rope, each handle forming a linearly elongated grasping member having a first end opposite a second end aligned along a symmetrically balanced central axis;

at least one weighted ball;

a donut-shaped enclosure mounted to said handle along and perpendicular to said symmetrical axis said enclosure forming a circular outer sidewall angularly separated from a circular inner sidewall such that said outer sidewall and said inner sidewall bound and form smooth inner channel that retain and guide said weighted ball such as to form a circular track perpendicular to and symmetrically about said centerline of said handle; and

a flexible stretching member attached at said first end, where said flexible stretching member retained at each end within said chamber by terminated each end with an anchor means and retaining one anchor means within a chamber of each said handle.

2. The exerciser of claim 1, further comprising a timer incorporated within said handle.

3. The exerciser of claim 1, further comprising:

a hollow chamber formed in said handle;

said first handle end forming a chamber orifice to provide access to said hollow chamber;

a threaded end cap threadably engaged with a threaded neck portion to seal the hollow chamber.

* * * * *

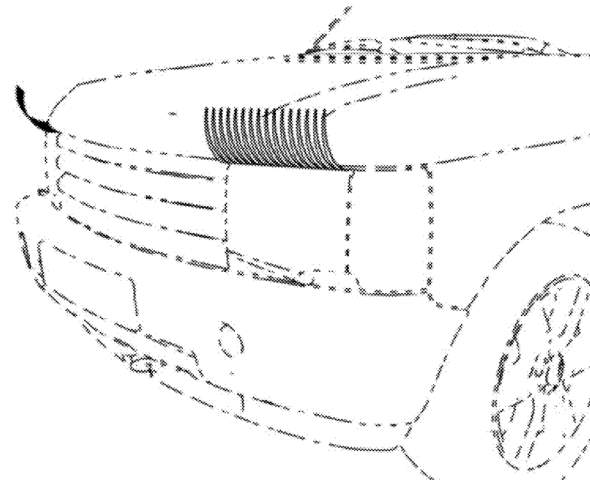


FIG. 8



US00D675776S

(12) **United States Design Patent** (10) **Patent No.:** **US D675,776 S**
Small (45) **Date of Patent:** ** **Feb. 5, 2013**

(54) **HEADLIGHT ACCESSORY**

(76) Inventor: **Robert Small**, Park City, UT (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/393,015**

(22) Filed: **May 27, 2011**

(51) **LOC (9) Cl.** **26-99**

(52) **U.S. Cl.** **D26/139**

(58) **Field of Classification Search** D26/28-36,
D26/139; 362/61, 80-83, 329-340
See application file for complete search history.

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Related Case: U.S. Appl. No. 13/168,791, filed Jun. 24, 2011; Robert Small.

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Primary Examiner — Marcus Jackson

(74) *Attorney, Agent, or Firm* — Thorpe North & Western LLP

(57) **CLAIM**

The ornamental design for an headlight accessory, as shown and described herein.

DESCRIPTION

FIG. 1 is a perspective view of the headlight accessory in accordance with my invention;

FIG. 2 is a side view thereof, taken from the right side of FIG. 1;

FIG. 3 is a side view thereof, taken from the left side of FIG. 1;

FIG. 4 is a base end view thereof;

FIG. 5 is a front end view thereof;

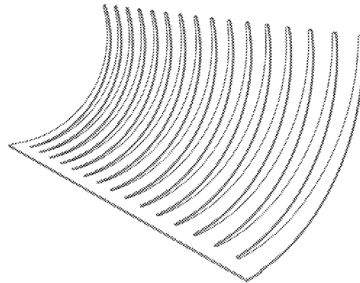
FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof; and,

FIG. 8 is a perspective view showing a pair of headlight accessories installed on a vehicle.

Broken lines shown in FIG. 8 are for illustrative purposes only and form no part of the claimed design. The surface indicia of parallel lines also form no part of the claimed design and are merely surface shading.

1 Claim, 4 Drawing Sheets





Provisional Patent Applications

Provisional patent applications are similar to regular patent applications and may include:

- Patent drawings
- Detailed description of the drawings
- Claims (permitted, but not reviewed)

Differences from regular patent applications

- Expire in one year and do not issue as a patent
- Do not require claims
- Much lower filing fees



Search Tools

- US Patent Office:
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- European Patent Office:
 - Espacenet (<http://worldwide.espacenet.com>)
- World Intellectual Property Office: Patentscope (<http://patentscope.wipo.int>)
- Google Patents (<http://www.google.com/?tbm=pts>)
- Commercial: Include Thomson Innovation (formerly Delphion), Minesoft PatBase, Lexis Total Patent



Trademark: What is it?

- Any symbol, word, name or device, or any combination thereof that serves to
 - 1.) identify and
 - 2.) distinguish

the source of one party's goods and services from that of another.

- Well-known name associated with product
- May be valuable
- Used in some type of commerce
- Continued use necessary



Trademarks!

Can You Guess These Common Trademarks?



First Row: Android, Apple, McDonald's, Microsoft, Coca-Cola
Second Row: Shell Oil, MSNBC, Olympics, Target, Mercedes-Benz
Third Row: Pepsi, Pillsbury, Mickey Mouse, Superman, Nike



Trade Secret: What is it?

- Generally protected by state, not federal law.
- Protection of holder only if trade secret obtained by improper means.
- Must be valuable and readily known to others, be a competitive advantage, and subject to reasonable efforts to protect it.
- Requirements to maintain secrecy internally and externally.
- No time limit.
- Does not prohibit independent development.



Trade Secrets!

- Coca-Cola
- Bisquick
- Cheerios
- Chemical processes (in many industries)
- Perfumes, cosmetics
- Any kind of “know how” that is not publicly available.



INTELLECTUAL PROPERTY AT A GLANCE

Source: William Bahret, Esq., Bahret & Associates, Indianapolis, Indiana

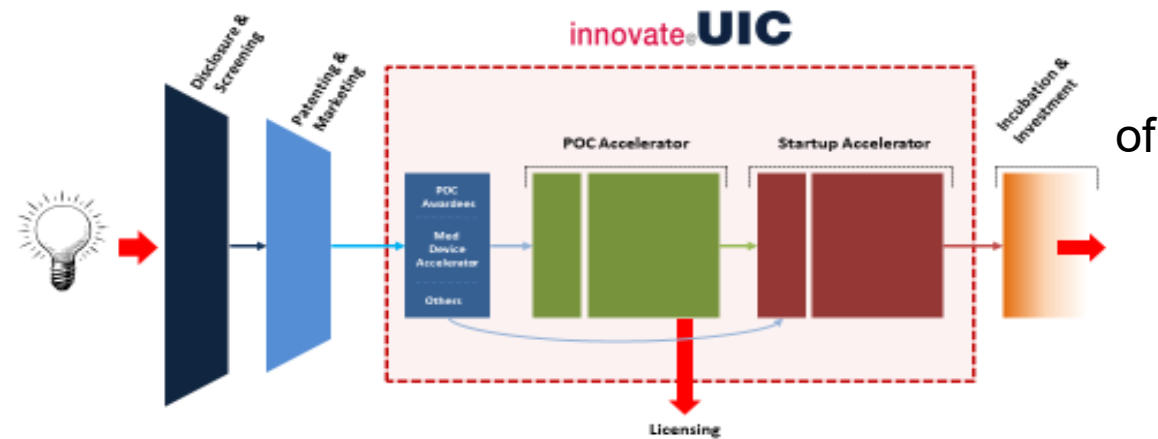
PARAMETER	UTILITY PATENT	DESIGN PATENT	TRADEMARK	COPYRIGHT	TRADE SECRETS
What is protected	Functional aspects (what it does)	Appearance of article of manufacture (how it looks)	Words, names, logos	Expression in literary, musical & pictorial works of authorship	Confidential information
Rights granted	Exclude from making, using or selling	Exclude from making, using or selling	Exclusive use	Prevent copying	Exclusive use
Criteria	New, useful and not obvious	New and not obvious	Distinctive	Original	Confidential
How obtain rights	Issuance of patent	Issuance of patent	(1) Use (2) Registration	(1) Fixed in tangible medium (2) Registration	Creation
Term	20 years from filing	14 years from issue date	(1) Unlimited (2) 10 years	75 yrs. from publication (work for hire)	Unlimited
Renewable	No	No	Yes	No	N/A
Test of Infringement	Claim language	Substantial similarity in appearance	Likelihood of confusion	Substantial similarity	Use
No protection against	Sale of prior art	Sale of prior art	Same name for very different goods or services	Independent creation, or use of preexisting material	Independent creation or reverse engineering

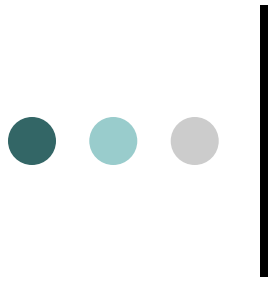


The UIC Commercialization Model



The vision for Innovate@UIC





UIC Office of Technology Management

<https://otm.uic.edu/>

- Impact 2019

- <https://otm.uic.edu/about/fy19-impact-report/>
- \$44 million dollars in revenue
- 200 disclosures
- 113 US patents filed
- 27 patents issued
- 43 Licenses and Options
- 23 SBIR/STTR Awards
- \$8.8 Million in SBIR/STTR funding
- 3 New start-ups

The logo features a central dark blue circle containing the text 'UIC' in light blue. This circle is surrounded by a yellow ring, which is further enclosed by a red ring. Three thick lines radiate from the center: a yellow line extending towards the top right, a red line extending towards the bottom right, and a yellow line extending towards the bottom left. The background is a solid light blue.

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