



US007849521B1

(12) **United States Patent**
Cromwell

(10) **Patent No.:** **US 7,849,521 B1**

(45) **Date of Patent:** **Dec. 14, 2010**

(54) **FINGERTIP MANIPULATION DEVICE FOR
USE WITH GLOVES AND INSERTION
DEVICE AND METHOD OF INSERTION**

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2006/0221066 A1* 10/2006 Cascella 345/179

(76) Inventor: **Lawrence Cromwell**, 3648 Freshwater
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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 952 days.

Primary Examiner—Katherine Moran
(74) *Attorney, Agent, or Firm*—Gold & Rizvi, P.A.; H. John
Rizvi; Glenn E. Gold

(21) Appl. No.: **11/714,580**

(57) **ABSTRACT**

(22) Filed: **Mar. 6, 2007**

Related U.S. Application Data

(60) Provisional application No. 60/793,786, filed on Apr.
21, 2006.

(51) **Int. Cl.**
A41D 19/00 (2006.01)

(52) **U.S. Cl.** **2/160; 345/156**

(58) **Field of Classification Search** 2/161.6,
2/160; 345/156, 179
See application file for complete search history.

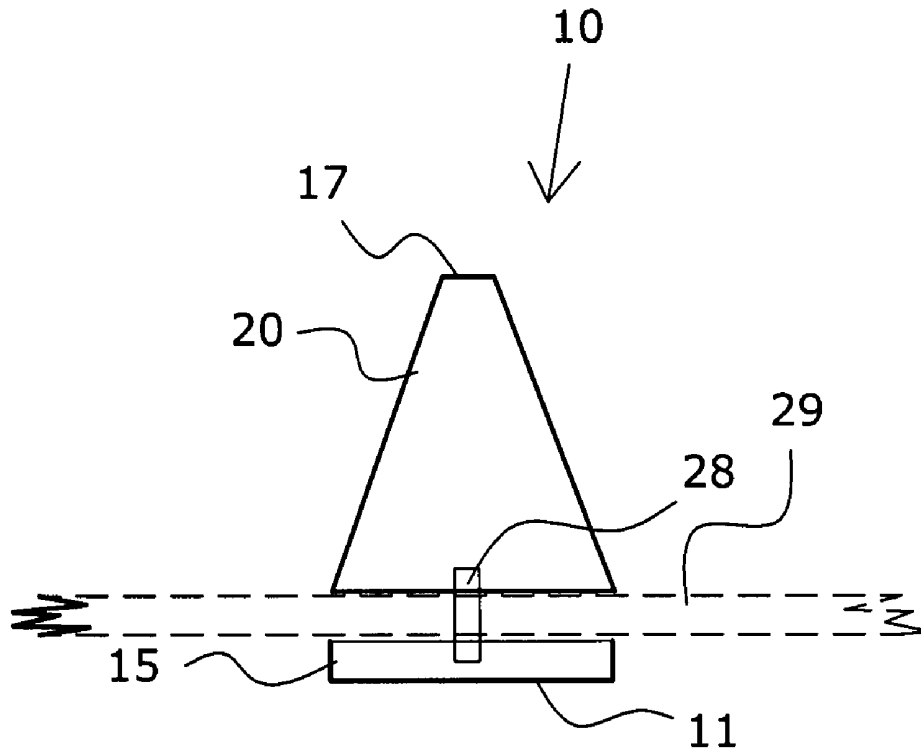
A fingertip manipulation device is provided which gives the user the ability to manipulate items such as small controls on consumer electronic products while wearing gloves. The fingertip manipulation device includes a mounting disk that is placed inside a glove preferably at the fingertip, a projecting member extending substantially perpendicularly from the mounting disk and configured to extend through the glove material, and a tip that is attached on the exterior of the glove to the distal end of the perpendicular projecting member. A method of conveniently inserting the device into a glove fingertip, as well as an insertion device, is provided. While wearing gloves to protect the hands, the tip of the fingertip manipulation device is easily used to engage or manipulate switches, buttons, or items.

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10 Claims, 4 Drawing Sheets





US00D696933S

(12) **United States Design Patent**
Quinn et al.

(10) **Patent No.:** **US D696,933 S**
(45) **Date of Patent:** **** Jan. 7, 2014**

(54) **DISPLAY FOR GLOVES**

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(US); **Peter Everett**, Collinsville, CT
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(73) Assignee: **Safety Works, LLC**, Wexford, PA (US)

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

(21) Appl. No.: **29/441,173**

(22) Filed: **Jan. 2, 2013**

(51) **LOC (10) Cl.** **09-03**

(52) **U.S. Cl.**
USPC **D9/415**

(58) **Field of Classification Search**

USPC D9/415, 414, 416, 418, 419, 428, 442,
D9/447, 430, 432-433, 456, 424, 503, 501,
D9/695, 696, 697, 699, 690, 686, 688, 689,
D9/711, 715, 721, 710, 718, 736, 740, 743,
D9/744, 749, 757, 767, 772, 781, 753, 742,
D9/739, 72; 206/395, 397-398, 223, 736,
206/756, 495, 349, 760, 541, 784; 229/395,
229/938, 902, 409, 125.05, 116.1

See application file for complete search history.

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Primary Examiner — Robert M Spear

Assistant Examiner — Rhea Shields

(74) *Attorney, Agent, or Firm* — Bartony & Associates, LLC

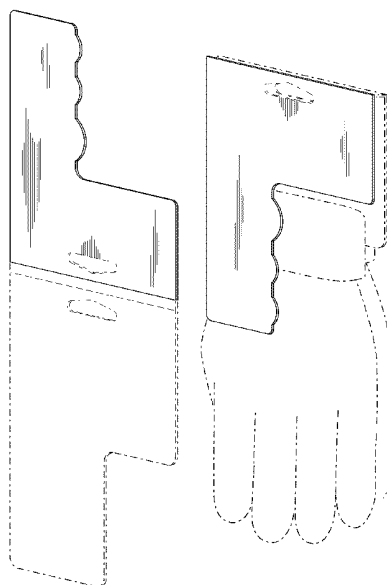
(57) **CLAIM**

The ornamental design for a display for gloves, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a display for gloves showing our new design in an unused condition;
FIG. 2 is a front view thereof, the rear view is identical;
FIG. 3 is a side view thereof
FIG. 4 is a side view thereof, opposite the side view of FIG. 3,
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is a perspective view of the display for gloves of FIG. 1 shown in a used condition;
FIG. 8 is another perspective view of the display for gloves of FIG. 1 shown in a used condition, having a pair of gloves therein, wherein the gloves are illustrated in broken lines;
FIG. 9 is a front view of the display for gloves of FIG. 1 shown in a used condition;
FIG. 10 is a rear view thereof, shown in a used condition;
FIG. 11 is a side view thereof, shown in a used condition,
FIG. 12 is a side view thereof, shown in a used condition, opposite the side view of FIG. 11,
FIG. 13 is a top view thereof, shown in a used condition; and,
FIG. 14 is a bottom view thereof, shown in a used condition. The broken lines in the figures illustrate unclaimed environment only and form no part of the claimed design.

1 Claim, 5 Drawing Sheets





US007399099B2

(12) **United States Patent**
Stokes

(10) **Patent No.:** **US 7,399,099 B2**

(45) **Date of Patent:** **Jul. 15, 2008**

(54) **ILLUMINATED TRAFFIC DIRECTING
GLOVES**

(75) Inventor: **John H. Stokes**, Dripping Springs, TX
(US)

(73) Assignee: **Tactical Devices, Inc.**, Austin, TX (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.: **11/775,670**

(22) Filed: **Jul. 10, 2007**

(65) **Prior Publication Data**

US 2008/0007427 A1 Jan. 10, 2008

Related U.S. Application Data

(60) Provisional application No. 60/819,596, filed on Jul.
10, 2006.

(51) **Int. Cl.**
F21V 33/00 (2006.01)

(52) **U.S. Cl.** **362/103; 362/802; 2/161.6;**
2/160

(58) **Field of Classification Search** 362/103,
362/109, 253, 802; 2/16, 159, 161.6, 160
See application file for complete search history.

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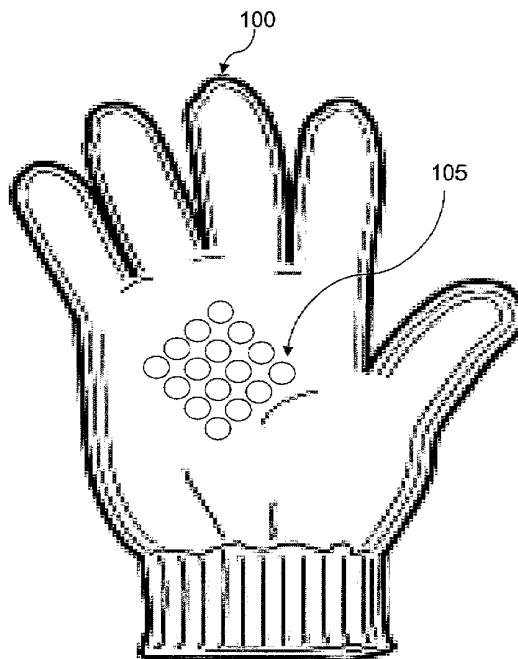
Primary Examiner—Laura Tso

(74) *Attorney, Agent, or Firm*—Craig J. Yudell; Dillon &
Yudell LLP

(57) **ABSTRACT**

A hand-held apparatus for directing the flow of traffic is disclosed. The palm side of a glove includes multiple high intensity red light emitting diodes (LEDs), and the back side of the glove includes multiple high intensity green LEDs. A control circuit coupled to the red and green high intensity LEDs periodically monitors the state of a motion and position sensor. When the state of the motion and position sensor corresponds to the palm side of the glove being in a vertical position with multiple fingers of the glove pointing skyward to within an acceptance angle of vertical relative to the ground, the control circuit illuminates the high intensity red LEDs. When the state of the motion and position sensor corresponds to the palm side of the glove not being in a vertical position relative to the ground, the control circuit illuminates the high intensity green LEDs.

20 Claims, 7 Drawing Sheets



United States Patent [19]
Orban et al.

[11] **Patent Number:** **4,764,665**
[45] **Date of Patent:** **Aug. 16, 1988**

[54] **ELECTRICALLY HEATED GLOVES**

[75] **Inventors:** **Ralph F. Orban; Clifford Lewis**, both
of Columbus, Ohio

[73] **Assignee:** **Material Concepts, Inc.**, Columbus,
Ohio

[21] **Appl. No.:** **20,306**

[22] **Filed:** **Mar. 9, 1987**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 750,960, Jul. 2, 1985,
abandoned.

[51] **Int. Cl.⁴** **H05B 3/34**

[52] **U.S. Cl.** **219/549; 219/211**

[58] **Field of Search** 219/211, 527, 528, 529,
219/549

[56] **References Cited**

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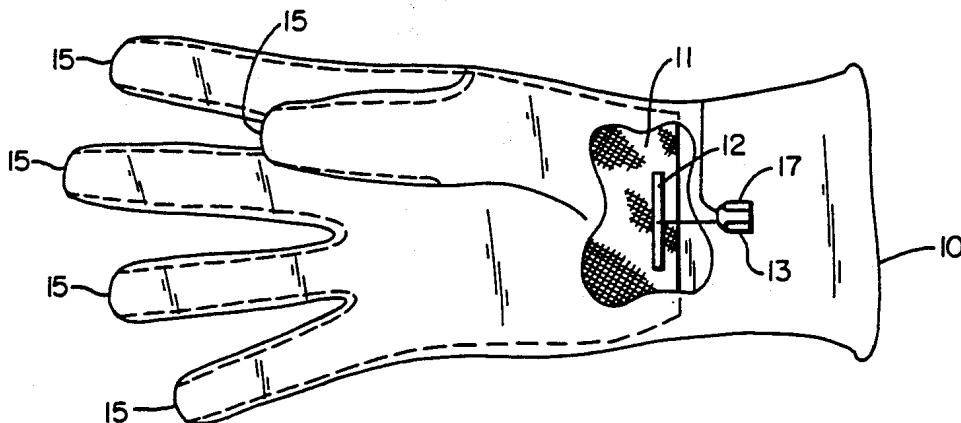
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Primary Examiner—Clifford C. Shaw
Assistant Examiner—Teresa J. Walberg
Attorney, Agent, or Firm—John L. Gray

[57] **ABSTRACT**

A heated glove includes an electrically heated woven fabric in which the fabric has been coated with electrically conducting metal to enable its use as a heating element. The fabric heating element is in the shape of the front and back of a hand with the front and back being electrically connected together only at the tips of the fingers, and is disposed between inner and outer insulating fabric layers.

2 Claims, 2 Drawing Sheets



Robinson, II

[11] Patent Number: 4,613,139

[45] **Date of Patent:** Sep. 23, 1986

[54] VIDEO CONTROL GLOVES

1480243 7/1977 United Kingdom 200/DIG. 2

[76] Inventor: **William H. Robinson, II, 3016
Sturtevant, Detroit, Mich. 48206**

Primary Examiner—Richard C. Pinkham

Assistant Examiner—Gary Jackson

Attorney, Agent, or Firm—Barnes, Kisselle, Raisch,
Choate, Whittemore & Hulbert

[21] Appl. No.: 679,989

[57] ABSTRACT

[22] Filed: Dec. 10, 1984

[51] Int. Cl.⁴ A63F 9/22

[52] U.S. Cl. 273/148 B; 273/DIG. 28;
200/DIG. 2

[58] **Field of Search** 273/148 B, DIG. 28;
200/DIG. 2, 6 A

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2 Claims, 2 Drawing Figures

Apparatus for providing switch closure control inputs to a joystick control port of a video console comprising a pair of gloves having separate finger and thumb portions with electrical contacts mounted on the palm surfaces thereof adjacent to the finger and thumb tips. The electrical contacts are connected to selected terminals of a connector adapted for removable insertion into the console control port. Physical contact between the finger and thumb tips obtains electrical connection between associated contacts so as to provide switch closure control inputs to associated terminals of the control port.

