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- (71) Applicant (for all designated States except US): **ALIPH-COM** [US/US]; Third Floor, 99 Rhode Island Street, San Francisco, CA 94103 (US).
- (72) Inventors; and
- (71) Applicants : **DRYSDALE, Richard, Lee** [US/US]; 235 Isbel Drive, Santa Cruz, CA 95060 (US). **FULLAM, Scott** [US/US]; 3982 Sutherland Drive, Palo Alto, CA 94303 (US). **ORVIS, Skip, Thomas** [US/US]; 6287 Shadelands Drive, San Jose, CA 95123 (US). **LEVINSON, Nora, Elam** [US/US]; 3731 Fessenden Street Nw, Washington, DC 20016 (US).
- (74) Agents: **DENNY, Trueman, H.** et al.; 703 High Street, Palo Alto, CA 94301 (US).

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(54) Title: COMPONENT PROTECTIVE OVERMOLDING USING PROTECTIVE EXTERNAL COATINGS

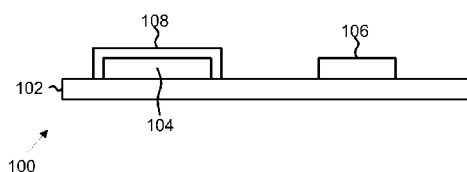


FIG. 1

(57) Abstract: Techniques for component protective overmolding using protective external coatings include a device having a framework configured to be worn, a button assembly coupled to the framework, the button assembly configured to send a signal to a circuit, the button assembly including a button configured to be depressed to displace a button shaft, a button inner housing coupled to the button and the button shaft, and a button outer housing coupled to the button inner housing, a first ring configured to form a first seal disposed substantially between the button inner housing and the button shaft, a second ring configured to form a second seal disposed substantially between the button inner housing and the button outer housing, and an outer molding formed over a portion of the button assembly.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 3/01 (2013.01)

USPC - 361/679.03

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A63B 71/00; G06F 3/01, 13/40; H01L 23/552 (2013.01)

USPC - 174/104; 361/679.03, 816; 455/575.6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - A45F 2200/0525; A63B 2024/0081, 2220/40, 2220/803; G04G 21/00 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Orbit, Google Patents, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011/0003665 A1 (BURTON et al) 06 January 2011 (06.01.2011) entire document	1-5, 7-15, 17-20
Y	US 4,072,004 A (TANAKA et al) 07 February 1978 (07.02.1978) entire document	1-5, 7-15, 17-20
Y	US 5,998,867 A (JENSEN et al) 07 December 1999 (07.12.1999) entire document	1-5, 7-15, 17-20
Y	US 2011/0278943 A1 (ECKHOFF et al) 17 November 2011 (17.11.2011) entire document	20
A	US 6,368,899 B1 (FEATHERBY et al) 09 April 2002 (09.04.2002) entire document	1-20

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

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Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774