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Bezinge et al.

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(54) **METHOD AND CIRCUIT FOR SWITCHING A WRISTWATCH FROM A FIRST POWER MODE TO A SECOND POWER MODE**

(52) **U.S. Cl.**
CPC **G06F 3/017** (2013.01); **G04C 3/002** (2013.01); **G04G 17/045** (2013.01); **G04G 19/12** (2013.01);

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(58) **Field of Classification Search**
CPC **G04C 3/002**; **G04G 17/045**; **G04G 19/12**; **G04G 21/08**; **G06F 1/3203**; **G06F 3/017**;
(Continued)

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(56) **References Cited**
U.S. PATENT DOCUMENTS
8,230,246 B1 7/2012 Sharkey
2002/0118605 A1 8/2002 Born et al.
(Continued)

(73) Assignee: **Slyde Watch SA** (CH)

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

FOREIGN PATENT DOCUMENTS

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EP 1324159 A1 7/2003
EP 1785808 A1 5/2007
(Continued)

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OTHER PUBLICATIONS

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US 2018/0067563 A1 Mar. 8, 2018

K. Tuck et al., "MMA84500Q Single/Double and Directional Tap Detection", Freescale Semiconductor, Inc., 2010; 16 pages.
(Continued)

Related U.S. Application Data

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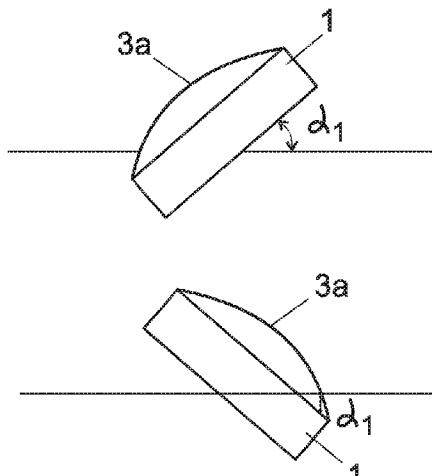
Foreign Application Priority Data

Oct. 18, 2011 (CH) 1689/11

(57) **ABSTRACT**
An electronic wristwatch operable in two power modes. The wristwatch has an inertial sensor for detecting a gesture on a cover glass of the wristwatch. A touch panel is provided underneath the cover glass for detecting the gesture. Gesture detection by the inertial sensor is combined with gesture detection by the touch panel for triggering a switch from a first power mode to a second power mode.

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G06F 1/32 (2006.01)
G06F 3/01 (2006.01)
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10 Claims, 5 Drawing Sheets



- (51) **Int. Cl.**
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G04G 17/04 (2006.01)
G04G 19/12 (2006.01)
G04G 21/08 (2010.01)
G04C 3/00 (2006.01)
- (52) **U.S. Cl.**
 CPC *G04G 21/08* (2013.01); *G06F 1/3203*
 (2013.01); *G06F 3/041* (2013.01)
- (58) **Field of Classification Search**
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 See application file for complete search history.
- 2009/0102669 A1 4/2009 Lin
 2009/0195497 A1 8/2009 Fitzgerald
 2009/0199130 A1 8/2009 Tsern et al.
 2010/0231777 A1 9/2010 Shintani
 2010/0235667 A1 9/2010 Mucignat et al.
 2010/0265209 A1 10/2010 Nurmi et al.
 2011/0080349 A1 4/2011 Holbein et al.
 2011/0109540 A1 5/2011 Milne et al.
 2011/0164057 A1* 7/2011 Prabhu G06F 3/017
 345/650
- 2011/0264928 A1 10/2011 Hinckley
 2012/0062470 A1 3/2012 Chang
 2012/0092383 A1 4/2012 Hysek et al.
 2012/0154303 A1 6/2012 Lazaridis et al.

FOREIGN PATENT DOCUMENTS

- (56) **References Cited**
 U.S. PATENT DOCUMENTS

- EP 2315101 A1 4/2011
 WO WO-09120292 A2 10/2009
 WO WO-11000893 A1 1/2011

- 2002/0167699 A1 11/2002 Verplaetse et al.
 2004/0179431 A1* 9/2004 Nakajima G04G 21/02
 368/11
 2006/0256081 A1 11/2006 Zalewski
 2007/0176896 A1 8/2007 Gritton et al.
 2008/0229255 A1 9/2008 Linjama
 2009/0085865 A1 4/2009 Fattah

OTHER PUBLICATIONS

BMA180 Digital, "Triaxial Acceleration Sensor", Data Sheet, Bosch Sensortec, Dec. 10, 2009, pp. 1-69.

* cited by examiner

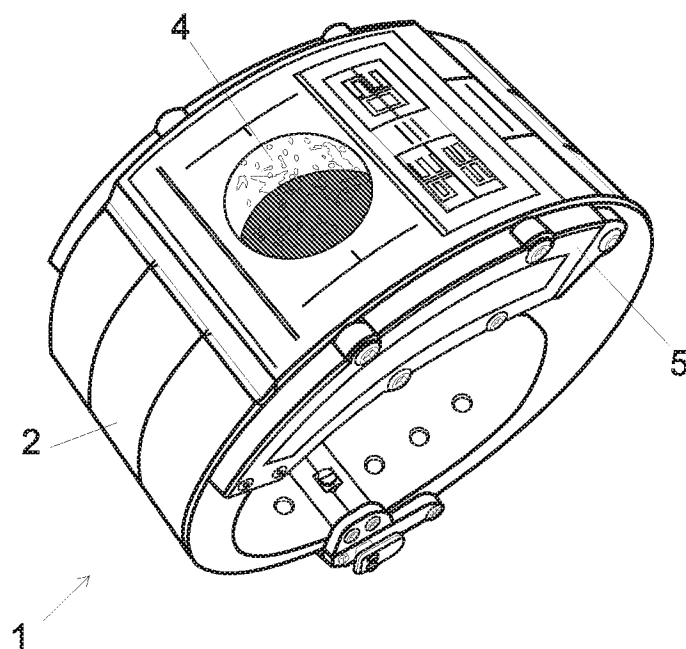


Fig. 1a

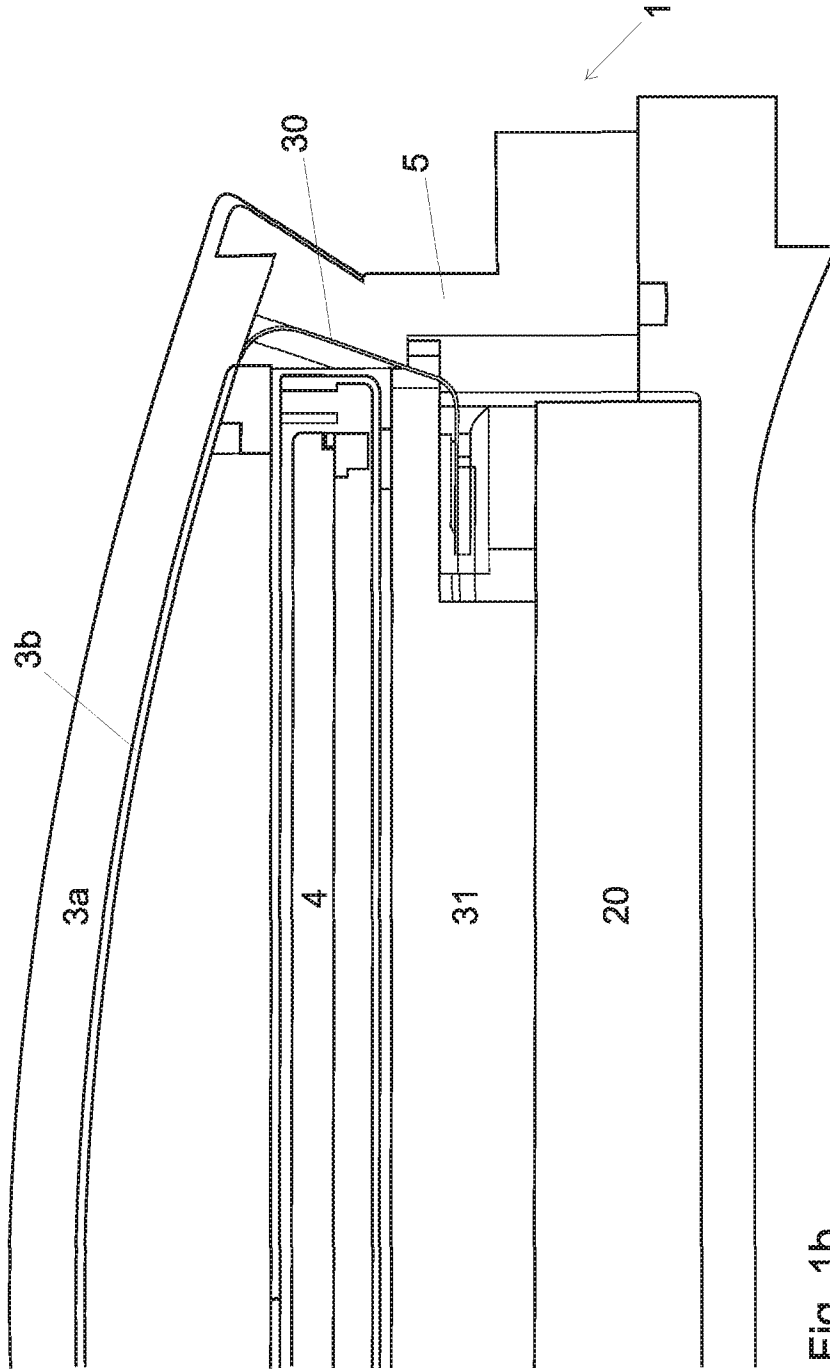


Fig. 1b

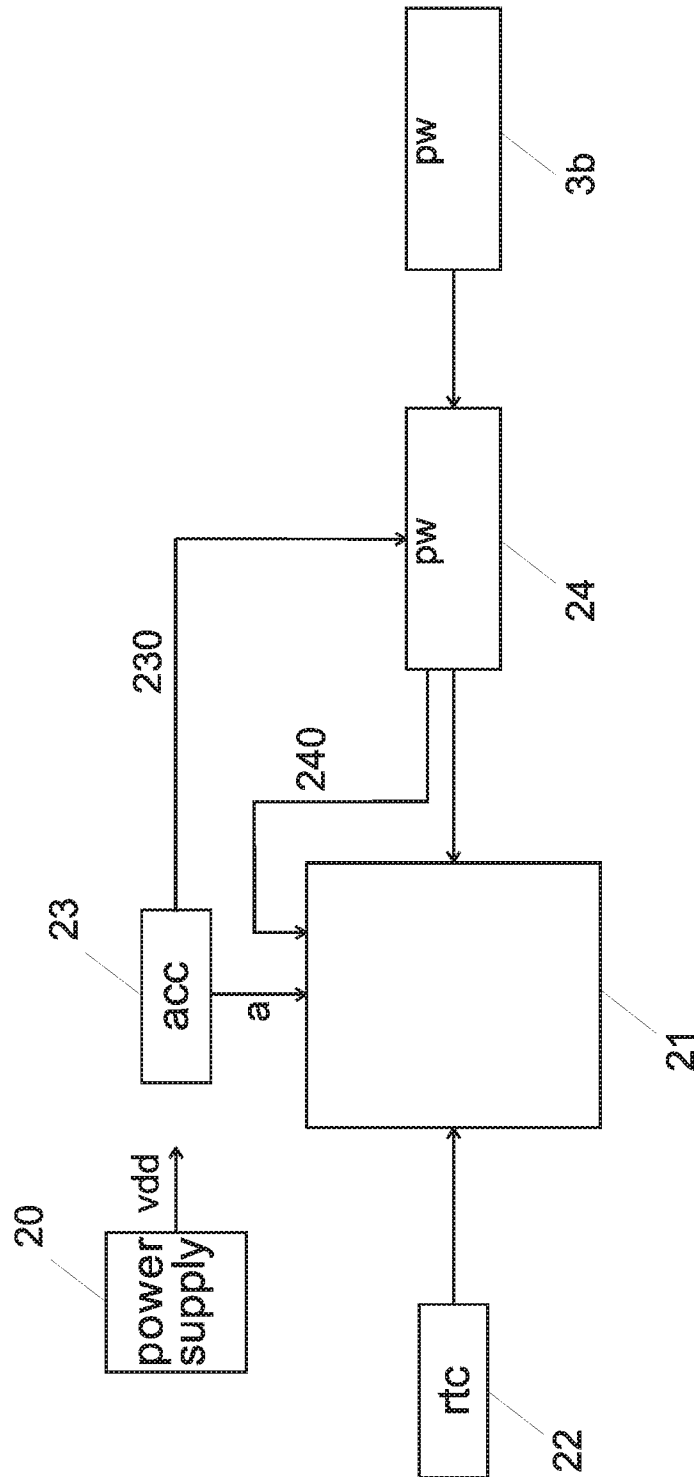


Fig. 2

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