

Title (en)
OPERATING DEVICE FOR TRIGGERING AN APPARATUS

Title (de)
BEDIENVORRICHTUNG ZUM ANSTEUERN EINES GERÄTS

Title (fr)
DISPOSITIF DE COMMANDE D'UN APPAREIL

Publication
EP 1523704 A1 20050420 (DE)

Application
EP 03764973 A 20030712

Priority
• EP 0307557 W 20030712
• US 20038502 A 20020722

Abstract (en)
[origin: US2004011154A1] A multi-axis vehicle control device or "joystick" includes one or more sensors defining discrete sensor zones on the handle portion thereof. The sensors are operative to passively detect the presence of a person or object in the vicinity of the handle. Location of the sensor zones in the regions of the handle engaged by the thumb and fingers of the operator's hand during normal operation allows the sensors to detect when the operator has manually engaged the joystick for normal operation. The sensors are in communication via a logic circuit to the actuator circuitry so that the actuator portion of the joystick is enabled only when a presence is detected in the discrete sensor zones and disabled when no presence is detected. The use of such sensors greatly reduces the risk of inadvertent actuation of the joystick and the associated safety hazards, while maintaining the positive ergonomic characteristics of the joystick.

IPC 1-7
G05G 5/28; **G05G 9/047**; **E02F 9/24**

IPC 8 full level
E02F 9/20 (2006.01); **E02F 9/24** (2006.01); **G05G 5/28** (2006.01); **G05G 9/047** (2006.01)

CPC (source: EP KR US)
E02F 9/2004 (2013.01 - EP US); **E02F 9/24** (2013.01 - EP US); **G05G 5/28** (2013.01 - EP KR US); **G05G 9/047** (2013.01 - EP KR US); **H01H 2003/0293** (2013.01 - EP US); **H01H 2239/006** (2013.01 - EP US); **H01H 2300/022** (2013.01 - EP US); **Y10T 74/2003** (2015.01 - EP US); **Y10T 74/2014** (2015.01 - EP US); **Y10T 74/20201** (2015.01 - EP US); **Y10T 74/20612** (2015.01 - EP US)

Citation (search report)
See references of WO 2004010239A1

Cited by
FR3096979A1; WO2020245532A1; WO2020245531A1; FR3096978A1

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US 2004011154 A1 20040122; **US 6948398 B2 20050927**; AR 040648 A1 20050413; AU 2003246688 A1 20040209; AU 2003246688 B2 20070726; BR 0312853 A 20050419; BR PI0312853 B1 20170314; CA 2495724 A1 20040129; DE 50304968 D1 20061019; EP 1523704 A1 20050420; EP 1523704 B1 20060906; JP 2005534095 A 20051110; KR 100956274 B1 20100510; KR 20050035866 A 20050419; MX PA05000775 A 20050419; WO 2004010239 A1 20040129

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