

Title (en)

REMOTE CONTROLLER FOR HEAVY CONSTRUCTION MACHINES WITH PUSHROD FOLLOWER

Title (de)

FERNSTEUERUNG FÜR SCHWERE BAUMASCHINEN MIT KOLBENSTANGENSTÖSSEL

Title (fr)

TELECOMMANDE POUR ENGINS DE TRAVAUX PUBLICS A POUSSOIR SUIVEUR

Publication

EP 1644645 B1 20080220 (FR)

Application

EP 04767450 A 20040624

Priority

- FR 2004001601 W 20040624
- FR 0308566 A 20030711
- FR 0401894 A 20040225

Abstract (en)

[origin: US2006169498A1] The invention relates to a remote controller for heavy construction machines with a body, comprising a cavity, running between a first outlet end and a base, a first pushrod, running between a head and a base, arranged to slide with a back and forth movement in the cavity along an axial direction, a handle which may pivot with relation to the body, whereby a skirt of said handle is in direct contact with the head. The first pushrod may furthermore be moved to an extended position opposite to the depressed position with relation to the idle position thereof. First elastic return means are arranged in the cavity to force the pushrod into the extended position thereof and detection means are provided to detect the position of the first pushrod.

IPC 8 full level

F15B 13/042 (2006.01); **F15B 13/04** (2006.01)

CPC (source: EP KR US)

F15B 13/00 (2013.01 - KR); **F15B 13/04** (2013.01 - KR); **F15B 13/042** (2013.01 - KR); **F15B 13/0422** (2013.01 - EP US);
F15B 2013/0409 (2013.01 - EP US); **Y10T 137/8242** (2015.04 - EP US); **Y10T 137/8275** (2015.04 - EP US); **Y10T 137/87064** (2015.04 - EP US);
Y10T 137/87072 (2015.04 - EP US)

Cited by

FR3096162A1; DE102022200968A1; IT202100000875A1; DE102021205349A1; DE102021205814A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 200616948 A1 20060803; US 7467644 B2 20081223; AT E386886 T1 20080315; DE 602004011940 D1 20080403;
DE 602004011940 T2 20090226; DK 1644645 T3 20080623; EP 1644645 A1 20060412; EP 1644645 B1 20080220; FR 2857489 A1 20050114;
FR 2857489 B1 20060609; JP 2007526970 A 20070920; KR 101115555 B1 20120305; KR 20060035749 A 20060426;
WO 2005015031 A1 20050217

DOCDB simple family (application)

US 55993004 A 20040624; AT 04767450 T 20040624; DE 602004011940 T 20040624; DK 04767450 T 20040624; EP 04767450 A 20040624;
FR 0401894 A 20040225; FR 2004001601 W 20040624; JP 2006519948 A 20040624; KR 20067000735 A 20040624