

Title (en)

Device for quick engagement and disengagement of the excavating tool in hydraulic excavators

Title (de)

VORRICHTUNG ZUR SCHNELLEN MONTAGE UND DEMONTAGE EINES BAGGERGERÄTES AN EINEM HYDRAULISCHEN BAGGER

Title (fr)

DISPOSITIF POUR LE RAPIDE MONTAGE ET DEMONTAGE D'UN OUTIL D'EXCAVATION SUR UNE EXCAVATRICE HYDRAULIQUE

Publication

EP 1138833 B1 20081022 (EN)

Application

EP 01106465 A 20010323

Priority

IT FO20000006 A 20000327

Abstract (en)

[origin: EP1138833A1] The quick coupling device comprises a bolt element (6) acting as a locking element that is pushed constantly into the engaged condition by springs (7) and in the opposite direction by the temporary interventions of a hydraulic jack (4). The bolt element (6) is provided with two holes (6A,6B) adapted to receive, one the end of an emergency lever (3) for emergency manual disengagement and the other one a safety pin (5) which is retained in the respective hole (6B) by the thrust of a spring. The safety pin (5) can be retracted both hydraulically and manually, at a protruding hook end (5A) thereof with which a lever (11) can be engaged when necessary. <IMAGE>

IPC 8 full level

E02F 3/36 (2006.01)

CPC (source: EP)

E02F 3/3627 (2013.01); **E02F 3/365** (2013.01); **E02F 3/3663** (2013.01); **E02F 3/3672** (2013.01)

Cited by

AT507598B1; AT510095B1; GB2517499B; EP1362957A1; GB2381257A; GB2381257B; CZ303136B6; US7654019B2; US10352020B2; WO2015024981A1; US7001136B2; DE102010034738A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1138833 A1 20011004; **EP 1138833 B1 20081022**; AT E412088 T1 20081115; DE 60136238 D1 20081204; DK 1138833 T3 20090302; ES 2316409 T3 20090416; IT 1319865 B1 20031103; IT FO20000006 A0 20000327; IT FO20000006 A1 20010927

DOCDB simple family (application)

EP 01106465 A 20010323; AT 01106465 T 20010323; DE 60136238 T 20010323; DK 01106465 T 20010323; ES 01106465 T 20010323; IT FO20000006 A 20000327