

Title (en)

Hydraulic locking device for quick couplings in construction machines.

Title (de)

Hydraulisch betätigtes Verriegelungsvorrichtung für Schnellwechsler an Bau- und Arbeitsmaschinen.

Title (fr)

Dispositif hydraulique de blocage pour dispositifs d'attelage rapide d'engins de chantier.

Publication

EP 0671512 A3 19960424 (DE)

Application

EP 95100825 A 19950123

Priority

DE 4408386 A 19940312

Abstract (en)

[origin: EP0671512A2] The locking system has at least one cylinder (3), containing at least one piston (64) connected to a locking bolt (8), via a piston rod (7). The piston is actuated by hydraulic pressure supplied by pipes (4,5) from a control valve (6). A device (19) connects the opposite faces of the piston, and can be situated inside the piston. The device can also be built into the hydraulic circuit external to the cylinder, and may take the form of a connection of smaller cross-section than the supply pipes, and may also contain an aperture.

IPC 1-7

E02F 3/36; E02F 9/22

IPC 8 full level

E02F 3/36 (2006.01); **E02F 9/22** (2006.01); **F15B 15/20** (2006.01)

CPC (source: EP)

E02F 3/3663 (2013.01); **E02F 9/2267** (2013.01); **E02F 9/2271** (2013.01)

Citation (search report)

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- [Y] US 4872310 A 19891010 - KAYE ARTHUR [GB]
- [Y] US 4337687 A 19820706 - HOOVER ROBERT A
- [A] FR 2304726 A1 19761015 - LIEBHERR HYDRAULIKBAGGER [DE]

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EP2690223A3; GB2308839A; CN105927609A; WO02088476A1

Designated contracting state (EPC)

AT CH DE ES FR IT LI NL

DOCDB simple family (publication)

EP 0671512 A2 19950913; EP 0671512 A3 19960424; EP 0671512 B1 19990811; AT E183270 T1 19990815; DE 4408386 A1 19950921;
DE 4408386 C2 19960704; DE 59506556 D1 19990916; ES 2137382 T3 19991216

DOCDB simple family (application)

EP 95100825 A 19950123; AT 95100825 T 19950123; DE 4408386 A 19940312; DE 59506556 T 19950123; ES 95100825 T 19950123