

Title (en)  
QUICK COUPLER FOR COUPLING A HYDRAULICALLY OPERATED TOOL/IMPLEMENT ONTO AN EXCAVATOR AND A MECHANICAL COUPLING MEMBER

Title (de)  
SCHNELLKUPPLUNG ZUR VERBINDUNG EINES HYDRAULISCH ANGETRIEBENEN WERKZEUGS/ARBEITSGERÄTS AN EINEN BAGGER UND EIN MECHANISCHES VERBINDUNGSELEMENT

Title (fr)  
COUPLEUR RAPIDE POUR ACCOUPLER UN OUTIL/ACCESSOIRE HYDRAULIQUE SUR UNE EXCAVATRICE ET UN ÉLÉMENT DE COUPLAGE MÉCANIQUE

Publication  
**EP 2995725 A1 20160316 (EN)**

Application  
**EP 15183694 A 20150903**

Priority  
SE 1451030 A 20140903

Abstract (en)  
A quick coupler ( 20 ) for coupling a hydraulically operated tool/implement ( 10 ) onto an excavator boom provided with a tilt rotator ( 1 ) and a bucket latch ( 5 ), comprising a mechanical coupling member ( 21 ) adapted to be fixedly mounted onto the tool/implement and designed to be secured to the tilt rotator by means of the bucket latch, a first valve block ( 27 ) for hydraulics, the valve block being adapted to be fixedly mounted onto the tilt rotator, and a second valve block ( 28 ) movably mounted onto the mechanical coupling member, and arranged to be displaced by the bucket latch when the bucket latch secures the tool/implement to the tilt rotator, into contact with the first valve block, such that the two valve blocks are interconnected to allow the flow of hydraulic fluid therethrough, and a mechanical coupling member ( 21 ) adapted to be fixedly mounted onto the tool/implement.

IPC 8 full level  
**E02F 3/36** (2006.01)

CPC (source: EP SE)  
**E02F 3/3622** (2013.01 - EP); **E02F 3/3627** (2013.01 - EP); **E02F 3/3654** (2013.01 - EP SE); **E02F 3/3681** (2013.01 - EP); **E02F 3/3686** (2013.01 - EP)

Citation (applicant)  

- SE 524668 C2 20040914 - OILQUICK AB [SE]
- SE 535681 C2 20121106 - STEELWRIST AB [SE]
- SE 1150837 A1 20130316 - STEELWRIST AB [SE]
- DE 10159417 A1 20020926 - LIEBHERR HYDRAULIKBAGGER [DE]
- US 6385872 B1 20020514 - MIEGER ROLF [DE], et al
- US 6813851 B2 20041109 - MIEGER ROLF [DE], et al
- US 7464967 B2 20081216 - MIEGER ROLF [DE], et al
- US 2014030005 A1 20140130 - FRIEDRICH THOMAS [DE]

Citation (search report)  

- [A] WO 2004072387 A1 20040826 - OILQUICK AB [SE], et al
- [A] EP 1580329 A1 20050928 - STIG ENGSTROEM [SE]
- [A] WO 2007131800 A1 20071122 - LEHNHOFF HARTSTAHL GMBH & CO K [DE], et al

Cited by  
DE102018114314A1; EP3231946A3; US11453993B2; DE102018114314B4

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2995725 A1 20160316**; SE 1451030 A1 20160304; SE 539425 C2 20170919

DOCDB simple family (application)  
**EP 15183694 A 20150903**; SE 1451030 A 20140903