

Title (en)
HAMMERING APPARATUS

Title (de)
HAMMERVORRICHTUNG

Title (fr)
APPAREIL DE MARTELAGE

Publication
EP 2655748 B1 20181128 (EN)

Application
EP 11833905 A 20111021

Priority
• FI 20100353 A 20101021
• FI 2011000043 W 20111021

Abstract (en)
[origin: WO2012052601A1] Hammering apparatus functioning with a pressurized medium, such as a pressure fluid of a hydraulic system which hammering apparatus comprises an elongated body (19) to be attached to a power tool, a movable impact mass (10) adjusted to rest on the body (19) for which impact mass a linear control part is adjusted to the mentioned body (19) and an arrangement for lifting up the movable mass (10) for the impact comprising the first cylinder (20) and a piston (16) which can be moved in it with the help of pressure fluid and a piston rod (1) in which case in the arrangement the mentioned piston rod (1) is attached to the mentioned mass (10) and comprises a valve arrangement (15) with the help of which the pressure of the hydraulic fluid can be directed to the first cylinder (20) to the other side of the piston (16) for the uplifting of the mass (10) and the mentioned pressure can be suddenly reduced when the mass (10) is being directed to impact. During the impact of the mass (10) the hydraulic fluid or a part of it coming back from the cylinder space (6) of the first cylinder (20) can be directed to an expanding space (2) inside the piston rod (1) with the help of a valve arrangement (15) in which case a harmful back pressure caused by the hydraulic fluid being removed from the front of the piston (16) is essentially reduced.

IPC 8 full level
E02D 7/10 (2006.01); **B25D 9/14** (2006.01); **F15B 15/00** (2006.01)

CPC (source: EP FI US)
B25D 9/12 (2013.01 - FI); **E02D 7/06** (2013.01 - EP US); **E02D 7/10** (2013.01 - FI US)

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

DOCDB simple family (publication)
WO 2012052601 A1 20120426; BR 112013009762 A2 20160719; EP 2655748 A1 20131030; EP 2655748 A4 20170315;
EP 2655748 B1 20181128; FI 123463 B 20130515; FI 20100353 A0 20101021; FI 20100353 A 20120422; RU 2013123291 A 20141127;
RU 2589777 C2 20160710; US 2014110141 A1 20140424

DOCDB simple family (application)
FI 2011000043 W 20111021; BR 112013009762 A 20111021; EP 11833905 A 20111021; FI 20100353 A 20101021;
RU 2013123291 A 20111021; US 201113880390 A 20111021