

Title (en)
RECIPROCATION PRESSURE INTENSIFIER

Title (de)
HUBKOLBENDRUCKVERSTÄRKER

Title (fr)
MULTIPLICATEUR DE PRESSION PAR MOUVEMENT ALTERNATIF

Publication
EP 2172649 A1 20100407 (EN)

Application
EP 08791048 A 20080710

Priority
• JP 2008062500 W 20080710
• JP 2007187110 A 20070718

Abstract (en)
A reciprocating pressure intensifier that compresses compression-targeted fluid into 20MPa to 400MPa by reciprocation of a piston plunger 3. In the reciprocating pressure intensifier, lubricating oil for axial sealing is injected by a lubricating-oil injection pump 7 into a gap between the piston plunger 3 and a cylinder liner 4 into which the piston plunger is inserted. In order to axially-seal the lubricating oil in the gap, the backward end of the piston plunger 3 is provided with a sealing member, and forward end of the piston plunger 3 is provided with no sealing member adjacent to the compression room.

IPC 8 full level
F04B 37/12 (2006.01); **F04B 53/14** (2006.01); **F04B 53/18** (2006.01)

CPC (source: EP)
F04B 37/12 (2013.01); **F04B 53/14** (2013.01); **F04B 53/143** (2013.01); **F04B 53/18** (2013.01)

Cited by
CN105041598A

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2172649 A1 20100407; **EP 2172649 A4 20140903**; **EP 2172649 B1 20160420**; JP 2009024554 A 20090205; JP 5069964 B2 20121107; WO 2009011284 A1 20090122

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EP 08791048 A 20080710; JP 2007187110 A 20070718; JP 2008062500 W 20080710