

Title (en)
Hydraulic pressure intensifiers

Title (de)
Hydraulische Druckübersetzer

Title (fr)
Intensificateurs hydrauliques

Publication
EP 2136085 A2 20091223 (EN)

Application
EP 09160204 A 20090514

Priority
GB 0811205 A 20080619

Abstract (en)
A hydraulic intensifier comprises a piston and cylinder assembly (1) having a first piston (3) in a chamber (4) of low pressure cylinder and a second piston (7) in a chamber (8) of a high pressure cylinder. The first and second pistons are coupled together and the first piston has a larger cross-sectional area than the second piston. A high pressure output (19) is coupled to the chamber of the high pressure cylinder, there being: means (13) for supplying low pressure hydraulic fluid to the chamber of the low pressure cylinder; an electrically operated directional control valve (11) for controlling the supply of low pressure hydraulic fluid to the chamber of the low pressure cylinder; and electronic means (14) for controlling operation of the directional control valve.

IPC 8 full level
F15B 3/00 (2006.01)

CPC (source: EP GB US)
E21B 33/0355 (2013.01 - GB); **F04B 9/105** (2013.01 - GB); **F04B 9/109** (2013.01 - GB); **F15B 3/00** (2013.01 - EP GB US)

Citation (applicant)
GB 2275969 A 19940914 - EUROP GAS TURBINES LTD [GB]

Cited by
EP2971453A4; FR2995039A1; CN103670940A; EP3872353A1; EP3722619A1; WO2014144916A2; US10240430B2

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2136085 A2 20091223; **EP 2136085 A3 20100630**; AU 2009202431 A1 20100114; BR PI0901915 A2 20100413; GB 0811205 D0 20080723; GB 2461061 A 20091223; US 2009317267 A1 20091224

DOCDB simple family (application)
EP 09160204 A 20090514; AU 2009202431 A 20090618; BR PI0901915 A 20090618; GB 0811205 A 20080619; US 48838709 A 20090619