

Title (en)
CYLINDER BLOCK ASSEMBLY FOR HYDRAULIC UNIT

Title (de)
ZYLINDERBLOCKANORDNUNG FÜR HYDRAULIKAGGREGAT

Title (fr)
ENSEMBLE BLOC DE CYLINDRE POUR UNITÉ HYDRAULIQUE

Publication
EP 3070330 A1 20160921 (EN)

Application
EP 16160853 A 20160317

Priority
US 201514661582 A 20150318

Abstract (en)
A cylinder block assembly 400 of a hydraulic unit includes a cylinder block 402 having a plurality of piston bores 404 arranged circumferentially about a central axis A of the cylinder block assembly 400 and extending through a first face 406 of the cylinder block. Each of the piston bores 404 has a pitch diameter defined radially with respect to the central axis A of the cylinder block assembly 400. A second face 412 of the cylinder block 402 has pressure ports 420 that extend from the piston bores 404. The cylinder block assembly 400 further includes a balance plate 414 coupled to the second face 412 of the cylinder block. The balance plate 414 includes apertures 418 that align with the pressure ports 420, where a cylinder block assembly outer length is defined between the first face 406 of the cylinder block and an outer face of the balance plate. A ratio of the pitch diameter to the cylinder block assembly outer length is between 1.24 and 1.27.

IPC 8 full level
F04B 1/20 (2006.01); **F16H 39/14** (2006.01)

CPC (source: EP US)
F01B 31/28 (2013.01 - US); **F03C 1/0647** (2013.01 - EP US); **F03C 1/0652** (2013.01 - EP US); **F04B 1/2021** (2013.01 - EP US); **F04B 1/2035** (2013.01 - EP US); **F04B 53/14** (2013.01 - US); **F04B 53/16** (2013.01 - US)

Citation (search report)
• [I] US 3585901 A 19710622 - MOON HARRY C JR, et al
• [I] US 2014009126 A1 20140109 - VANDERZYDEN HENRY R [US], et al

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

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