

Title (en)  
HYDRAULIC DRIVE SYSTEM FOR A CONSTRUCTION MATERIAL PUMP, AND CONSTRUCTION MATERIAL PUMP

Title (de)  
HYDRAULIKANTRIEBSSYSTEM FÜR EINE BAUSTOFFPUMPE UND BAUSTOFFPUMPE

Title (fr)  
SYSTÈME D'ENTRAÎNEMENT HYDRAULIQUE POUR UNE POMPE À MATÉRIAUX DE CONSTRUCTION ET POMPE A MATÉRIAUX DE CONSTRUCTION

Publication  
**EP 3807534 A1 20210421 (DE)**

Application  
**EP 19731183 A 20190607**

Priority  
• DE 102018209513 A 20180614  
• EP 2019064944 W 20190607

Abstract (en)  
[origin: WO2019238559A1] A hydraulic drive system (100) for a construction material pump (100) comprising: - a hydraulic circuit (101) for hydraulic fluid (HF); - a feed pump (2), which is designed to feed hydraulic fluid (HF) into the hydraulic circuit (101); - at least one controllable pressure-limiting valve unit (6, 24), which is designed for variable adjustment of a limit pressure (p30, p31/32) of hydraulic fluid (HF) of at least one portion (30, 31, 32) of the hydraulic circuit (101) within a pressure range (pmin, pmax); and - a control unit (27), which is designed to control the pressure-limiting valve unit (6, 24) according to at least one operating parameter (BP) of the hydraulic drive system (100) and/or according to the hydraulic fluid (HF) in such a way that the pressure-limiting valve unit (6, 24) adjusts the limit pressure (p30, p31/32) of the portion (30, 31, 32) of the hydraulic circuit (101).

IPC 8 full level  
**F04B 9/117** (2006.01); **F04B 15/02** (2006.01); **F04B 49/03** (2006.01); **F04B 49/06** (2006.01)

CPC (source: EP KR US)  
**F04B 9/1178** (2013.01 - EP KR); **F04B 15/02** (2013.01 - EP US); **F04B 15/023** (2013.01 - EP KR); **F04B 49/007** (2013.01 - KR); **F04B 49/03** (2013.01 - EP KR); **F04B 49/06** (2013.01 - EP KR); **F15B 15/20** (2013.01 - US); **E04G 21/02** (2013.01 - US); **F05B 2210/11** (2013.01 - KR)

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)  
**DE 102018209513 B3 20191017**; CN 112567132 A 20210326; CN 112567132 B 20230526; EP 3807534 A1 20210421; EP 3807534 B1 20230524; JP 2021528587 A 20211021; JP 7350788 B2 20230926; KR 102673424 B1 20240607; KR 20210020016 A 20210223; US 11231054 B2 20220125; US 2021164497 A1 20210603; WO 2019238559 A1 20191219

DOCDB simple family (application)  
**DE 102018209513 A 20180614**; CN 201980039769 A 20190607; EP 19731183 A 20190607; EP 2019064944 W 20190607; JP 2020569118 A 20190607; KR 20207035671 A 20190607; US 201917251661 A 20190607