

Title (en)

MECHANISM FOR COURSE AND FINE ADJUSTMENT OF FLOWS IN FIXED DISPLACEMENT PUMP

Title (de)

MECHANISMUS ZUR GROB- UND FEINANPASSUNG VON STRÖMUNGEN IN EINER KONSTANTPUMPE

Title (fr)

MÉCANISME POUR RÉGLAGE APPROXIMATIF ET PRÉCIS DE FLUX DANS UNE POMPE VOLUMÉTRIQUE FIXE

Publication

EP 3721092 A4 20210414 (EN)

Application

EP 18886990 A 20181204

Priority

- US 201715830592 A 20171204
- US 2018063804 W 20181204

Abstract (en)

[origin: WO2019113036A1] An angle adjustment mechanism for a pump and a motor includes a base, two eccentric bushings and a fixed link. The base has a hinge disposed between a motor flange and a pump flange and a pair of spaced apertures disposed opposite the hinge. The first eccentric bushing has a body portion received in a first of the apertures of the base and the second eccentric bushing has a body portion received in one of a second of the apertures of the base or an inner bore of the first eccentric bushing. The axial center line of the inner bore of the first eccentric bushing is offset from an axial center line of the body portion by a first distance and the axial center line of the inner bore of the second eccentric bushing is offset from an axial center line of the body portion by a second distance, wherein the second distance is different from the first distance.

IPC 8 full level

F04B 49/00 (2006.01); **F04B 1/00** (2020.01); **F04B 1/20** (2020.01); **F04B 1/30** (2020.01); **F04B 1/328** (2020.01); **F04B 49/12** (2006.01)

CPC (source: EP US)

F04B 1/20 (2013.01 - EP); **F04B 1/328** (2013.01 - EP); **F04B 9/02** (2013.01 - EP); **F04B 49/123** (2013.01 - EP US); **F04B 53/16** (2013.01 - EP)

Citation (search report)

- [A] US 5863187 A 19990126 - BENSLEY DOUGLAS S [US], et al
- [A] WO 2006042435 A1 20060427 - MARKUS LIEBHERR INTERNAT AG [CH], et al
- [A] DE 102014211664 A1 20151224 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
- [A] KR 20130106567 A 20130930 - KOREA MACH & MATERIALS INST [KR]
- [A] US 2013199362 A1 20130808 - HOOVER DAVID VANCE [US]
- [A] CN 104153960 A 20141119 - ZENG XINQUAN
- See references of WO 2019113036A1

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 2019113036 A1 20190613; DK 3721092 T3 20220613; EP 3721092 A1 20201014; EP 3721092 A4 20210414; EP 3721092 B1 20220316; ES 2911652 T3 20220520

DOCDB simple family (application)

US 2018063804 W 20181204; DK 18886990 T 20181204; EP 18886990 A 20181204; ES 18886990 T 20181204