

Title (en)

ROTARY DRIVE FOR PIVOTING TWO BOOM ARMS WHICH ARE CONNECTED TOGETHER IN AN ARTICULATED MANNER

Title (de)

DREHANTRIEB ZUM VERSCHWENKEN VON ZWEI GELENKIG MITEINANDER VERBUNDENEN MASTARMEN

Title (fr)

ENTRAÎNEMENT ROTATIF POUR FAIRE PIVOTER DEUX BRAS DE MÂT RELIÉS ENTRE EUX DE MANIÈRE ARTICULÉE

Publication

**EP 4051852 B1 20240731 (DE)**

Application

**EP 20804218 A 20201109**

Priority

- DE 102019135680 A 20191223
- EP 2020081449 W 20201109

Abstract (en)

[origin: WO2021129973A1] The invention relates to a rotary drive (100) for pivoting two boom arms (10, 10') which are connected together in an articulated manner, in particular two boom arms of a concrete distribution boom (12) of a mobile or stationary concrete pump, comprising a gearing mechanism (20) for converting a translational piston movement into a rotational movement for pivoting the boom arms. The gearing mechanism (20) comprises an output gear (22) with a circumferential clutch toothing (24) and two clutch elements (26, 27) which are hydraulically or electrically driven, wherein at least one clutch element (26, 27) meshes with the clutch toothing (24) of the output gear (22). According to the invention, a rotational movement of the output gear (22) is produced by two clutch elements (26, 27), each of which carries out a substantially circular movement in opposite directions. The invention additionally relates to a concrete distribution boom (12) with a corresponding rotary drive (100).

IPC 8 full level

**E04G 21/04** (2006.01); **F15B 15/04** (2006.01); **F15B 15/06** (2006.01)

CPC (source: EP)

**E04G 21/0445** (2013.01); **F15B 15/04** (2013.01); **F15B 15/06** (2013.01); **F15B 15/061** (2013.01)

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)

**DE 102019135680 B3 20201210**; EP 4051852 A1 20220907; EP 4051852 B1 20240731; WO 2021129973 A1 20210701

DOCDB simple family (application)

**DE 102019135680 A 20191223**; EP 2020081449 W 20201109; EP 20804218 A 20201109