

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

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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).

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