

Title (en)
DEVICE WITH AT LEAST ONE EXTENSION ARM OR SUPPORT ARM FOR MULTI-LINKED CRANE SHAPED EXTENSION ARMS, CONCRETE SPREADER COLUMNS AND SIMILAR

Title (de)
VORRICHTUNG MIT MINDESTENS EINEM AUSLEGER- ODER TRAGARM FÜR MEHRGLIEDRIGE KRANARTIGE AUSLEGER, BETONVERTEILERMASTE UND DGL.

Title (fr)
DISPOSITIF DOTE D'AU MOINS UN BRAS D'EXTENSION OU D'APPUI POUR FLECHES COMPOSEES DE TYPE GRUE, MATS DISTRIBUTEURS DE BETON ET ANALOGUE

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Abstract (en)
[origin: WO02052115A2] The invention relates to a device with at least one extension arm or support arm for multi-linked crane shaped extension arms, concrete spreader columns and similar, comprising at least one hydraulic differential cylinder for actuating a support arm. The cylinder comprises a hollow piston rod which has a tubular segment and two end pieces arranged on the ends of said segment, whereby at least one of the end pieces is welded on to the segment thereof. The welded joint is machined and the root of the weld is eliminated. At least one of the end pieces comprises a through opening which enables tool access in order to machine the hollow cavity of the hollow piston rod.

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Cited by
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DOCDB simple family (publication)
WO 02052115 A2 20020704; WO 02052115 A3 20021212; AT E417205 T1 20081215; BR 0116784 A 20040309; BR 0116784 B1 20111018; CN 1278051 C 20061004; CN 1488041 A 20040407; DE 10064365 A1 20020704; DE 10064365 B4 20101216; DE 50114572 D1 20090122; EP 1346157 A2 20030924; EP 1346157 B1 20081210; ES 2204359 T1 20040501; ES 2204359 T3 20090505; HK 1056384 A1 20040213; JP 2004524243 A 20040812; JP 4008815 B2 20071114; KR 100618139 B1 20060831; KR 20030072367 A 20030913; TR 200301826 T3 20040121; US 2004151544 A1 20040805; US 7007590 B2 20060307

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