

Title (en)  
Rotary encoder assembly with radial clearance compensation

Title (de)  
Radialspielausgleichende Drehwinkelgeberanordnung

Title (fr)  
Dispositif de capteur angulaire de rotation à équilibrage de jeu radial

Publication  
**EP 2423151 B1 20151111 (DE)**

Application  
**EP 11175629 A 20110727**

Priority  
DE 202010011721 U 20100824

Abstract (en)  
[origin: CA2748874A1] Rotary position transducer array for a rotary connection on a work machine, in particular for a crane rotary connection, between two rotary elements (1, 2) comprising an elastic roll-off element (3) which, coupled to the rotary position transducer (4), rolls off on the first rotary element (1) via its circumferential area (3a), wherein the rotary position transducer (4) detects the rotational movement about the rotational axis (R) of the roll-off element (3), and the roll-off element (3) is held, such that it can be translationally and/or rotationally adjusted, by the second rotary element (2) by means of a bearing (5), so as to vary the distance between the roll-off element (3) and the first rotary element (1).

IPC 8 full level  
**B66C 23/84** (2006.01)

CPC (source: EP US)  
**B66C 23/84** (2013.01 - EP US)

Citation (examination)

- DE 102004022770 A1 20051201 - KOENIG & BAUER AG [DE]
- DE 102008025027 A1 20091126 - KOENIG & BAUER AG [DE]

Citation (opposition)  
Opponent : Liebherr-Werk Ehingen GmbH,

- EP 1911717 A2 20080416 - MANITOWOC CRANE GROUP FRANCE [FR]
- DD 159516 A3 19830316 - PLANITZER GUNTER, et al
- US 3626225 A 19711207 - PAUWELS EDWARD M
- DE 19624074 A1 19971218 - BAYERISCHE MOTOREN WERKE AG [DE]
- US 6035736 A 20000314 - GYLLNER SVEN BERTIL RUD [SE], et al

Cited by  
CN107381363A; CN109019341A; EP3786100A1; IT201900015388A1; WO2015192283A1

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 202010011721 U1 20101021**; CA 2748874 A1 20120224; CA 2748874 C 20141223; EP 2423151 A1 20120229; EP 2423151 B1 20151111; EP 2423151 B2 20190501; US 2012117810 A1 20120517; US 8572855 B2 20131105

DOCDB simple family (application)  
**DE 202010011721 U 20100824**; CA 2748874 A 20110812; EP 11175629 A 20110727; US 201113215850 A 20110823