

Title (en)
ZERO POSITIONING FOR SENSOR

Title (de)
NULLLAGENPOSITIONIERUNG FÜR SENSOR

Title (fr)
POSITIONNEMENT D'UN CAPTEUR À SA POSITION ZÉRO

Publication
EP 2315954 A1 20110504 (DE)

Application
EP 09776138 A 20090811

Priority
• DE 2009050044 W 20090811
• DE 102008041634 A 20080828

Abstract (en)
[origin: WO2010022719A1] The invention relates to an arrangement for defining a zero position for a sensor which serves for measuring deflection movements of parts (10, 11) of a technical system which are connected to one another by a ball joint (1, 2, 3). The arrangement is composed of a joint housing (1), which is rigidly connected to a first part (10) of the system, of the ball joint (1, 2, 3), a ball pin (2, 3) which is rigidly connected to a second part (11) of the system, and a sensor (8, 9) which measures the deflection movements of the joint pin (2, 3) and which has at least two mutually complementary sensor elements, of which one is arranged on the joint pin (2, 3) and one is arranged on a part (10) of the system which is immovable relative to the joint housing (1). The lateral surface, which otherwise has a circular cross section, of the ball pin (2, 3) is flattened in an axial region (6) which is placed into positively locking engagement with a correspondingly formed inner contour of a mounting lug (5), through which the ball pin (2, 3) extends for the purpose of fastening the latter, or of a disc-shaped element (7), wherein in the latter case, the disc-shaped element (7) bears against the mounting lug (5) and is in turn fixed in the circumferential direction by means of positively locking engagement of the outer contour thereof with the part (11) which is connected to the ball pin (2, 3).

IPC 8 full level
F16C 11/06 (2006.01)

CPC (source: EP KR US)
F16C 11/06 (2013.01 - KR); **F16C 11/0604** (2013.01 - EP US); **F16C 41/00** (2013.01 - EP US); **G01D 11/30** (2013.01 - KR)

Citation (search report)
See references of WO 2010022719A1

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008041634 A1 20100304; CN 102138014 A 20110727; EP 2315954 A1 20110504; JP 2012500947 A 20120112; KR 20110053982 A 20110524; US 2011204881 A1 20110825; WO 2010022719 A1 20100304

DOCDB simple family (application)
DE 102008041634 A 20080828; CN 200980134910 A 20090811; DE 2009050044 W 20090811; EP 09776138 A 20090811; JP 2011524181 A 20090811; KR 20117004971 A 20090811; US 200913060500 A 20090811