

Title (en)
Sensor assembly for a construction machine

Title (de)
Sensoranordnung für eine Baumaschine

Title (fr)
Dispositif capteur pour une machine de construction

Publication
EP 2415934 B1 20151007 (DE)

Application
EP 10008250 A 20100806

Priority
EP 10008250 A 20100806

Abstract (en)
[origin: EP2415934A1] The arrangement (2) has a sensor (5) e.g. inductive sensor, capacitive sensor, ultrasonic sensor, mechanical sensor or contact-less sensor, for obtaining measuring data from a scanning region (6) or a scanning spot. An illumination device (8) is integrated into the arrangement for illuminating the scanning region or the spot. The illumination device sends visible and/or infrared light, and comprises an optic (10) for fixing a region (13) illuminated by the illumination device. The optics is adjusted to change a position and/or size of the illuminated region. The illumination device comprises light sources i.e. LEDs.

IPC 8 full level
E01C 19/00 (2006.01); **E01C 19/48** (2006.01)

CPC (source: EP US)
E01C 19/006 (2013.01 - EP US); **E01C 19/48** (2013.01 - EP US)

Citation (examination)
US 5352063 A 19941004 - ALLEN J DEWAYNE [US], et al

Citation (opposition)
Opponent : MOBA Mobile Automation AG,
• JP H0926318 A 19970128 - SEIKOSHA KK
• DE 102005040772 A1 20070118 - FRABA AG [DE]
• JP S60189017 A 19850926 - TAISEI DOURO KK, et al
• DE 102008023743 A1 20091119 - DYNAPAC GMBH [DE]
• DE 19911017 A1 20001019 - DAIMLER CHRYSLER AG [DE]
• EP 0542297 A1 19930519 - MOBA ELECTRONIC MOBIL AUTOMAT [DE]
• DE 3816198 C1 19890907
• US 2003117797 A1 20030626 - SOMMERS MATHEW [US], et al
• DE 202006013079 U1 20061228 - UHL PETER KARL [DE]

Cited by
EP3106562A1; US10633803B2; WO2016203037A1

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2415934 A1 20120208; EP 2415934 B1 20151007; CN 102373663 A 20120314; CN 102373663 B 20140129; JP 2012067583 A 20120405; JP 5722721 B2 20150527; PL 2415934 T3 20160429; US 2012033065 A1 20120209

DOCDB simple family (application)
EP 10008250 A 20100806; CN 201110218954 A 20110802; JP 2011164167 A 20110727; PL 10008250 T 20100806; US 201113193829 A 20110729