

Title (en)
Drive device for a crane

Title (de)
Antriebsvorrichtung für einen Kran

Title (fr)
Dispositif d'entraînement pour une grue

Publication
EP 2551234 B2 20171004 (DE)

Application
EP 12005211 A 20120716

Priority
DE 102011108893 A 20110729

Abstract (en)
[origin: EP2551234A1] The drive device has a lower carriage (2) arranged on lower chassis engine of an internal combustion engine. An upper carriage drive is driven by torque or power transmission unit by a drivable lower chassis engine. The torque or power transmission unit has a drive shaft, particularly a vertical shaft, and an angular gear. A clutch is provided, in the torque or power transmission unit, for coupling and uncoupling of the upper carriage drive.

IPC 8 full level
B66C 23/40 (2006.01); **B66C 23/38** (2006.01)

CPC (source: EP US)
B66C 13/20 (2013.01 - EP US); **B66C 23/38** (2013.01 - EP US)

Citation (opposition)
Opponent :
DE 953110 C 19561129 - MASCHF AUGSBURG NUERNBERG AG

Cited by
DE102012020821B4; CN114475561A; DE102012020821A1; EP3251997A1; US10106379B2; US8936118B2

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)
EP 2551234 A1 20130130; EP 2551234 B1 20140514; EP 2551234 B2 20171004; CN 102897033 A 20130130; CN 102897033 B 20191217; DE 102011108893 A1 20130131; DE 102011108893 B4 20131031; DE 102011108893 C5 20220512; JP 2013032224 A 20130214; US 2013025948 A1 20130131; US 8567539 B2 20131029

DOCDB simple family (application)
EP 12005211 A 20120716; CN 201210265363 A 20120727; DE 102011108893 A 20110729; JP 2012166913 A 20120727; US 201213559049 A 20120726