

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)  
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