

Title (en)  
Industrial vehicle with optical lift height measurement

Title (de)  
Flurförderzeug mit optischer Hubhöhenmessung

Title (fr)  
Chariot de manutention doté d'une mesure optique de la hauteur de levage

Publication  
**EP 2135837 B1 20120808 (DE)**

Application  
**EP 09163260 A 20090619**

Priority  
DE 102008029205 A 20080619

Abstract (en)  
[origin: EP2135837A1] The truck has a lifting gear (14) comprising a lifting frame (20) attached to a vehicle frame and a lifting arrangement moved relative to the lifting frame in a vertical direction (V). A measuring arrangement detects a movement of the lifting frame and/or the lifting arrangement relative to the vehicle frame in a contact-less manner. The measuring arrangement has optical sensors (32) for sampling a random surface configuration of the lifting frame and/or the lifting arrangement. The sensors are fastened at the lifting frame and turned towards an upper surface of the lifting arrangement. An independent claim is also included for a method for lifting height determination of a lifting gear of an industrial truck.

IPC 8 full level  
**B66F 9/075** (2006.01); **B66F 9/08** (2006.01); **B66F 9/24** (2006.01); **G01B 7/00** (2006.01)

CPC (source: EP US)  
**B66F 9/0755** (2013.01 - EP US); **B66F 9/08** (2013.01 - EP US); **B66F 9/24** (2013.01 - EP US)

Cited by  
EP2522620A1

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 TR

DOCDB simple family (publication)  
**EP 2135837 A1 20091223; EP 2135837 B1 20120808**; DE 102008029205 A1 20091224; US 2009319134 A1 20091224; US 2014129095 A1 20140508; US 8600628 B2 20131203; US 9511985 B2 20161206

DOCDB simple family (application)  
**EP 09163260 A 20090619**; DE 102008029205 A 20080619; US 201314068636 A 20131031; US 48793809 A 20090619