

Title (en)
MATERIAL HANDLING VEHICLE

Title (de)
MATERIALHANDHABUNGSFAHRZEUG

Title (fr)
VÉHICULE DE MANUTENTION DE MATÉRIAUX

Publication
EP 3521236 A1 20190807 (EN)

Application
EP 18154545 A 20180131

Priority
EP 18154545 A 20180131

Abstract (en)
Material handling vehicle (1) comprising a mast (2), vehicle chassis (3), and a protruding load carrying section (4), wherein the mast (2) comprises at least two vertical and parallel beams (2a, 2b) that are separated in transversal direction of the material handling vehicle (1), further two support legs (7, 8) are comprised comprising each a wheel (13, 14), further comprised is a load carrier (22) movably attached to the mast (2), and movable by at least one comprised load hydraulic lift cylinder (31, 32), wherein the support legs (7, 8) are fixedly attached to the mast (2) and the chassis (3) comprises a first section (3a) and a second section (3b) in longitudinal direction, wherein the second section (3b) extends through a plane (5) adjacent and parallel with the extension of the parallel vertical beams (2a, 2b) of the mast (2), wherein the plane is positioned on the side of the mast (2) that is opposite the load carrying section (4).

IPC 8 full level
B66F 9/075 (2006.01); **B66F 9/08** (2006.01)

CPC (source: CN EP)
B66F 9/06 (2013.01 - CN); **B66F 9/075** (2013.01 - CN); **B66F 9/07504** (2013.01 - CN); **B66F 9/07513** (2013.01 - EP); **B66F 9/0755** (2013.01 - CN); **B66F 9/07581** (2013.01 - CN); **B66F 9/08** (2013.01 - CN EP); **B66F 9/22** (2013.01 - CN)

Citation (search report)
• [XAYI] WO 2013055585 A1 20130418 - CROWN EQUIP CORP [US], et al
• [X] DE 102009020947 A1 20101118 - JUNGHEINRICH AG [DE]
• [X] US 3265158 A 19660809 - FREDERICK CONSTABLE CHARLES
• [X] GB 996981 A 19650630 - WILLIAM AVERY BOURKE
• [A] DE 102010012749 A1 20110929 - KUKA LAB GMBH [DE]
• [Y] US 2015120125 A1 20150430 - THOMSON JACOB JAY [NZ], et al
• [A] CN 107337153 A 20171110 - YANCHENG SHENGYANG ELECTRONIC TECH CO LTD
• [Y] EP 3205619 A1 20170816 - BT PRODUCTS AB [SE]

Cited by
CN113104575A; EP4174015A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3521236 A1 20190807; **EP 3521236 B1 20240327**; CN 110092321 A 20190806; CN 110092321 B 20221021

DOCDB simple family (application)
EP 18154545 A 20180131; CN 201910033391 A 20190114