

Title (en)
Straddle carrier

Title (de)
Portalhubstapler

Title (fr)
Chariot cavalier

Publication
EP 2128074 A1 20091202 (EN)

Application
EP 09161064 A 20090526

Priority
FI 20085520 A 20080530

Abstract (en)
The invention concerns a straddle carrier, which comprises a portal body (11), to which belong essentially vertical supporting pillars (13a, 13b), and an upper body (15) connecting them at the top and to which are mounted the necessary hoisting devices for hoisting and supporting containers (1, 2). On each side of the straddle carrier (10) at the lower end of the supporting pillars (13a, 13b) there are wheels (12) carrying the portal body (11), and in between both front and rear supporting pillars (13a, 13b) the straddle carrier's (10) transverse hoisting beams (20) are arranged for movement in the vertical direction as well as the necessary means for gripping containers (1, 2). The means for gripping containers (1, 2) comprise two container spreaders (16a, 16b), which are suspended from the hoisting beams (20) and are arranged in parallel in relation to the straddle carrier's (10) driving direction. The hoisting devices for hoisting and supporting containers (1, 2) comprise one common hoisting mechanism (18), which is connected through hoisting ropes (28a, 28b) or other such hoisting means to the hoisting beams (20) for handling parallel containers (1, 2) at the same time.

IPC 8 full level
B66C 19/00 (2006.01)

CPC (source: EP FI)
B66C 1/663 (2013.01 - FI); **B66C 17/20** (2013.01 - FI); **B66C 19/007** (2013.01 - EP FI); **B66F 9/00** (2013.01 - FI)

Citation (applicant)
FI 107142 B 20010615 - KALMAR IND OY AB [FI]

Citation (search report)
• [XP] EP 2048106 A1 20090415 - NOELL MOBILE SYSTEMS GMBH [DE]
• [A] WO 2006083231 A1 20060810 - NSL ENGINEERING PTE LTD [SG], et al
• [A] DE 10355946 A1 20050707 - NOELL MOBILE SYSTEMS & CRANES [DE]

Cited by
CN113353663A; CN104071725A; CN104122893A; PL423552A1; US11299376B2; WO2016005335A1; WO2012168070A3; WO2017063952A1

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 2128074 A1 20091202; **EP 2128074 B1 20120307**; AT E548316 T1 20120315; CN 101597016 A 20091209; CN 101597016 B 20140212; ES 2380181 T3 20120509; FI 20085520 A0 20080530; FI 20085520 L 20091201; MY 151776 A 20140714; SG 157339 A1 20091229

DOCDB simple family (application)
EP 09161064 A 20090526; AT 09161064 T 20090526; CN 200910159526 A 20090527; ES 09161064 T 20090526; FI 20085520 A 20080530; MY PI20092195 A 20090528; SG 2009036138 A 20090528