

Title (en)
METHOD AND APPARATUS FOR TRANSPORTING ELONGATED, CUMBERSOME LOADS

Title (de)
VERFAHREN UND ANORDNUNG ZUM TRANSPORT LANGGESTRECKTER, SPERRIGER LASTEN

Title (fr)
PROCÉDÉ ET DISPOSITIF DE TRANSPORT DE CHARGES ALLONGÉES ET ENCOMBRANTES

Publication
EP 2262682 A1 20101222 (DE)

Application
EP 09720553 A 20090309

Priority
• EP 2009052705 W 20090309
• DE 102008013638 A 20080311

Abstract (en)
[origin: CA2755046A1] Elongated, cumbersome goods are transported using articulated trucks and unloaded using a crane. A method and an apparatus for transporting and use as crane for elongated, cumbersome loads over wide distances even under unfavorable infrastructure is proposed comprising a cable-guided lifting member, wherein when changing the transport mode to the crane mode the transported goods remain in the transport unit and the process is remotely controllable from the ground. In the transport mode, the load (20), the center of gravity of which is held in a rotating and tilting load bearing unit (2) connected to the support cable (7, 12) is pulled by transport winch cables (4) fastened to the lower rotating catch (10) of the load bearing unit (2) of mobile controllable winches (14), wherein the crane winch cables (5) are raised by lifting cables (6) by remote control to the crane node (1) and secured with a lowered transport securing ring (9). In crane mode, the securing of the crane winch cables (5) is raised and the crane winch cables (5) are lowered from the crane node (1) to the controllable winches (14) and connected to the transport winch cables (4). By changing the free length of the individual transport winch cables (4) connected to the crane winch cables (5), the load (20) is brought to the required position. The method and the apparatus for transporting and use as crane for elongated, cumbersome loads using a cable-guided lifting member are particularly suited for transporting and installing wings for wind energy systems in rough and winding terrain.

IPC 8 full level
B64B 1/50 (2006.01); **B64B 1/66** (2006.01)

CPC (source: EP US)
B64B 1/50 (2013.01 - EP US); **B64D 1/22** (2013.01 - EP US); **F03D 13/40** (2016.05 - EP US); **Y02E 10/72** (2013.01 - EP US)

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

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102009003596 A1 20090917; CA 2755046 A1 20090917; EP 2262682 A1 20101222; RU 2010140519 A 20120420; RU 2470802 C2 20121227; US 2011116905 A1 20110519; WO 2009112447 A1 20090917

DOCDB simple family (application)
DE 102009003596 A 20090310; CA 2755046 A 20090309; EP 09720553 A 20090309; EP 2009052705 W 20090309; RU 2010140519 A 20090309; US 92208609 A 20090309