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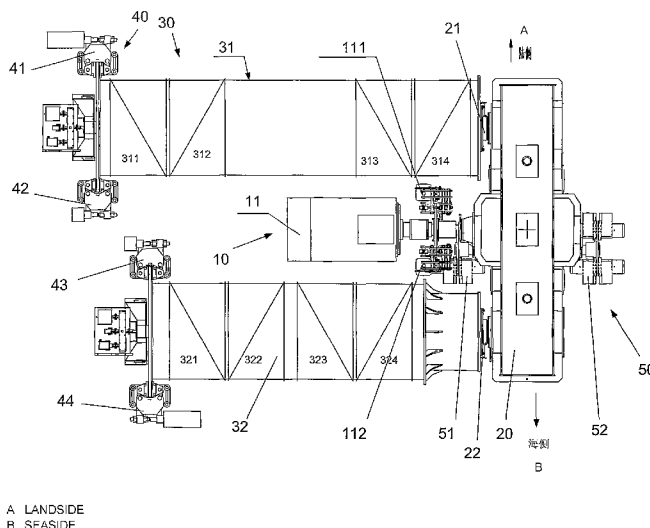
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(54) Title: A DOUBLE-DRUM DIFFERENTIAL LIFTING MECHANISM FOR CONTAINER CRANE CAPABLE OF SLINGING DOUBLE 40-FT CONTAINER SHORESIDE

(54) 发明名称: 双 40 英尺岸边集装箱起重机两卷筒差动式起升机构



(57) Abstract: The invention discloses a double-drum differential lifting mechanism for a container crane capable of slinging double 40-ft containers, which comprises motors, reducers and the corresponding speed brakes, winch drums and the corresponding brakes. It characterizes in that at least one motor is provided; the reducer connected to the output-end of the motor is planetary differential reducer, which provided with high speed input shaft, low speed output shaft and differential output shaft; the high speed input shaft is connected to the output-end of the motor, at least one high speed brake is provided on the high speed input shaft; two four-wire winch drums are connected to two low speed output shafts; winch drum brakes are arranged on the corresponding winch drums; differential shaft brakes being constituted of at least two differential shaft brakes arranged on the two differential output shafts; revolving of the two differential output shafts of the planetary differential reducer is controlled by two differential shaft brakes, so as to dispense the power of planetary differential reducer, thereby achieves the synchronous operation of the double slings or else the independent operation of a single sling to meet the requirement of load and unload, and the efficiency of container crane for load and unload can be improved by at least 60%, so it would be quite practical.

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MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW。

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根据细则4.17的声明:

- 关于申请人有权申请并被授予专利(细则4.17(ii))
- 发明人资格(细则4.17(iv))

本国际公布:

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(57) 摘要: 本发明涉及一种双40英尺岸边集装箱起重机两卷筒差动式起升机构, 包括: 电机、减速器及其高速制动器、卷筒及其卷筒制动器; 其特点是: 至少设置一电机; 连接在电机输出端的减速器是行星差动减速器, 它有高速输入轴、低速输出轴和差动出轴; 高速输入轴与电机输出轴连接, 高速输入轴上至少设置一高速制动器; 两低速输出轴上连接两个四出绳卷筒; 各卷筒上至少设置一卷筒制动器; 还包括差动轴制动器, 它由设置在两差动出轴上的至少两差动轴制动器组成; 通过两差动轴制动器控制行星差动减速器的两差动出轴的转动, 达到对行星差动减速器的动力分配, 实现双吊具同步或单吊具作业, 从而满足装卸需求, 并使集装箱起重机装卸效率提高60%以上, 因此极为实用。