

Title (en)

Apparatus for remotely operating crane apparatus, crane apparatus, and system for remotely operating crane apparatus

Title (de)

Vorrichtung für den Fernbetrieb eines Krans, Kran und System für den Fernbetrieb eines Krans

Title (fr)

Appareil pour la commande à distance d'une grue, grue, et système de commande à distance d'une grue

Publication

**EP 1748335 A3 20090812 (EN)**

Application

**EP 06003286 A 20060217**

Priority

JP 2005218856 A 20050728

Abstract (en)

[origin: EP1748335A2] There is provided a remote-operating apparatus for remotely operating a plurality of crane apparatuses performing loading and unloading in a container yard. The remote-operating apparatus includes a reception unit for receiving video signals showing loading and unloading states transmitted from the plurality of crane apparatuses; and a monitor for displaying an image based on a received video signal. The identification information of the crane apparatus that has sent the received video signal is displayed in part of the image displayed on the monitor.

IPC 8 full level

**G05B 19/048** (2006.01)

CPC (source: EP KR)

**B66C 13/40** (2013.01 - EP); **B66C 13/46** (2013.01 - EP); **B66C 13/48** (2013.01 - EP); **B66C 19/007** (2013.01 - EP); **E03F 5/08** (2013.01 - KR); **E03F 5/101** (2013.01 - KR); **E03F 5/105** (2013.01 - KR); **E03F 5/14** (2013.01 - KR)

Citation (search report)

- [YD] JP 2004123367 A 20040422 - MITSUBISHI HEAVY IND LTD
- [Y] US 2002075244 A1 20020620 - TANI MASAYUKI [JP], et al
- [Y] WO 9424032 A1 19941027 - ROBOTIC CONTAINER HANDLING CO [US]
- [Y] EP 1102489 A1 20010523 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Cited by

CN107450545A; EP3275831A1; CN104360650A; CN112859708A; EP3418244A1; CN102134042A; DE102017112661A1; CN110602451A; EP2730532A1; CN104781180A; BE1021475B1; DE102015016848A1; US2019100414A1; RU2731939C2; US10906784B2; US11753281B2; EP3699135A1; CN111606200A; US10954108B2; US11377329B2; US9549105B2; WO2018229067A1; WO2017108194A1; WO2014072509A1; WO2018224408A1; US11702323B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1748335 A2 20070131**; **EP 1748335 A3 20090812**; JP 2007031102 A 20070208; KR 20070014934 A 20070201; SG 129341 A1 20070226; SG 149873 A1 20090227; TW 200705144 A 20070201; TW I297818 B 20080611

DOCDB simple family (application)

**EP 06003286 A 20060217**; JP 2005218856 A 20050728; KR 20060011019 A 20060206; SG 200601029 A 20060216; SG 2009004508 A 20060216; TW 95101949 A 20060118