

Title (en)

Power feeding device and rubber tired gantry crane including the same

Title (de)

Stromspeisungsvorrichtung und bereifter Brückenkran damit

Title (fr)

Dispositif d'alimentation électrique et portique sur pneus l'incluant

Publication

EP 2354075 A1 20110810 (EN)

Application

EP 10171615 A 20100802

Priority

JP 2010025041 A 20100208

Abstract (en)

A power feeding device includes two storage batteries (45, 46) and supplies power to a load (25A to 25D, 28, 29, 76) of an RTG 18 from one of the two storage batteries (45, 46) (the storage battery (45) (or the storage battery (46))). The other storage battery (46) (or the storage battery (45)) is connected to storage battery power feeding means (26,41 to 44, 91, 92) (such as a noncontact-type power feeding system) and thus put in a chargeable state of being charged with power supplied from the storage battery power feeding means (26,41 to 44,91,92) . The power feeding device simultaneously allows discharge of the storage battery (45) (or the storage battery (46)) in the discharge state and charge of the storage battery (46) (or the storage battery (45)) in the chargeable state. In addition, the power feeding device comprises storage battery switching means (storage battery switching switches (47, 48) and a control device (77)) for repeatedly performing storage battery switching to switch the storage battery (45) (or the storage battery (46)) in the discharge state to the chargeable state and at the same time to switch the storage battery (46) (or the storage battery (45)) in the chargeable state to the discharge state.

IPC 8 full level

B66C 13/12 (2006.01); **B60L 11/18** (2006.01); **B66C 19/00** (2006.01)

CPC (source: EP)

B66C 13/12 (2013.01); **B66C 19/007** (2013.01)

Citation (applicant)

- JP 2009242088 A 20091022 - MITSUI SHIPBUILDING ENG
- JP 2009023816 A 20090205 - MITSUI SHIPBUILDING ENG

Citation (search report)

- [A] WO 2009123041 A1 20091008 - MITSUI SHIPBUILDING ENG [JP], et al
- [AD] JP 2009023816 A 20090205 - MITSUI SHIPBUILDING ENG
- [A] EP 1223653 A1 20020717 - TOKYO R & D KK [JP]

Cited by

WO2018073279A1; EP2974992A4; DE102016120115A1; CN108306321A; CN115871465A; CN107650711A; US9771245B2; WO2012136667A1; WO2014119906A1; WO2013050447A3; WO2012136664A1; US10781080B2

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2354075 A1 20110810; CN 102148513 A 20110810; CN 102148513 B 20140820; JP 2011162287 A 20110825; KR 101214295 B1 20121220; KR 20110092195 A 20110817; SG 173954 A1 20110929

DOCDB simple family (application)

EP 10171615 A 20100802; CN 201010249292 A 20100810; JP 2010025041 A 20100208; KR 20100076176 A 20100809; SG 2011004777 A 20110124