

Title (en)
MARINE LOADING ARM

Title (de)
SCHIFFFLADEARM

Title (fr)
BRAS DE CHARGEMENT MARIN

Publication
EP 2543624 A1 20130109 (EN)

Application
EP 12175121 A 20120705

Priority
IT MI20111253 A 20110706

Abstract (en)
A marine loading arm (1) comprises a plurality of component arm parts including a support column (12) and one or more mutually movable arm elements (10, 38) driven by a driving system controlled by electric motors (24, 32, 48) and respective mechanical transmission or drive units (26, 34, 50).

IPC 8 full level
B67D 9/02 (2010.01)

CPC (source: EP)
B67D 9/02 (2013.01)

Citation (search report)

- [XY] GB 880699 A 19611025 - MAURICE NORTHROP QUADE, et al
- [XY] WO 2009141675 A1 20091126 - FMC TECHNOLOGIES SA [FR], et al
- [Y] JP 2004155471 A 20040603 - NIIGATA LOADING SYSTEMS LTD
- [Y] JP S61123100 U 19860802
- [A] GB 1128060 A 19680925 - EDWARD SLATER SHEIRY
- [A] US 4090538 A 19780523 - KOTCHARIAN MICHEL
- [A] NL 111377 C

Cited by
DE202019000614U1; EP2757067A1; JP2016529175A; US10941032B2; WO2019046624A1; US11591207B2; FR3064620A1; CN110461763A; KR20190131091A; JP2020512245A; RU2754250C2; WO2018178368A1

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2543624 A1 20130109; EP 2543624 B1 20160601; IT MI20111253 A1 20130107

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