

Title (en)
CONSTRUCTION MACHINE

Title (de)
BAUMASCHINE

Title (fr)
ENGIN DE CHANTIER

Publication
EP 3680396 A4 20210421 (EN)

Application
EP 18853803 A 20180831

Priority
• JP 2017173095 A 20170908
• JP 2018032395 W 20180831

Abstract (en)
[origin: EP3680396A1] Access steps (23) on the upper revolving structure (3) side are provided with a hinge mechanism (25) as a camera support member for supporting a side monitoring camera (30) monitoring rightward opposite to a cab (18) in a left-and-right direction. The hinge mechanism (25) as a camera support member is configured capable of moving between a monitoring position at which the side monitoring camera (30) monitors rightward by protruding above the access steps (23) and a retreating position at which the side monitoring camera (30) is retreated downward from the monitoring position.

IPC 8 full level
E02F 9/24 (2006.01); **E02F 9/26** (2006.01)

CPC (source: EP)
E02F 9/0833 (2013.01); **E02F 9/0858** (2013.01); **E02F 9/264** (2013.01)

Citation (search report)
• [I] WO 2017032670 A1 20170302 - CATERPILLAR SARL [CH]
• [A] JP 2016212344 A 20161215 - KOBELCO CONTSTRUCTION MACHINERY LTD
• [A] JP 2012117225 A 20120621 - HITACHI CONSTRUCTION MACHINERY
• [A] JP 2009167747 A 20090730 - KOMATSU MFG CO LTD
• [A] US 2017159262 A1 20170608 - TAKIMOTO MITSUYUKI [JP], et al
• See references of WO 2019049787A1

Cited by
DE202022107076U1

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

DOCDB simple family (publication)
EP 3680396 A1 20200715; EP 3680396 A4 20210421; EP 3680396 B1 20231011; CN 110337516 A 20191015; CN 110337516 B 20210924; JP 2019049117 A 20190328; JP 6842392 B2 20210317; WO 2019049787 A1 20190314

DOCDB simple family (application)
EP 18853803 A 20180831; CN 201880014383 A 20180831; JP 2017173095 A 20170908; JP 2018032395 W 20180831