Title (en)

AUTOMATIC UNLOADING LIFTING MECHANISM

Title (de)

AUTOMATISCHER ENTLADEHEBEMECHANISMUS

Title (fr)

MÉCANISME DE LEVAGE DE DÉCHARGEMENT AUTOMATIQUE

Publication

EP 3766824 A4 20211208 (EN)

Application

EP 20760358 A 20200522

Priority

- CN 201910434425 A 20190523
- CN 2020091793 W 20200522

Abstract (en)

[origin: EP3766824A1] Disclosed is an automatic unloading and lifting mechanism, which includes: a frame, a cargo box, a motor and a transmission component arranged on the frame; the cargo box is slidably arranged on the transmission component, the transmission component is configured to drive the cargo box to move up and down, and the motor is connected to the transmission component; the cargo box is provided with a delivery port at a top of the cargo box, a discharge port at a front end of the cargo box, a bottom plate arranged to be inclined at the front end so that cargo in the cargo box slides toward the discharge port, and a turning plate hinged with and configured for blocking the discharge port of the cargo box; the frame is provided with a supporting column for supporting the turning plate to block the discharge port. The mechanism has the advantages of simple structure, convenient installation and low cost, and thus can greatly improves the efficiency of lifting and unloading.

IPC 8 full level

B66F 9/02 (2006.01)

CPC (source: CN EP)

B66F 7/00 (2013.01 - CN); **B66F 7/28** (2013.01 - CN); **B66F 9/02** (2013.01 - EP)

Citation (search report)

- [A] CN 205366774 U 20160706 - CHINA ELECTRONICS HARVEST TECH CO LTD
- [A] DE 9309399 U1 19930826 - M & S WERNER KONSTRUKTIONS GMB [DE]
- [A] CN 204802663 U 20151125 - LI JUN
- See references of WO 2020233704A1

Cited by

CN113526172A

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 3766824 A1 20210120; **EP 3766824 A4 20211208**; **EP 3766824 B1 20230712**; CN 110217718 A 20190910; CN 110217718 B 20210126; WO 2020233704 A1 20201126

DOCDB simple family (application)

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