

Title (en)

AUTO-LOADER AND VEHICLE COMPRISING AN AUTO-LOADER

Title (de)

AUTOLADER SOWIE FAHRZEUG MIT EINEM AUTOLADER

Title (fr)

CHARGEUR AUTOMATIQUE AINSI QUE VÉHICULE ÉQUIPÉ D'UN CHARGEUR AUTOMATIQUE

Publication

EP 3781893 A1 20210224 (DE)

Application

EP 19711319 A 20190313

Priority

- DE 102018109154 A 20180417
- EP 2019056297 W 20190313

Abstract (en)

[origin: WO2019201518A1] The invention relates to a vehicle, in particular a tank, comprising a turret (1), in particular a tank turret, on which a gun (2) having a large-calibre gun barrel (3) is secured, and comprising an auto-loader (50) positioned behind the turret (1), by means of which auto-loader ammunition (5) can be automatically supplied to the gun barrel (3). In order to achieve simplified automatic loading of the gun barrel (3) with ammunition (5) in comparison to known vehicles, without impairing the survival capabilities of the crew as a result, according to the invention the auto-loader (50) is replaceably secured on the outside of the turret (1) as a separate, modular unit. For rapid deployment, a magazine (8) located in the auto-loader (50) for receiving the ammunition (5) can also be designed as an interchangeable magazine that can be replaced. An electronic system (24) of the auto-loader (50) is housed in the vehicle, specifically in the turret (1). The selection of ammunition in the auto-loader (50) and the conveying of the ammunition (5) out of the auto-loader (50) are carried out via at least one mechanical interface (25), e.g. a power take-off, between the turret (1) and the auto-loader (50).

IPC 8 full level

F41A 9/64 (2006.01); **F41A 9/76** (2006.01)

CPC (source: EP IL KR US)

F41A 9/11 (2013.01 - IL US); **F41A 9/26** (2013.01 - IL US); **F41A 9/42** (2013.01 - IL US); **F41A 9/64** (2013.01 - EP IL KR); **F41A 9/76** (2013.01 - EP IL KR)

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)

DE 102018109154 A1 20191017; DK 3781893 T3 20230828; EP 3781893 A1 20210224; EP 3781893 B1 20230705; ES 2951807 T3 20231025; HU E063198 T2 20231228; IL 277992 A 20201130; IL 277992 B1 20230401; IL 277992 B2 20230801; JP 2021516324 A 20210701; JP 6999836 B2 20220119; KR 102422095 B1 20220715; KR 20210002513 A 20210108; PL 3781893 T3 20240129; US 11268775 B2 20220308; US 2021239416 A1 20210805; WO 2019201518 A1 20191024

DOCDB simple family (application)

DE 102018109154 A 20180417; DK 19711319 T 20190313; EP 19711319 A 20190313; EP 2019056297 W 20190313; ES 19711319 T 20190313; HU E19711319 A 20190313; IL 27799220 A 20201012; JP 2020550170 A 20190313; KR 20207031456 A 20190313; PL 19711319 T 20190313; US 202017074253 A 20201019