

Title (en)

A SNAP HINGE WITH A DAMPER DEVICE

Title (de)

SCHNAPPSCHARNIER MIT EINER DÄMPFERVORRICHTUNG

Title (fr)

CHARNIÈRE À DÉCLIC DOTÉE D'UN DISPOSITIF D'AMORTISSEMENT

Publication

EP 3795790 A1 20210324 (EN)

Application

EP 20197051 A 20200918

Priority

- EP 19198760 A 20190920
- IT 201900017906 A 20191003

Abstract (en)

[origin: CN112539009A] Fastening hinge (1) with damping means, comprising a hinge arm (4) extending in a normal longitudinal direction (X-X) and a hinge cup (3) connected by first hinge means (11, 12, 13, 14, 15, 16) to reversibly transition from a closed hinge configuration to an open hinge configuration; the hinge further comprises a leaf spring (30) acting between the hinge cup and the hinge arm to enable the hinge (1) to be closed quickly and a damping device (2) generating a braking effect to slow down the approaching speed between the hinge cup (3) and the hinge arm (4), and advantageously, the leaf spring (30) and the damping device (2) are both located below the hinge arm (4). The hinge arms (4) are arranged parallel to each other side by side in the longitudinal direction (X-X) so as not to overlap each other in a plane perpendicular to the longitudinal side walls (4b) of the hinge arms (4).

IPC 8 full level

E05D 11/10 (2006.01); **E05F 5/00** (2017.01)

CPC (source: CN EP)

E05D 3/06 (2013.01 - CN); **E05D 3/142** (2013.01 - EP); **E05D 11/10** (2013.01 - CN); **E05D 11/1021** (2013.01 - EP); **E05F 1/1284** (2013.01 - CN); **E05F 3/20** (2013.01 - CN); **E05F 5/006** (2013.01 - EP); **E05Y 2201/264** (2013.01 - EP); **E05Y 2201/48** (2013.01 - EP); **E05Y 2900/20** (2013.01 - EP)

Citation (applicant)

- US 2004205935 A1 20041021 - LAUTENSCHLAEGER GERHARD WILHEL [DE], et al
- EP 3290624 B1 20190501 - LIANG YELIN [CN]

Citation (search report)

- [XYI] CN 106761096 A 20170531 - FOSHAN TIANSI HARDWARE CO LTD
- [X] EP 2176485 A1 20100421 - ZIMMER GUENTHER [DE], et al
- [YDA] EP 3290624 B1 20190501 - LIANG YELIN [CN]

Cited by

IT202100011615A1; IT202100031526A1; AT18223U1; WO2023111719A1

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 3795790 A1 20210324; EP 3795790 B1 20230125; CN 112539009 A 20210323; ES 2942728 T3 20230606

DOCDB simple family (application)

EP 20197051 A 20200918; CN 202010996830 A 20200921; ES 20197051 T 20200918