

Title (en)

DEVICE AND SYSTEM FOR RELEASING, MAINTAINING IN FLIGHT AND RECOVERING A TETHERED AEROSTAT

Title (de)

VORRICHTUNG UND SYSTEM ZUR FREISETZUNG, AUFRECHTERHALTUNG IM FLUG UND RÜCKGEWINNUNG EINES ANGEHUNDENEN LUFTBALLONS

Title (fr)

DISPOSITIF ET SYSTÈME DE LARGAGE, DE MAINTIEN EN VOL ET DE RÉCUPÉRATION D'UN AÉROSTAT CAPTIF

Publication

**EP 4240648 A1 20230913 (FR)**

Application

**EP 21810679 A 20211102**

Priority

- FR 2011246 A 20201103
- FR 2021051919 W 20211102

Abstract (en)

[origin: CA3196997A1] The invention relates mainly to a device and system for automatically releasing, maintaining in flight and recovering a tethered aerostat (2), comprising: ? a platform (3) having a rotatably movable part (5), a recovery device (7) for recovering the tethered balloon (2) secured to the movable part (5), and at least first (8) and second (9) winches; ? a first cable (10) referred to as umbilical cable connected to the first winch (8) and of which one end is designed to be secured to the aerostat (2), and ? a second cable (11) referred to as sling divided into at least one adapted mooring portion (12) of which one end is designed to be secured to the aerostat (2), and a connecting portion (13) connected to the second winch (9), said connecting portion (13) having a linear mass less than or equal to seven grams per metre and a length greater than that of the mooring portion (12).

IPC 8 full level

**B64B 1/50** (2006.01); **B64B 1/56** (2006.01); **B64B 1/66** (2006.01); **B64F 3/00** (2006.01)

CPC (source: EP IL US)

**B64B 1/52** (2013.01 - EP IL); **B64B 1/66** (2013.01 - EP IL); **B64F 1/14** (2013.01 - EP IL US); **B64F 3/00** (2013.01 - EP IL)

Citation (search report)

See references of WO 2022096816A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**FR 3115761 A1 20220506**; **FR 3115761 B1 20221125**; CA 3196997 A1 20220512; EP 4240648 A1 20230913; IL 302605 A 20230701; US 2023406538 A1 20231221; WO 2022096816 A1 20220512

DOCDB simple family (application)

**FR 2011246 A 20201103**; CA 3196997 A 20211102; EP 21810679 A 20211102; FR 2021051919 W 20211102; IL 30260523 A 20230502; US 202118034262 A 20211102