

Title (en)

AIRCRAFT LANDING GEAR PROVIDED WITH AN EDDY-CURRENT-BASED MAGNETIC BRAKING DEVICE

Title (de)

FLUGZEUGFAHRWERK MIT EINER WIRBELSTROMBASIERTEN MAGNETISCHEN BREMSVORRICHTUNG

Title (fr)

ATERRISSEUR D'AERONEF EQUIPE D'UN DISPOSITIF DE FREINAGE MAGNETIQUE A COURANT DE FOUCAULT

Publication

**EP 4371223 A1 20240522 (FR)**

Application

**EP 22751667 A 20220713**

Priority

- FR 2107629 A 20210714
- EP 2022069685 W 20220713

Abstract (en)

[origin: CA3225335A1] Eddy-current-based magnetic braking device comprising two external elements (2) flanking a central element (3) that is aligned with the same axis as the external elements and that rotates about said axis with respect to the external elements (2), the external elements (2) each bearing a plurality of magnets (11, 12, 13, 14) able to emit a magnetic flux engendering in the central element (3) eddy currents when the elements (2, 3) are in relative motion. The magnets are placed so as to generate a magnetic attraction between the external elements. Friction-based braking surfaces are joined so as to rotate as one with the external elements and with the central element, respectively. The external elements are moveable with respect to the axis between a proximate position of the central element, in which position the first braking surfaces are held applied against the second braking surfaces via the magnetic attraction, and a separated position of the central element, in which position the first braking surfaces are separated from the second braking surfaces. Aircraft wheel and landing gear comprising such a device.

IPC 8 full level

**H02K 49/04** (2006.01); **B60L 7/28** (2006.01); **B60T 13/74** (2006.01); **B64C 25/42** (2006.01); **B64C 25/44** (2006.01); **F16D 55/38** (2006.01); **F16D 65/18** (2006.01); **F16D 121/20** (2012.01)

CPC (source: EP US)

**B60L 7/24** (2013.01 - EP US); **B60L 7/28** (2013.01 - EP US); **B60L 15/2009** (2013.01 - EP); **B60T 13/746** (2013.01 - US); **B60T 13/748** (2013.01 - EP US); **B64C 25/42** (2013.01 - EP US); **B64C 25/44** (2013.01 - EP); **F16D 55/38** (2013.01 - EP US); **F16D 65/186** (2013.01 - EP US); **H02K 49/04** (2013.01 - US); **H02K 49/046** (2013.01 - EP); **B60L 2200/10** (2013.01 - EP US); **F16D 2121/20** (2013.01 - EP US); **F16D 2200/0013** (2013.01 - US); **F16D 2200/0021** (2013.01 - US)

Designated contracting state (EPC)

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Designated extension state (EPC)

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