

Title (en)

DAMPING UNIT FOR DISCONTINUOUSLY DAMPING A ROTATIONAL MOTION

Title (de)

DÄMPFUNGSAGGREGAT ZUR DISKONTINUIERLICHEN DÄMPFUNG EINER DREHBEWEGUNG

Title (fr)

ENSEMBLE D'AMORTISSEMENT POUR L'AMORTISSEMENT DISCONTINU D'UN MOUVEMENT DE ROTATION

Publication

**EP 2596191 B1 20190522 (DE)**

Application

**EP 10749772 A 20100723**

Priority

DE 2010075065 W 20100723

Abstract (en)

[origin: CN201933932U] The utility model relates to a buffering device used for discontinuously buffering rotational movement. At first, continuous door rotation is converted into discontinuous rotation of an output side via non-circular gears, the discontinuous rotation is buffered via a buffering element, and accordingly rotation of a rotating door and a similar entrance guard gate can be buffered by a discontinuous transmission. The buffering device adopts the two non-circular gears, the two gears have different developed curves, one gear is ovate while the other gear preferably can be provided with a developed curve which is ovate basically and opposite to the first gear arranged on a driving shaft, and the other gear is shortened and simultaneously is widened. Accordingly, matched buffering change curves are obtained and allow the rotating door to rotate uniformly. Similarly, the arrangement mode allows a motor type driving device, and the driving device can operate in a constant rotation speed and simultaneously realizes easiness in final position operation of the driven entrance guard gate due to sine or cosine inverse function curves set by the transmission.

IPC 8 full level

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CPC (source: EP)

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- DE 102005030725 A1 20070104 - CONTINENTAL AG [DE]
- DE 19601300 A1 19970717 - VDW EV [DE]

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