

Title (en)

Electromagnetic rail brake device with multi-part solenoid

Title (de)

Elektromagnetische Magnetschienenbremsvorrichtung mit mehrteiliger Spule

Title (fr)

Frein sur rail électromagnétique avec solénoïde en plusieurs parties

Publication

**EP 2192019 B1 20120307 (DE)**

Application

**EP 10001504 A 20080320**

Priority

- EP 08716658 A 20080320
- DE 102007014717 A 20070323

Abstract (en)

[origin: EP2192019A1] The device has a brake magnet (2) e.g. fixed magnet, with a magnetic coil element (8) that supports a magnetic coil (9). A horseshoe-shaped magnetic core (6) has a yoke (28) and bearers (42a, 42b). The coil vertically engages the yoke with an upper cover (30) and a lower cover (32). A cross-section of the coil in the upper cover exhibits a smaller height (h) and a wider breath (b) than a cross-section in the lower cover. The height of the cross-section of the coil is measured parallel and the width of the cross-section is measured transversally to a vertical central axis (38) of the magnet.

IPC 8 full level

**B61H 7/08** (2006.01)

CPC (source: EP KR US)

**B61H 7/04** (2013.01 - KR); **B61H 7/08** (2013.01 - EP KR US)

Cited by

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**WO 2008116597 A2 20081002; WO 2008116597 A3 20081218;** AT E481284 T1 20101015; AT E548241 T1 20120315; AU 2008232092 A1 20081002; CA 2681490 A1 20081002; CN 101641249 A 20100203; CN 101641249 B 20120725; CN 102358320 A 20120222; CN 102358320 B 20140702; DE 102007014717 B3 20081127; DE 502008001331 D1 20101028; DK 2139743 T3 20110103; DK 2192019 T3 20120521; EP 2139743 A2 20100106; EP 2139743 B1 20100915; EP 2192019 A1 20100602; EP 2192019 B1 20120307; ES 2352825 T3 20110223; ES 2382686 T3 20120612; HK 1135659 A1 20100611; HR P20100512 T1 20101130; HR P20120384 T1 20120531; JP 2010521373 A 20100624; JP 5306316 B2 20131002; KR 101440655 B1 20141103; KR 20090125261 A 20091204; PL 2139743 T3 20110331; PL 2192019 T3 20120831; PT 2139743 E 20101012; PT 2192019 E 20120619; RU 2009139080 A 20110427; RU 2461481 C2 20120920; SI 2139743 T1 20110131; SI 2192019 T1 20120731; TW 200909270 A 20090301; TW I400171 B 20130701; US 2010101898 A1 20100429; US 8033365 B2 20111011

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**EP 2008002249 W 20080320;** AT 08716658 T 20080320; AT 10001504 T 20080320; AU 2008232092 A 20080320; CA 2681490 A 20080320; CN 200880009381 A 20080320; CN 201110261211 A 20080320; DE 102007014717 A 20070323; DE 502008001331 T 20080320; DK 08716658 T 20080320; DK 10001504 T 20080320; EP 08716658 A 20080320; EP 10001504 A 20080320; ES 08716658 T 20080320; ES 10001504 T 20080320; HK 10102445 A 20100309; HR P20100512 T 20100917; HR P20120384 T 20120508; JP 2010500120 A 20080320; KR 20097020389 A 20080320; PL 08716658 T 20080320; PL 10001504 T 20080320; PT 08716658 T 20080320; PT 10001504 T 20080320; RU 2009139080 A 20080320; SI 200830106 T 20080320; SI 200830633 T 20080320; TW 97110017 A 20080321; US 53197708 A 20080320