

Title (en)
Permanent-magnet railway brake.

Title (de)
Dauermagnetschienenbremse.

Title (fr)
Frein ferroviaire à aimant permanent.

Publication
EP 0087027 A1 19830831 (DE)

Application
EP 83101064 A 19830204

Priority
CH 112682 A 19820224

Abstract (en)
1. Permanent magnet rail brake (10) having a number of permanent magnets (12) arranged one after the other and having a number of ferromagnetic pole pieces (13) and wear bodies (14) arranged one after the other, characterised in that the poles of all permanent magnets (12) are arranged in the same direction and that the number of pole pieces (13) is twice as great as the number of permanent magnets (12), so that a permanent magnet is allocated to every second pole piece (13), and that the pole pieces (13) are arranged plate-like between the wear bodies (14) and the permanent magnets (12).

Abstract (de)
Um die Dauermagnetschienenbremse (10) einerseits möglichst klein und leicht bauen zu können und andererseits durch Verschiebung der permanentmagnete 12 den Magnetfluss beim Lösen der Bremse vollständig kurzschliessen zu können, werden erfindungsgemäss eine Anzahl von hintereinander angeordneten gleich polarisierten Permanentmagneten 12 verschiebbar gelagert, wobei jedem Permanentmagnet 12 zwei benachbarte Polstücke 13 einer Reihe von Polstücken 13 zugeordnet ist.

IPC 1-7
B61H 7/08

IPC 8 full level
B61H 7/08 (2006.01)

CPC (source: EP)
B61H 7/08 (2013.01)

Citation (search report)

- [Y] DE 2340470 A1 19750220 - KNORR BREMSE GMBH
- [Y] DE 971289 C 19590108 - BAERMANN MAX
- [A] GB 190919098 A 19091223 - DICK KERR AND COMPANY LTD [GB]
- [A] DE 1000850 B 19570117 - HANNING ROBERT
- [A] DE 1021410 B 19571227 - HANNING ROBERT
- [A] CH 393406 A 19650615 - BAERMANN MAX [DE]
- [A] GB 649784 A 19510131 - FREINS JOURDAIN MONNERET
- [A] FR 2259736 A1 19750829 - KNAPP HORST [DE]
- [A] CH 200232 A 19380930 - OERLIKON MASCHF [CH]
- [A] DE 2638133 A1 19780302 - BAERMANN MAX
- [AD] CH 380189 A 19640731 - KNORR BREMSE GMBH [DE]

Cited by
CN103717473A; DE102012014888B4; JP2020010544A; WO2013014237A3

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0087027 A1 19830831; EP 0087027 B1 19860416; DE 3362998 D1 19860522; NO 153291 B 19851111; NO 153291 C 19860219; NO 830060 L 19830825

DOCDB simple family (application)
EP 83101064 A 19830204; DE 3362998 T 19830204; NO 830060 A 19830110