

Title (en)  
Lifting device for the transport of products

Title (de)  
Haltevorrichtung für den Transport von Fördergut

Title (fr)  
Dispositif de levage pour le transport de produits

Publication  
**EP 0884268 A3 19990915 (DE)**

Application  
**EP 98109827 A 19980529**

Priority  
DE 19724634 A 19970611

Abstract (en)  
[origin: EP0884268A2] The holder device has at least one permanent magnet (2) to generate a permanent magnetic field. It also has at least one electric magnet coil (3) to generate a temporary magnetic field and to compensate the permanent magnetic field. The device also has a magnetically conductive housing (4). The permanent magnet (2) is magnetised in the direction of its smallest dimension. The permanent magnet (2) in the magnetisation direction (M) has one pole on a housing (4) forming a magnetic feedback. The other pole is arranged with an air gap relative to the conveyor parts. The housing (4) has in cross section two or more bridges (6) on a base plate (5). At least two magnet coils (3) which can be actuated independently on each other are provided in at least one bridge intermediate space. A permanent magnet (2) is provided in each bridge (6).

IPC 1-7  
**B66C 1/04**; **B66C 1/06**

IPC 8 full level  
**B66C 1/04** (2006.01); **H01F 7/02** (2006.01); **H01F 7/20** (2006.01)

CPC (source: EP US)  
**B66C 1/04** (2013.01 - EP US); **H01F 7/0252** (2013.01 - EP US); **H01F 7/206** (2013.01 - EP US); **H01F 2007/208** (2013.01 - EP US)

Citation (search report)  
• [AD] DE 3423482 C1 19851114 - THYSSEN EDELSTAHLWERKE AG  
• [A] DE 2321386 A1 19741114 - KRUPP GMBH  
• [A] US 4121865 A 19781024 - LITTWIN SR ROBERT L  
• [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 023 (M - 1541) 14 January 1994 (1994-01-14)  
• [A] DATABASE COMPENDEX [online] ENGINEERING INFORMATION, INC., NEW YORK, NY, US; PLACE JAMES R: "CERAMIC HOLDING MAGNETS", XP002109098, Database accession no. EIX76040003218 & MACH DES NOV 13 1975, vol. 47, no. 26, 13 November 1975 (1975-11-13), pages 119 - 121

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**DE 19724634 C1 19981210**; EP 0884268 A2 19981216; EP 0884268 A3 19990915; US 6288623 B1 20010911

DOCDB simple family (application)  
**DE 19724634 A 19970611**; EP 98109827 A 19980529; US 9578398 A 19980611