

Title (en)

A magnetic head for a magnetic display

Title (de)

Magnetkopf für ein magnetisches Display

Title (fr)

Tête magnétique pour un panneau d'affichage magnétique

Publication

**EP 0837440 A1 19980422 (EN)**

Application

**EP 97308356 A 19971021**

Priority

JP 29799596 A 19961021

Abstract (en)

A magnetic head (30) comprises a yoke (39) having a printing face (39a) which faces to a magnetic display sheet (10) and an air gap hole formed in the printing face (39a), a magnetic core (37) whose edge is inserted to the air gap hole for generating a dot-like recording magnetic field by magnetically coupling with the yoke (39), an electromagnetic coil (38) for supplying a magnetic field to the magnetic core (37) based on printing signals. The distribution of the recording magnetic field is optimised and it becomes possible to prevent a printed dot formed on the magnetic display sheet (10) from being hollowed by setting the diameter d of the edge of the magnetic core to be smaller than the diameter D of the air gap hole and to be 0.8 mm or less. Further, a clear and high density printed dot may be obtained on the magnetic display sheet (10) by setting the diameter D of the air gap hole to be 1.4 mm or less. Thus, high quality magnetic printing may be realised by optimising the distribution of the magnetic field to be generated by the magnetic core. <IMAGE>

IPC 1-7

**G09F 9/37**

IPC 8 full level

**G09F 9/37** (2006.01)

CPC (source: EP)

**G09F 9/375** (2013.01)

Citation (search report)

- [DA] EP 0258791 A2 19880309 - PILOT PEN CO LTD [JP] & JP S63259678 A 19881026 - PILOT PEN CO LTD
- [DA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 389 (P - 1095) 22 August 1990 (1990-08-22)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 096, no. 002 29 February 1996 (1996-02-29)

Cited by

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