

Title (en)

Electromagnet with heat transfer body

Title (de)

Elektromagnet mit Wärmeableitkörper

Title (fr)

Electro-aimant avec corps dissipateur de chaleur

Publication

**EP 0997916 A1 20000503 (DE)**

Application

**EP 99119999 A 19991014**

Priority

DE 19849588 A 19981027

Abstract (en)

The electromagnet (1) has a coil (3) surrounded by at least two outer metal surfaces (5). A heat sink (2) at least partially grips around at least one of outer surfaces, serving for heat transport (8,9) of the electromagnet. The heat sink has two limbs (6) each with an inner surface (10), which is positioned on a large area of one of the outer metal surfaces. The heat sink is preferably U-shaped and the electromagnet is installed in a housing (11) of an electric switching device, especially a position switch.

Abstract (de)

Erfindungsgemäß wird der Elektromagnet (1) mit einem Wärmeableitkörper (2) versehen, der mit zwei Schenkeln großflächig an zwei die Spule (3) umgebenden Metallaußenflächen (5) anliegt und mindestens eine zum Wärmetransport dienende Außenfläche (8,9) aufweist. <IMAGE>

IPC 1-7

**H01F 7/06**

IPC 8 full level

**H01F 7/06** (2006.01)

CPC (source: EP)

**H01F 7/06** (2013.01)

Citation (search report)

- [XA] EP 0736866 A2 19961009 - DISCOVISION ASS [US]
- [X] FR 2135777 A5 19721222 - MECALECTRO
- [A] US 4540966 A 19850910 - ZELKOWITZ PHILLIP [US]
- [A] US 3110874 A 19631112 - DOWDLE WALTER F, et al
- [A] DE 2403287 A1 19750807 - KRAUSS MAFFEI AG

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DE FR IT

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