

Title (en)  
MAGNET CORE FOR AN INTERFACE TRANSFORMER

Publication  
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Application  
**EP 89123354 A 19891218**

Priority  
DE 3900946 A 19890114

Abstract (en)  
[origin: EP0378823A2] In ISDN, the new digital communication system, transmission takes place between the network termination (2) and the terminals (3) via the so-called So interface by means of interface transformers (6, 11). Since some power is also supplied to the terminals via these transformers, current unbalance in the lines (7, 8) or (9, 10) results in bias magnetisation of the transformers. The ISDN requirements on the transformers must therefore also be met in the presence of DC current bias magnetisation. Compact transformers with a simple winding structure which meet ISDN requirements have, according to the invention, as their magnet core material an amorphous Co-based alloy with a permeability of more than 25 000 and less than 95 000. As well as Co, the magnet cores preferably contain essentially Fe and Mn with a total content of 3 to 8 atomic per cent and metalloids in a proportion of 24 to 29 atomic per cent and optionally up to 15 atomic per cent Ni and up to 1 atomic per cent Mo, Cr and/or Ni. <IMAGE>

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**H01F 1/15316** (2013.01); **H01F 3/00** (2013.01)

Citation (search report)  
• [AD] EP 0021101 A1 19810107 - VACUUMSCHMELZE GMBH [DE]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 193 (E-334)(1916) 09 August 1985, & JP-A-60 59708 (HITACHI KINZOKU K.K) 06 April 1985,

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US6118365A; WO0127946A1; WO9812847A1

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