

Title (en)  
IRON-BASE SOFT MAGNETIC ALLOY

Title (de)  
WEICHMAGNETLEGIERUNG AUF EISEN-BASIS

Title (fr)  
ALLIAGE MAGNETIQUE DOUX A BASE DE FER

Publication  
**EP 0513385 B1 19970212 (EN)**

Application  
**EP 91920808 A 19911129**

Priority  
• JP 33445290 A 19901130  
• JP 9101677 W 19911129

Abstract (en)  
[origin: EP0513385A1] A novel iron-base soft magnetic alloy having excellent soft magnetism, particularly a low coercive force and a high permeability in a high-frequency range, and low iron loss. This alloy is produced by adding a given amount of aluminum and preferably further given amounts of elements such as niobium to an Fe-Si-B alloy to give an amorphous alloy, forming the alloy into thin belt, powder, thin film, etc., and heat treating the resulting alloy, thus giving an alloy composed of at least 30% of a crystalline portion and the balance of an amorphous portion.

IPC 1-7  
**C22C 45/02**; **C22C 38/58**; **C22C 1/00**; **H01F 1/153**

IPC 8 full level  
**C22C 38/58** (2006.01); **C22C 45/02** (2006.01); **H01F 1/153** (2006.01)

CPC (source: EP KR)  
**C22C 38/58** (2013.01 - KR); **C22C 45/02** (2013.01 - EP KR); **H01F 1/15308** (2013.01 - EP)

Cited by  
EP2762902A3; EP0747498A1; EP0713925A1; EP1198605A4; CN1114217C; EP0899353A3; CN102982955A; CN104471097A; US7541909B2; WO2013173916A1; WO9725727A1; WO03067756A3; KR100452535B1; US7785428B2; US8097095B2

Designated contracting state (EPC)  
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