

Title (en)  
MN BASED ALLOY OF NONEQUILIBRIUM AUSTENITE PHASE

Publication  
**EP 0077611 B1 19860402 (EN)**

Application  
**EP 82305101 A 19820928**

Priority  
JP 15406481 A 19810929

Abstract (en)  
[origin: EP0077611A2] A Mn-based alloy is disclosed. The alloy is comprised of 4 to 30 atomic % of at least one element selected from the group consisting of Al, Ni, and Cr; 1 to 15 atomic % of C, 30 atomic % or less of at least one element selected from the group consisting of Co, Mo, W, Ta, Nb, V, Ti, and Zr; and the balance of alloy making up 100 atomic % being comprised substantially of Mn. The alloy has a nonequilibrium austenite phase. The alloy disclosed has high ductility and workability. The alloy is capable of being cold worked and has excellent tensile strength. The Mn-based alloy can be produced at substantially the same cost as any Fe-based alloy. The disclosed alloy is a nonmagnetic alloy which has been found to be very useful for nonmagnetic electromagnetic parts and composite materials.

IPC 1-7  
**C22C 22/00**

IPC 8 full level  
**C22C 22/00** (2006.01)

CPC (source: EP)  
**C22C 22/00** (2013.01)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0077611 A2 19830427; EP 0077611 A3 19830525; EP 0077611 B1 19860402**; CA 1198610 A 19851231; DE 3270276 D1 19860507; JP H0124854 B2 19890515; JP S5855548 A 19830401

DOCDB simple family (application)  
**EP 82305101 A 19820928**; CA 412373 A 19820928; DE 3270276 T 19820928; JP 15406481 A 19810929