

Title (en)

MN BASED ALLOY OF NONEQUILIBRIUM AUSTENITE PHASE

Publication

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Application

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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.

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