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(54) Title: MAGNESIUM-ALUMINUM-ZINC ALLOY, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF

(57) Abstract: The subject matter of the patent application relates to a magnesium alloy and to a method for the production thereof and to the use thereof, the magnesium alloy comprising: up to 6.0% by weight Zn, and preferably 2.0 to 4.0% by weight Zn, 2.0 to 10.0% by weight Al, and preferably 3.0 to 6.0% by weight Al, where % by weight Al $\geq$ % by weight Zn shall apply, the remainder being magnesium containing impurities, which promote electrochemical potential differences and/or the formation of precipitations and/or intermetallic phases, in a total amount of no more than 0.0063% by weight of Fe, Si, Mn, Co, Ni, Cu, Zr, Y, Sc or rare earths having the ordinal numbers 21, 57 to 71 and 89 to 103, Be, Cd, In, Sn and/or Pb as well as P, wherein the matrix of the alloy is solid solution hardening due to Al and An and is also particle hardening due to the intermetallic phases formed of Mg and Al.



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