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(54) Title: CORROSION RESISTANT MAGNETIC COMPONENT FOR A FUEL INJECTION VALVE

(57) Abstract: A magnetic component for a magnetically actuated fuel injection device is provided. The magnetic component is formed of a corrosion resistant soft magnetic alloy consisting essentially of, in weight percent, 3% < Co < 20%, 6% < Cr < 15%, 0% ≤ S ≤ 0.5%, 0% ≤ Mo ≤ 3%, 0% ≤ Si ≤ 3.5%, 0% ≤ Al ≤ 4.5%, 0% ≤ Mn ≤ 4.5%, 0% ≤ Me ≤ 6%, where Me is one or more of the elements Sn, Zn, W, Ta, Nb, Zr and Ti, 0% ≤ V ≤ 4.5%, 0% ≤ Ni ≤ 5%, 0% ≤ C < 0.05%, 0% ≤ Cu < 1%, 0% ≤ P < 0.1%, 0% ≤ N < 0.5%, 0% ≤ O < 0.05%, 0% ≤ B < 0.01%, and the balance being essentially iron and the usual impurities.



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