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(54) Title: AUSTENITIC STAINLESS STEEL LOW IN NICKEL CONTAINING STABILIZING ELEMENTS

(57) Abstract: An austenitic stainless steel composition including relatively low nickel and molybdenum levels, and exhibiting corrosion resistance, resistance to elevated temperature deformation, and formability properties comparable to certain alloys including higher nickel and molybdenum levels. Embodiments of the austenitic stainless steel include, in weight %, up to 0.20 C, 2.0-9.0 Mn, up to 2.0 Si, 16.0-23.0 Cr, 1.0-7.0 Ni, up to 3.0 Mo, up to 3.0 Cu, 0.05-0.35 N, up to 4.0 W, $(7.5(\%C)) \leq (Nb + Ti + V + Ta + Zr) \leq 1.5$, up to 0.01 B, up to 1.0 Co, iron and impurities. Additionally, embodiments of the steel may include $0.5 \leq (Mo + W/2) \leq 5.0$ and/or $1.0 \leq (Ni + Co) \leq 8.0$.

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