

Title (en)

STEEL PARTS MADE OF AUSTENITIC OR SEMI-AUSTENITIC STEEL IN A PLANT FOR PRODUCING SULFURIC ACID AND METHOD FOR THE PROTECTION AGAINST CORROSION

Title (de)

AUS AUSTENITISCHEM ODER HALBAUSTENITISCHEM STAHL BESTEHENDE TEILE EINER ANLAGE ZUR HERSTELLUNG VON SCHWEFELSÄURE UND VERFAHREN ZUM KORROSIONSCHUTZ

Title (fr)

PIECES EN ACIER AUSTENITIQUE OU SEMI-AUSTENITIQUE DANS UNE INSTALLATION DE PRODUCTION D'ACIDE SULFURIQUE ET PROCEDE DE PROTECTION CONTRE LA CORROSION

Publication

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Application

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Abstract (en)

[origin: US2004238375A1] This invention relates to a method for the protection against corrosion of steel parts made of austenitic or semi-austenitic steel during the production of sulfuric acid. To improve the corrosion resistance of the steel parts which are in contact with the sulfuric acid, it is proposed to use austenitic or semi-austenitic steel which has a Cr content of 15 wt-% to 36 wt-% and an Ni content of 9 wt-% to 60 wt-% and in which the ratio of the chemical elements (Cr+Si)/(Ni+Mo) lies in the range from 0.9 to 1.9 or in which the ratio of the chemical elements Cr/(Ni+Mo) lies in the range from 0.8 to 1.5, and to additionally provide this steel part with an anodic corrosion protection.

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