

"A surface treatment process for mechanical parts subject
to both wear and corrosion"

ABSTRACT

A surface treatment process for mechanical parts, for conferring on said parts a high resistance to wear and corrosion and a roughness propitious to lubrication, in which process nitriding of said part is followed consecutively by oxidation of said part, characterized in that said nitriding is applied by immersing said part in a molten salt nitriding bath free of sulfur-containing species at a temperature from approximately 500°C to approximately 700°C, and in that said oxidation is carried out in an oxidizing aqueous solution at a temperature less than approximately 200°C.

No drawings.