

Title (en)
PROCESS FOR PLASMA ELECTROLYTIC OXIDATION

Title (de)
VERFAHREN ZUR PLASMAELEKTROLYTISCHEN OXIDATION

Title (fr)
PROCÉDÉ POUR OXYDATION PAR PLASMA ÉLECTROLYTIQUE

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Abstract (en)
[origin: WO2016197175A1] The invention relates to an electrolyte for plasma electrolytic oxidation of workpieces produced from light metal and/or light metal alloys, containing a saline solution, wherein at least one salt or a combination of two or more salts is selected from a group comprising metal salts, in particular borates, phosphates, nitrates, sulphates, aluminates, silicates, manganates, molybdates, tungstates, and/or salts of organic acids, especially methane sulfonates and/or amidosulfonates, and/or metal complexes as well as combinations thereof, wherein inorganic non-metallic particles are suspended in this saline solution. The invention also relates to a method for plasma electrolytic oxidation of workpieces produced from light metal and/or light metal alloys.

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