Title (en)

METHOD OF COMPACTING ANODIZED METALS WITH LITHIUM AND FLUORIDE-CONTAINING SOLUTIONS WITHOUT USING HEAVY METALS

Title (de)

VERFAHREN ZUM SCHWERMETALLFREIEN VERDICHTEN ANODISIERTER METALLE MIT LITHIUM- UND FLUORID-HALTIGEN LÖSUNGEN

Title (fr)

PROCEDE DE COMPACTAGE DE METAUX ANODISES AVEC DES SOLUTIONS CONTENANT DU LITHIUM ET DU FLUORURE, NE FAISANT PAS INTERVENIR DE METAUX LOURDS.

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Application

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Abstract (en)

[origin: DE19524828A1] The invention concerns a method of compacting anodized metals without using heavy metals. The method is characterized in that: a) in a first step, the anodized metal is brought into contact for a period of between 3 and 30 minutes (for an anodizing layer thickness of 20 mu m) with an aqueous solution which has a temperature ranging from 15 to 35 DEG C and a pH ranging from 5.0 to 6.5 and contains between 0.1 and 3 g/l lithium ions and between 0.1 and 5 g/l fluoride ions; and b) in a second step, the anodized metal is brought into contact for a period of between 5 and 30 minutes (for an anodizing layer thickness of 20 mu m) with water or an aqueous solution of substances which prevent the formation of a sealing coating, the solution having a pH ranging from 5.5 to 8.5 and a temperature ranging from 80 to 100 DEG C.

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