

Title (en)

METHOD FOR PRODUCTION AND USE OF A POLISHED NANOSTRUCTURED METAL SURFACE HAVING WATER-REPELLENT AND ICE-REPELLENT CHARACTERISTICS

Title (de)

VERFAHREN ZUR HERSTELLUNG SOWIE VERWENDUNG EINER POLIERTEN NANOSTRUKTURIERTEN METALLISCHEN OBERFLÄCHE MIT WASSER- UND EISABWEISENDEN EIGENSCHAFTEN

Title (fr)

PROCÉDÉ DE FABRICATION ET UTILISATION D'UNE SURFACE MÉTALLIQUE NANOSTRUCTURÉE POLIE À PROPRIÉTÉS RÉPULSIVES CONTRE L'EAU ET LA GLACE

Publication

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Application

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Abstract (en)

[origin: WO2015135521A1] The invention relates to a method for producing a water-repellent and ice-repellent surface on a metal substrate, comprising the steps of a) providing a metal substrate, b) polishing the metal substrate, c) bringing at least a part of the metal substrate surface into contact with an electrolyte solution, d) anodising the metal substrate from step c) in order to produce a nanoporous layer on the substrate surface, and e) applying a hydrophobic coating to the nanoporous layer. Thus the accumulation of ice, in particular on aircraft surfaces which are subject to an air flow, can be reduced in comparison with the prior art.

IPC 8 full level

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Citation (search report)

See references of WO 2015135521A1

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