

Title (en)
METHOD OF MAKING METAL SURFACES WETTABLE

Title (de)
VERFAHREN ZUM BENETZBARMACHEN VON METALLOBERFLÄCHEN

Title (fr)
PROCEDE RENDANT UNE SURFACE METALLIQUE MOUILLABLE

Publication
EP 1915471 A1 20080430 (EN)

Application
EP 06761081 A 20060621

Priority
• CA 2006001016 W 20060621
• US 70312505 P 20050727

Abstract (en)
[origin: US2007023115A1] A method of treating a surface of a metal foil or sheet to make the surface wettable. The method comprises obtaining a metal foil or sheet having an oil-coated surface to be treated, applying a solution of phosphoric acid in a polar, non-aqueous, water-free solvent evenly to the surface at a rate of application in a range of at least 10 mg/ft², the phosphoric acid being contained in the solution at a concentration such that the phosphoric acid contacts the surface in an amount of 0.5 to 2.0 mg/ft²; and removing the solvent by either drying the surface or heating the foil or sheet at an elevated temperature above ambient to evaporate the oil from the surface to be treated with the proviso that the elevated temperature does not fall in the range between 130 to 240° C. The resulting foil has a wettable surface and can be used, for example, for coating with a layer of another material (e.g. polymer or adhesive) and achieve high peel strength.

IPC 8 full level
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CPC (source: EP KR US)
C22C 21/00 (2013.01 - KR); **C23C 22/03** (2013.01 - EP KR US); **C23C 22/77** (2013.01 - KR); **C23C 22/82** (2013.01 - EP KR US)

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