

Title (en)
METHOD FOR COATING METAL SURFACES WITH A PHOSPHATE LAYER AND THEN WITH A POLYMER LUBRICANT LAYER

Title (de)
VERFAHREN ZUR BESCHICHTUNG VON METALLISCHEN OBERFLÄCHEN MIT EINER PHOSPHATSCHICHT UND DANACH MIT EINER POLYMEREN SCHMIERSTOFFSCHICHT

Title (fr)
PROCÉDÉ D'ENDUCTION DE SURFACES MÉTALLIQUES AVEC UNE COUCHE DE PHOSPHATE PUIS AVEC UNE COUCHE DE LUBRIFIANT POLYMÈRE

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Abstract (en)
[origin: WO2009095373A1] The invention relates to a method for preparing metal workpieces for cold forming by first applying a phosphate layer and then applying a lubricant layer which has a major content in organic polymer material. The phosphate layer is formed by an aqueous acidic phosphating solution having a major content in calcium, magnesium or/and manganese and phosphate. The lubricant layer is formed by contacting the phosphated surface with an aqueous lubricant composition which has a content in organic polymer material based on ionomer and optionally also non-ionomer, the organic polymer material used predominantly being monomers, oligomers, co-oligomers, polymers or/and copolymers based on ionomer, acrylic acid/methacrylic acid, epoxide, ethylene, polyamide, propylene, styrene, urethane, the ester(s) or/and salt(s) thereof. The invention also relates to the corresponding lubricant composition, to the lubricant layer produced thereof and to its use.

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