

Title (en)

AQUEOUS LUBRICANT FOR PLASTIC WORKING OF METALLIC MATERIAL AND METHOD OF LUBRICANT FILM PROCESSING

Title (de)

WÄSSRIGER SCHMIERSTOFF ZUR PLASTISCHEN VERARBEITUNG METALLISCHER WERKSTOFFE UND VERFAHREN ZUR HERSTELLUNG EINES SCHMIERMITTELFILMS

Title (fr)

LUBRIFIANT AQUEUX POUR LE TRAVAIL PLASTIQUE D'UN MATERIAU METALLIQUE ET PROCEDE D'ELABORATION D'UN FILM LUBRIFIANT

Publication

EP 1319702 B1 20161109 (EN)

Application

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Priority

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Abstract (en)

[origin: EP1319702A1] An aqueous lubricant used for plastic working of metallic material which comprises (A) a water soluble inorganic salt, (B) lubricative agent selected from molybdenum disulfide and graphite and (C) wax, wherein the components are dissolved or dispersed in water, and wherein a concentration ratio (weight ratio) of (B) / (A) is in the range of 1.0 SIMILAR 5.0 and (C) / (A) is 0.1 SIMILAR 1.0. And a method of lubricative film processing on a metallic material, in that the lubricative film formed by applying the aqueous lubricant is in a dried weight of 0.5 SIMILAR 40g/m<2>. A water soluble inorganic salt (A) is preferably selected from the group consisting of a sulfate, a silicate, a borate, a molybdate and a tungstate. The wax (C) is preferably a natural wax or a synthetic wax which is dispersed in water and has a melting point of 70 SIMILAR 150 DEG C. The aqueous lubricant can be used for imparting excellent lubricity with ease to the surface of a metal having no chemical conversion layer formed thereon. <IMAGE>

IPC 8 full level

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