

Title (en)
PHOSPHATING PROCESS WITH A METALLIFEROUS RE-RINSING STAGE

Title (de)
VERFAHREN ZUR PHOSPHATIERUNG MIT METALLHALTIGER NACHSPÜLUNG

Title (fr)
PROCEDE DE PHOSPHATATION COMPORTANT UNE ETAPE DE RINÇAGE FINAL A BASE DE METAL

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Application
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Abstract (en)
[origin: US6090224A] PCT No. PCT/EP96/01196 Sec. 371 Date Sep. 29, 1997 Sec. 102(e) Date Sep. 29, 1997 PCT Filed Mar. 20, 1996 PCT Pub. No. WO96/30559 PCT Pub. Date Oct. 3, 1996A process for phosphating metal surfaces in which a nitrite- and nickel-free zinc-containing phosphating solution is applied to the metal surfaces which, if desired, are then rinsed and subsequently after-rinsed with an aqueous solution with a pH value of 3 to 7 which contains 0.001 to 10 g/l of one or more of the cations of Li, Cu and Ag.

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US 6090224 A 20000718; AT E189010 T1 20000215; AU 5146496 A 19961016; AU 697424 B2 19981008; BR 9607767 A 19990119; CA 2216925 A1 19961003; CN 1079845 C 20020227; CN 1179183 A 19980415; CZ 287867 B6 20010214; CZ 306197 A3 19980318; DE 19511573 A1 19961002; DE 59604232 D1 20000224; EP 0817872 A1 19980114; EP 0817872 B1 20000119; ES 2143186 T3 20000501; HU P9802380 A2 19990201; HU P9802380 A3 19990329; JP 3883571 B2 20070221; JP H11502569 A 19990302; KR 100362549 B1 20030211; KR 19980702742 A 19980805; MX 9707328 A 19980731; PL 179316 B1 20000831; PL 321960 A1 19980105; PT 817872 E 20000731; SK 128997 A3 19981202; TR 199701061 T1 19980121; US 6395105 B1 20020528; WO 9630559 A1 19961003; ZA 962504 B 19960930

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