

Title (en)  
NO-RINSE PHOSPHATISING PROCESS

Title (de)  
PHOSPHATIERVERFAHREN OHNE NACHSPÜLUNG

Title (fr)  
PROCEDE DE PHOSPHATAGE SANS RIN AGE FINAL

Publication  
**EP 0774016 A1 19970521 (DE)**

Application  
**EP 95932747 A 19950914**

Priority  
• DE 4433946 A 19940923  
• EP 9503619 W 19950914

Abstract (en)  
[origin: US5976272A] PCT No. PCT/EP95/03619 Sec. 371 Date Mar. 24, 1997 Sec. 102(e) Date Mar. 24, 1997 PCT Filed Sep. 14, 1995 PCT Pub. No. WO96/09422 PCT Pub. Date Mar. 28, 1996A process for phosphating metal surfaces by treatment with an acidic zinc- and phosphathe-containing solution which does not require rinsing. The metal substrate is contacted with a phosphating solution containing 2 to 25 g/l of zinc ions, 2 to 25 g/l of manganese ions and 50 to 300 g/l of phosphate ions. The solution has a pH value of 1 to 3.6, a free acid content of 0 to 100 points, a total acid content of 40 to 400 points and a ratio of free acid to total acid of 1:4 to 1:20.

IPC 1-7  
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IPC 8 full level  
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CPC (source: EP KR US)  
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**C23C 22/362** (2013.01 - EP US); **C23C 22/365** (2013.01 - KR); **C23C 22/76** (2013.01 - KR)

Citation (search report)  
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Cited by  
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