

Title (en)
PROCESS FOR PHOSPHATIZING METAL SURFACES

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Application
EP 89100228 A 19890107

Priority
DE 3800835 A 19880114

Abstract (en)
[origin: US4944813A] The present invention relates to a process for phosphating metal surfaces, and more specifically of surfaces of iron, zinc, and aluminum and the alloys thereof as a pretreatment for cold working wherein the surfaces without previous activation are contacted in a temperature range of from 30 DEG C. to 70 DEG C. with an aqueous solution containing (a) from 10 to 40 g/l of Ca²⁺ ions, (b) from 10 to 40 g/l of Zn²⁺ ions, (c) from 10 to 100 g/l of OP43- ions and, as accelerator, (d) from 10 to 100 g/l of NO₃⁻ ions and/or (e) from 0.1 to 2.0 g/l of organic nitro compounds, said solution exhibiting a pH value in the range of from 2.0 to 3.8 and a ratio of free acid to total acid of from 1:4 to 1:100.

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C23C 22/22

IPC 8 full level
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C23C 22/22 (2013.01 - EP US); **C23C 22/367** (2013.01 - EP US)

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EP 0045110 A1 19820203 - METALLGESELLSCHAFT AG [DE], et al

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