

Title (en)

PRODUCTION OF PHOSPHATE-CONTAINING ACTIVATING AGENTS FOR PHOSPHATIZATION WITH THE AID OF MICROWAVES

Title (de)

HERSTELLUNG PHOSPHATHALTIGER AKTIVIERMITTEL FÜR DIE PHOSPHATIERUNG UNTER EINSATZ VON MIKROWELLEN

Title (fr)

FABRICATION D'ACTIVATEURS A BASE DE PHOSPHATES POUR LA PHOSPHATATION ASSISTEE PAR MICRO-ONDES

Publication

EP 0759097 B1 19980819 (DE)

Application

EP 95919995 A 19950502

Priority

- DE 4416619 A 19940511
- EP 9501654 W 19950502

Abstract (en)

[origin: DE4416619A1] A process is disclosed for the production of phosphate-containing activating agents for the activation of surfaces of steel, zinc, aluminium or alloys of these metals, before phosphatization. The proposed process is characterized by the fact that an aqueous solution or slurry of one or more alkali metal phosphates, oligophosphates and/or polyphosphates, together with a second reagent, is irradiated with microwaves, the second reagent being titanium compounds or complexing agents from the phosphonic acid and poly(formyl carboxylic acid) group. The activating agents in question are formulated preferably in the form of an aqueous concentrate with a solids content of between 5 and 30 % by weight.

IPC 1-7

C23C 22/78; **C23C 22/80**; **C23G 1/08**

IPC 8 full level

B01J 19/12 (2006.01); **C23C 22/78** (2006.01); **C23C 22/80** (2006.01); **C23G 1/08** (2006.01)

CPC (source: EP)

C23C 22/78 (2013.01); **C23C 22/80** (2013.01)

Cited by

CN114787419A

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

DE 4416619 A1 19951116; DE 59503273 D1 19980924; EP 0759097 A1 19970226; EP 0759097 B1 19980819; JP H10500175 A 19980106; WO 9531588 A1 19951123

DOCDB simple family (application)

DE 4416619 A 19940511; DE 59503273 T 19950502; EP 9501654 W 19950502; EP 95919995 A 19950502; JP 52931495 A 19950502