

Title (en)

COMPOSITION AND PROCESS FOR TREATING THE SURFACE OF ALUMINIFEROUS METALS

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR OBERFLÄCHENBEHANDLUNG ALUMINIUMHALTIGER METALLE

Title (fr)

COMPOSITION ET PROCEDE POUR TRAITER LA SURFACE DE METAUX ALUMINEUX

Publication

EP 0757725 A4 19970730 (EN)

Application

EP 95915455 A 19950407

Priority

- JP 7721994 A 19940415
- US 9503933 W 19950407

Abstract (en)

[origin: WO9528509A1] A surface of aluminiferous metal is brought into contact at 30 DEG C to 65 DEG C for 5 to 60 seconds with a surface treatment bath with a pH of 2.0 to 6.5 that contains phosphate ion, condensed phosphate ion, and a water soluble polymer in the following weight proportions: 1 - 30 : 0.1 - 10 : 0.2 - 20. This is followed by a water rinse and drying by heating. The water soluble polymer has a chemical structure conforming with formula (I), in which (i) each of X<1> and X<2> represents a hydrogen atom, a C1 to C5 alkyl group, or a C1 to C5 hydroxyalkyl group; (ii) each of Y<1> and Y<2> represents a hydrogen atom or a moiety "Z" that conforms to formula (II) or (III), wherein each of R<1>, R<2>, R<3>, R<4>, and R<5> represents a C1 to C10 alkyl group or a C1 to C10 hydroxyalkyl group; (iii) the average value for the number of Z moieties substituted on each phenyl ring in the polymer molecule is from 0.2 to 1.0; (iv) n is an integer with a value from 2 to 50; and (v) each polymer molecule contains at least one Z moiety.

IPC 1-7

C23C 22/23

IPC 8 full level

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CPC (source: EP KR)

C23C 22/07 (2013.01 - KR); **C23C 22/23** (2013.01 - EP)

Citation (search report)

- [A] GB 2250025 A 19920527 - HENKEL CORP [US]
- [A] WO 9110756 A1 19910725 - HENKEL CORP [US]
- See references of WO 9528509A1

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