

Title (en)

Processes for enamelling metals, in particular steel, and compositions for enamelling.

Title (de)

Emailierungsverfahren auf Metallen, insbesondere auf Stahlblechen und Emailzusammensetzungen.

Title (fr)

Perfectionnements aux procédés d'émaillage sur métaux, notamment sur tôle d'acier, et aux compositions d'émailage.

Publication

**EP 0348291 A1 19891227 (FR)**

Application

**EP 89401726 A 19890619**

Priority

FR 8808385 A 19880622

Abstract (en)

The invention relates to a process for enamelling a metal article, especially steel sheet, consisting in applying by a liquid route at least one mass layer, characterised in that at least one hydrophilic surface-active or emulsifying product is added to an enamelling composition by a liquid route, in that this enamelling composition, to which the surface-active product has been added, is applied directly to the article, without performing a degreasing and/or acidic scouring treatment on the latter, and in that the vitrification, by baking, of the enamel deposited on the article thus treated is then carried out, the fats present on the article and the surface-active agents disappearing during the baking, which avoids enamelling faults after baking; the surface-active product preferably consists of polyoxyethylenated sorbitan monolaurate and, in this case, its content is of the order of 0.5%. The invention also relates to a composition for enamelling metals, characterised in that it comprises at least one hydrophilic surface-active or emulsifying product, in particular polyoxyethylenated sorbitan monolaurate in a concentration of 0.5%.

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CPC (source: EP)

**C23D 5/02** (2013.01)

Citation (search report)

- [A] EP 0064649 A2 19821117 - BAYER AG [DE]
- [A] CHEMICAL ABSTRACTS, vol. 100, no. 16, 16 avril 1984, page 633, résumé no. 130902q, Columbus, Ohio, US; & JP-A-58 47 801 (FURUKAWA ELECTRIC CO. LTD) 25-10-1983

Cited by

FR2680986A1; ES2063696A1; EP0447323A1

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