

Title (en)  
COATING FILM FORMATION METHOD

Title (de)  
HERSTELLUNGSVERFAHREN FÜR BESCHICHTUNGSFILM

Title (fr)  
PROCÉDÉ DE FORMATION DE FILM DE REVÊTEMENT

Publication  
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Application  
**EP 13775683 A 20130411**

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• JP 2013060976 W 20130411

Abstract (en)  
[origin: EP2837432A1] An object of the present invention is to provide a method for forming a coating film, the method capable of producing a coating color having a soft texture, the coating color showing a large lightness change from the highlight (in the vicinity of specularly reflected light) to the shade (in an oblique direction), and having high chroma from the highlight to the shade, the method being applicable to industrial products, such as two-wheeled automobile exteriors and automobile interior parts. The invention relates to a method for forming a coating film, the method comprising forming a metallic base coating film containing an aluminum flake pigment on a substrate, and forming a color clear coating film containing a color pigment and a flatting agent on the metallic base coating film, wherein the color pigment in the color clear coating film is a transparent pigment, and wherein when the transparent pigment is contained in a coating composition as a sole coating material in an amount of 1 part by mass, per 100 parts by mass of the resin solids content, which is a vehicle formation component, and when this coating composition is used to form a coating film having a thickness of 100 µm, this coating film achieves a haze value of 0.1 to 10.0.

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Citation (search report)  
• [X] JP 2003245603 A 20030902 - NIPPON PAINT CO LTD  
• [A] US 5976677 A 19991102 - UMEDA HIRONORI [JP], et al  
• [A] DE 102006048631 A1 20080417 - ENDLENDT SANDY [DE]  
• [A] US 4680204 A 19870714 - DAS SURYYA K [US], et al  
• [A] EP 1810757 A1 20070725 - KANSAI PAINT CO LTD [JP]  
• See references of WO 2013154168A1

Cited by  
CN110802008A; EP3417949A4; EP3421143A4; US11344914B2; US11407210B2; US10899118B2; US10882074B2; US11952499B2; JP2018103082A; EP3919186A4

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