

Title (en)

METHOD OF PREPARING BLUE IRON-HEXACYANOFERRATE-III PIGMENTS

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Application

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Priority

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Abstract (en)

[origin: US4451339A] Blue iron hexacyanoferrate-III pigments (I) are prepared by anodic oxidation of metallic iron in hydrogen cyanide, or a reaction medium containing hydrogen cyanide, at pH<7 and at an anode potential of ≤ 0.76 V (measured against a standard hydrogen electrode) to complex iron-II hexacyanoferrate-II compounds (II), which are then oxidized to (I) in a conventional manner. The oxidation of (II) is advantageously carried out with air or oxygen at pH 0-4 and at from 70 to 95 DEG C., but can also be carried out at pH>8. The process gives readily dispersible pigments (I) which are of high color strength and give brilliant, glossy colorations.

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