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(54) Title (EN): AQUEOUS INK

(54) Title (FR): ENCRE AQUEUSE

(54) Title (JA): 水系インク

(57) Abstract:

(EN): The present invention relates to an aqueous ink which contains water-insoluble crosslinked polymer particles (A) containing at least a pigment, a polymer emulsion (B) and water, and wherein: a water-insoluble crosslinked polymer that constitutes the crosslinked polymer particles (A) is obtained by crosslinking a polymer which has a constituent unit derived from a carboxylic acid monomer having an acid value of 200 mgKOH/g or more and a constituent unit derived from a hydrophobic monomer by means of an epoxy compound; and a polymer that constitutes the polymer emulsion (B) contains a constituent unit derived from a carboxylic acid monomer and a constituent unit derived from a hydrophobic monomer. This aqueous ink exhibits excellent ejection stability and image fastness, while maintaining print density.

(FR): La présente invention concerne une encre aqueuse qui contient des particules de polymère réticulé insoluble dans l'eau (A) contenant au moins un pigment, une émulsion de polymère (B) et de l'eau. Le polymère réticulé insoluble dans l'eau qui constitue les particules de polymère réticulé (A) est obtenu par réticulation d'un polymère qui a un motif constitutif dérivé d'un monomère acide carboxylique ayant un indice d'acide supérieur ou égal à 200 mg KOH/g et un motif constitutif dérivé d'un monomère hydrophobe au moyen d'un composé époxy ; et le polymère qui constitue l'émulsion de polymère (B) contient un motif constitutif dérivé d'un monomère acide carboxylique et un motif constitutif dérivé d'un monomère hydrophobe. Cette encre aqueuse présente une excellente stabilité à l'éjection et une excellente solidité d'image, tout en conservant la densité d'impression.

(JA): 少なくとも顔料を含有する水不溶性架橋ポリマー粒子(A)と、ポリマーエマルジョン(B)と、水とを含有する水系インクであって、架橋ポリマー粒子(A)を構成する水不溶性架橋ポリマーが、酸価が200mgKOH/g以上であるカルボン酸モノマー由来の構成単位と疎水性モノマー由来の構成単位とを有するポリマーをエポキシ化合物で架橋してなるものであり、ポリマーエマルジョン(B)を構成するポリマーが、カルボン酸モノマー由来の構成単位と疎水性モノマー由来の構成単位とを含有する、印字濃度を維持しつつ、吐出安定性、画像堅牢性に優れた水系インクに関する。

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