

Title (en)

Aqueous dispersed solution of substituted succinic anhydride.

Title (de)

Dispergierte wässrige Lösung eines substituierten Bernsteinsäureanhydrids.

Title (fr)

Solution aqueuse dispersée d'un anhydride succinique substitué.

Publication

EP 0228801 A1 19870715 (EN)

Application

EP 86308989 A 19861118

Priority

JP 25829285 A 19851118

Abstract (en)

An aqueous dispersion of a substituted succinic anhydride comprising an aqueous soluble copolymer A1 or an aqueous soluble copolymer A2 or a mixture of these two copolymers, the copolymer A1 having 50 to 98.5 per cent by mol of (meth)acrylamide (a), 1 to 49.5 per cent by mol of N,N-dialkylamidealkyl(meth)acrylamide (b), and 0.5 to 20 per cent by mol of (meth)acrylic acid (c) as monomer ingredients, the aqueous soluble copolymer A2 having 70 per cent by weight or more of a mixture monomer ingredient having 50 to 98.5 per cent by mol of (meth)acrylamide (a), 1 to 49.5 per cent by mol of N,N-dialkylaminoalkyl(meth)acrylamide (b) and 0.5 to 20 per cent by mol of (meth)acrylic acid (c) and other copolymer monomer (d) as monomer ingredients. The dispersion is used as a sizing agent and shows a dilute stability in paper-making steps as well as a sufficient sizing effect in a low content addition range, even in acidic paper making without using a calcium carbonate filler, and in neutral paper making using alum.

IPC 1-7

D21H 3/02

IPC 8 full level

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D21H 17/15 (2013.01); **D21H 17/375** (2013.01); **D21H 17/43** (2013.01); **D21H 17/455** (2013.01)

Citation (search report)

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- [XP] EP 0177260 A1 19860409 - SEIKO KAGAKU KOGYO CO LTD [JP], et al
- [A] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 55, no. 2, August 1984, pages 245,246, abstract no. 2297, Appleton, Wisconsin, US; & JP-A-58 091 897 (KANZAKI PAPER MFG. CO. LTD; ARAKAWA CHEMICAL INDUSTRY LTD) 31-05-1983
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- [A] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 54, no. 3, September 1983, page 350, abstract no. 3226, Appleton, Wisconsin, US; & JP-A-57 143 600 (ARAKAWA CHEMICAL INDUSTRY LTD) 04-09-1982

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