

Title (en)

METHOD FOR THE PRODUCTION OF HYPERBRANCHED WATER-SOLUBLE POLYESTERS

Title (de)

VERFAHREN ZUR HERSTELLUNG HYPERVERZWEIGTER, WASSERLÖSLICHER POLYESTER

Title (fr)

PROCEDE PE PREPARATION DE POLYESTERS HYPER-RAMIFIES SOLUBLES DANS L'EAU

Publication

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Application

EP 03790809 A 20030724

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Abstract (en)

[origin: WO2004020503A1] The invention relates to a method for the production of essentially non-cross-linked, hyperbranched polyesters which are soluble or dispersible in water, from dicarboxylic acids and polyether polyols which have at least three 3 OH groups. The invention further relates to water-soluble hyperbranched polyesters produced by such a method and the use thereof for the production of printing inks, adhesives, coatings, paints and finishes.

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C08G 83/00; **C08G 63/668**

IPC 8 full level

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Citation (search report)

See references of WO 2004020503A1

Citation (examination)

- EP 0383118 A2 19900822 - BAYER AG [DE]
- PAUL J. FLORY: "Molecular Size Distribution in Three Dimensional Polymers. I. Gelation 1", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 63, no. 11, 1 November 1941 (1941-11-01), pages 3083 - 3090, XP055091811, ISSN: 0002-7863, DOI: 10.1021/ja01856a061

Cited by

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