

Title (en)

PROCESS FOR THE PRODUCTION OF HYDROGELS IN THE FORM OF SPHERICALLY SHAPED BEADS WITH LARGER DIAMETERS

Publication

EP 0000507 B1 19820929 (DE)

Application

EP 78100375 A 19780712

Priority

US 81740477 A 19770720

Abstract (en)

[origin: EP0000507A1] 1. A process for producing essentially uniform spherical beads of up to 5 mm diameter of a cross-linked, waterinsoluble hydrogel by suspension polymerisation of (A) 95-30% by weight, relative to the hydrogel, of at least one watersoluble, monoolefinic monomer, which can be replaced to the extent of up to 70% by weight, relative to the total amount of the monomer, by at least one water-insoluble monomeric compound, the hydrogel containing at most 60% by weight of the water-insoluble monomeric compound, and at least 5% by weight of the total monomer consisting of a hydroxyl-substituted, hydrophilic vinyl monomer, with (B) 5 to 70% by weight, relative to the hydrogel, of a terminal diolefinic, crosslinking compound having a molecular weight of 400-8000, in the presence of a polymerisation catalyst in a concentrated, aqueous inorganic salt solution, and of a dispersing agent, and also by treatment of the hydrogel with an acid, characterised in that there is used, as dispersing agent, 0.01-5% by weight, based on the hydrogel, of at least one water-insoluble, gelatinous, water-binding, inorganic metal hydroxide or metal hydroxide salt in the absence of excess alkali or free hydroxyl ions.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Cited by

FR2759702A1; EP0317138A3; AU2004268013B2; EP1664168A4; US6177507B1; US8912247B2; WO9836006A1; US9255178B2; US10717813B2; WO03077964A1

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