

Summaries of UK Patent Applications

Destructurized Starch and Process for Making Same. GB 2205 323A. Filed 9 March 1987, published 7 December 1988. Applicant — Warner-Lambert Company, New Jersey, USA.

A destructurized starch material is produced by heating a native starch having a water content in the range of about 5–25% by weight to an elevated temperature in the presence of a chain scission catalyst in a closed volume until the weight average molecular weight is reduced by a factor of 2 to 5000.

The product may be used, e.g. in admixture with fillers, plasticizers, or agents to produce flow properties in injection moulding, blow moulding or extrusion to produce pharmaceutical capsules.

Cross-Linked Hyaluronic Acid. GB 2205 848A. Filed 13 May 1985, published 21 December 1988. Applicant — Biomatrix Inc.

A method for preparing a cross-linked gel of hyaluronic acid is described. Sodium hyaluronate in a dilute aqueous alkaline solution at a pH of not less than about 9 is subjected to a cross-linking reaction with divinyl sulfone in the presence of a salt selected from an alkali metal chloride, sulfate, phosphate or acetate.

Process for the Preparation of Polymers by Suspension Polymerization of a Vinyl Monomer in the Presence of a Hydrophobically Modified Water-Soluble, Nonionic Cellulose Ether Polymer in Combination with an Electrolyte and Polymers Prepared by the Same. GB 2206 122A. Filed 16 June 1988, published 29 December 1988. Applicant — Aqualon Company, Delaware, USA.

The title is self-explanatory. The cellulose ether polymer may be hydrophobically modified with a C_6 – C_{25} alkyl radical. The electrolyte is

preferably sodium sulphate. The monomer is, e.g. styrene, a styrene derivative, vinyl or vinylidene halide, alkyl methacrylate, vinyl acetate or acrylonitrile.

Palatinose Condensation Product and a Process for the Preparation Thereof and a Method for Utilizing the Product. GB 2206 582A. Filed 3 June 1988, published 11 January 1989. Applicant — Mitsui Sugar Co. Ltd, Tokyo, Japan.

A palatinose condensation product having 2–8 palatinose units is disclosed together with processes for its preparation and uses as a food-stuff, and a medicament for encouraging the growth of the beneficial microorganism *Bifidobacterium* in the intestines. The medicament may also contain palatinose.

Enzymes Immobilized on Apatite. GB 2206 585A. Filed 1 July 1987, published 11 January 1989. Applicant — Dental Kagaku Kabushiki Kaisha, Tokyo, Japan.

Levanase, mutanase and dextranase may be immobilized on hydroxyapatite or fluorapatite by adding dropwise a bifunctional aldehyde, preferably glutaraldehyde, to a suspension of the apatite in an aqueous solution containing the enzyme and a protein, e.g. lysozyme, cytochrome C, albumin or casein which has a high affinity for adsorption on the apatite.

Adhesive Compositions and Self-Adhesive Sheet Materials. GB 2206 592A. Filed 1 July 1988, published 11 January 1989. Applicant — Harlow Chemical Company Ltd, Harlow, Essex.

Self-adhesive sheet materials may be made by applying to the surface of a sheet an adhesive composition comprising the polymer of an acrylic ester of a saturated alcohol with 2–12 carbon atoms, a surfactant and dextrin. When the proportion of dextrin is in the range 4–30% by weight, the adhesive provides pressure-sensitive, releasable articles, e.g. labels or tapes.

Novel Starch and Products Produced Therefrom. GB 2206 595A. Filed 1 July 1988, published 11 January 1989. Applicant — American Maize-Products Company, Connecticut, USA.

A substantially pure starch extracted from a starch bearing plant having a dull sugary-2 genotype is disclosed. Maize is the preferred plant. The starch exhibits a high amylose content with a gelatinization temperature at least 10°C below that of conventional high amylose starch with comparable amylose content. The starch also exhibits thin-thick canning starch attributes. A sol and foodstuff containing the starch are also disclosed.

Novel Starch and Products Produced Therefrom. GB 2206 596A. Filed 1 July 1988, published 11 January 1989. Applicant — American Maize Products Company, Connecticut, USA.

A substantially pure starch extracted from a starch bearing plant having an amylose extender dull shrunken-1 genotype is disclosed. Maize is the preferred plant. A sol and foodstuff containing the starch are disclosed.