

Title (en)

PROCESS AND APPARATUS FOR THE PREPARATION OF ANHYDROUS CRYSTALLINE DEXTROSE

Publication

**EP 0202999 B1 19890426 (FR)**

Application

**EP 86401015 A 19860513**

Priority

FR 8507429 A 19850515

Abstract (en)

1. Process for the continuous preparation of anhydrous crystalline dextrose characterized by the fact that a mass constituted by glucose syrup and anhydrous dextrose crystals is brought to pass through, from top to bottom and with malaxation, a crystallization zone of axis preferably substantially vertical in which said mass is subjected to a temperature gradient decreasing globally from 0.2 to 2 degrees C/hour from top to bottom possibly modulated, in which process the crystallization zone is supplied in the vicinity of its upper end, - on the one hand, with glucose syrup having a richness in glucose higher than 92 % by weight, a proportion of dry matter higher than 80 % and a temperature above 60 degrees C and, - on the other hand, with mass subject to crystallization which is taken up and recycled from an intermediate level of the crystallization zone, distant from the ends of the latter by at least 1/4 of the total length, the recycled amount of mass subjected to crystallization representing by volume from 40 to 110 % of the amount of glucose syrup introduced into the zone, at the level of the lower end of which there is continuously collected a crystalline mass rich in anhydrous dextrose crystals which are recovered.

IPC 1-7

**C13K 1/10**

IPC 8 full level

**C07H 1/00** (2006.01); **C07H 3/02** (2006.01); **C13K 1/10** (2006.01)

CPC (source: EP US)

**C13K 1/10** (2013.01 - EP US)

Citation (examination)

STARCH, Chemistry and Technology, Volume II, pages 553-568 (1967)

Cited by

EP1652938A1; FR2877186A1; US7731991B2

Designated contracting state (EPC)

AT DE FR GB IT

DOCDB simple family (publication)

**EP 0202999 A1 19861126**; **EP 0202999 B1 19890426**; AT E42572 T1 19890515; DE 3663035 D1 19890601; FI 84081 B 19910628; FI 84081 C 19911010; FI 862024 A0 19860514; FI 862024 A 19861116; FR 2582015 A1 19861121; FR 2582015 B1 19870918; JP S61280300 A 19861210; US 4931101 A 19900605; US 5076853 A 19911231

DOCDB simple family (application)

**EP 86401015 A 19860513**; AT 86401015 T 19860513; DE 3663035 T 19860513; FI 862024 A 19860514; FR 8507429 A 19850515; JP 10972686 A 19860515; US 26204888 A 19881024; US 53140990 A 19900604