Title (en)

PROCESS FOR THE PRODUCTION OF MANNITOL AND SORBITOL.

Title (de)

HERSTELLUNGSVERFAHREN FÜR MANNITOL UND SORBITOL.

Title (fr)

PROCEDE DE PRODUCTION DU MANNITOL ET DU SORBITOL.

Publication

EP 0116634 A4 19850424 (EN)

Application

EP 83902934 A 19830816

Priority

- US 40999082 A 19820820
- US 51799683 A 19830801

Abstract (en)

[origin: WO8400778A1] A method for the production of a mixture of mannitol and sorbitol having a mannitol to sorbitol ratio of at least 1.5 to 1.0. Glucose is enzymatically oxidized by a pyranose-2-oxidase enzyme to produce a solution of glucosone which is reduced by catalytic hydrogenation using a nickel catalyst in the presence of hydrogen to yield a mannitol-enriched mannitol-sorbitol mixture suitable for use in foods, pharmaceuticals, cosmetics and textiles.

IPC 1-7

C12P 7/26

IPC 8 full level

C12P 7/18 (2006.01); **B01J 25/02** (2006.01); **C07C 27/00** (2006.01); **C07C 29/132** (2006.01); **C07C 29/136** (2006.01); **C07C 29/141** (2006.01); **C07C 29/145** (2006.01); **C07C 31/26** (2006.01); **C07C 67/00** (2006.01); **C12P 19/02** (2006.01)

CPC (source: EP)

C07C 29/141 (2013.01); **C07C 29/145** (2013.01); **C07C 31/26** (2013.01); **C12P 7/18** (2013.01); **C12P 19/02** (2013.01); C07B 2200/07 (2013.01)

Citation (search report)

- [Y] WO 8103666 A1 19811224 - STANDARD BRANDS INC [US]
- [Y] CH 468326 A 19690215 - HEFTI AG [CH]
- [XP] CARBOHYDRATE RESEARCH, vol. 113, 1983, pages 159-162, Elsevier Scientific Publishing Co., Amsterdam, NL; J. GEIGERT et al.: "Convenient, laboratory procedure for reducing D-glucosone to D-fructose"

Designated contracting state (EPC)

BE CH DE FR GB LI NL SE

DOCDB simple family (publication)

WO 8400778 A1 19840301; CA 1220748 A 19870421; DK 115284 A 19840301; DK 115284 D0 19840228; EP 0116634 A1 19840829; EP 0116634 A4 19850424; FI 841584 A0 19840419; FI 841584 A 19840419; JP S59501414 A 19840809

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