

Title (en)

PROCESS AND APPARATUS FOR CHEMICAL CONVERSION OF CELLULOSE WASTE TO GLUCOSE

Publication

EP 0037912 B1 19850821 (EN)

Application

EP 81101951 A 19810316

Priority

- US 13133980 A 19800318
- US 13134080 A 19800318

Abstract (en)

[origin: EP0037912A2] A process and apparatus for the conversion of waste cellulose to glucose wherein waste cellulose is acid hydrolyzed includes continuously feeding waste cellulose into a inlet port with a twin screw extruder, continuously reacting the cellulose with water in the presence of an acid catalyst at elevated temperature and pressure in a reaction zone disposed in the extruder between the inlet port and an outlet port and at least quasi-continuously discharging the reacted cellulose from the extruder while maintaining the elevated temperature and pressure in the reaction zone by forming a dynamic seal zone at the upstream end of the reaction zone and valving the discharge downstream of the outlet port.

IPC 1-7

C13K 1/02

IPC 8 full level

C13K 1/02 (2006.01)

CPC (source: EP)

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Cited by

EA023989B1; EP3722303A4; EP2172568A1; EP0092478A1; US9809867B2; US11692000B2; US9963555B2; WO2012097781A1; WO9424316A1; US8123864B2; US9284383B2; US10155966B2; US10844413B2; US10053745B2; US10858712B2; US10793646B2; US11821047B2

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