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54 **Process and apparatus for chemical conversion of materials and particularly the conversion of cellulose waste to glucose.**

57 A process and apparatus for the conversion of waste cellulose to glucose wherein waste cellulose is acid hydrolyzed includes continuously feeding waste cellulose into an 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 while continuously conveying same to the 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.

EP 0 037 912 A3



DOCUMENTS CONSIDERED TO BE RELEVANT		CLASSIFICATION OF THE APPLICATION (Int. Cl. 2)	
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<p>GB - A - 2 000 822 (CANADIAN PATENTS AND DEVELOPMENT LIMITED)</p> <p>* claims *</p> <p style="text-align: center;">---</p>	1	C 13 K 1/02
F	<p>MECHANICAL ENGINEERING, vol. 105, no. 5, May 1980, Edited by: "American Society of Mechanical Engineers", NEW YORK (US)</p> <p>* page 52 *</p> <p style="text-align: center;">-----</p>	1-23	<p>TECHNICAL FIELDS SEARCHED (Int.Cl. 2)</p> <p>C 13 K 1/02</p>
			<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons</p>
<p><input checked="" type="checkbox"/> The present search report has been drawn up for all claims</p>			<p>&: member of the same patent family, corresponding document</p>
Place of search		Date of completion of the search	Examiner
The Hague		11.01.1982	MALHERBE