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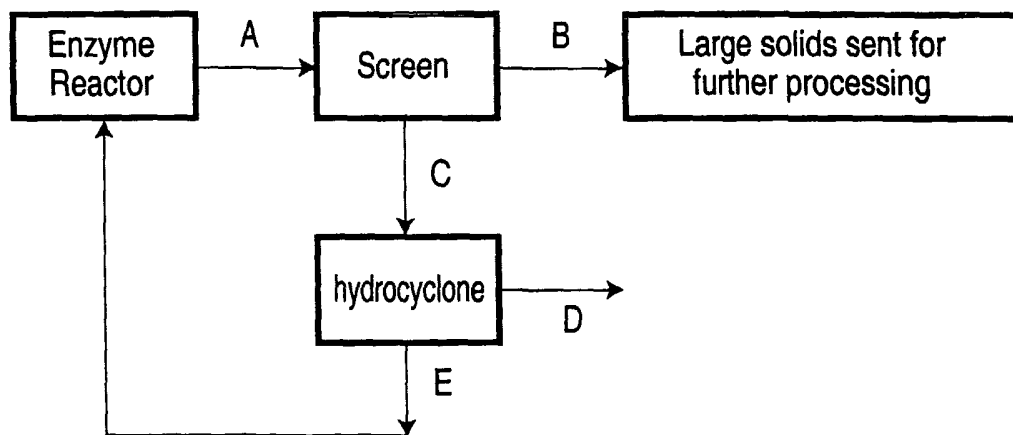
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(54) Title: RECOVERY METHOD FOR IMMOBILIZED BIOCATALYSTS



(57) Abstract: Processes for the production of a product by the enzymatic treatment of a soluble of particulate substrate with a particulate, immobilized enzyme, by treating a process liquor containing the substrate in a bioreactor to produce a slurry of effluent immobilized enzyme and the product in an effluent liquor. The slurry is subject to a non-immobilized enzyme damaging shear inducing effective separation process to provide effluent immobilized enzyme, and effluent liquor containing the product; and reusing the effluent immobilized enzyme in the enzymatic treatment. The process provides for the reclamation and reuse of the immobilized enzyme even when a further particulate solid is present in the effluent/product stream.

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INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C12M1/40 C12P1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12M C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	page 18 - page 19	1-12
Y	----- WO 92 01779 A (PIRTFERM LTD) 6 February 1992 (1992-02-06) page 3, last paragraph - page 4, line 6 page 4, line 26 - page 5, line 2	1-12
P, Y	----- WO 02 055723 A (CHEN XI ; UNIV WAYNE STATE (US); WANG PENG GEORGE (US)) 18 July 2002 (2002-07-18) page 41 - page 42 examples	1-12
A	----- WO 98 30710 A (NGUYEN QUANG A) 16 July 1998 (1998-07-16) the whole document	1-12
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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