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(54) Title: METHOD AND SYSTEMS FOR ISOLATION AND/OR SEPARATION OF PRODUCTS FROM PRODUCTION PROCESSES

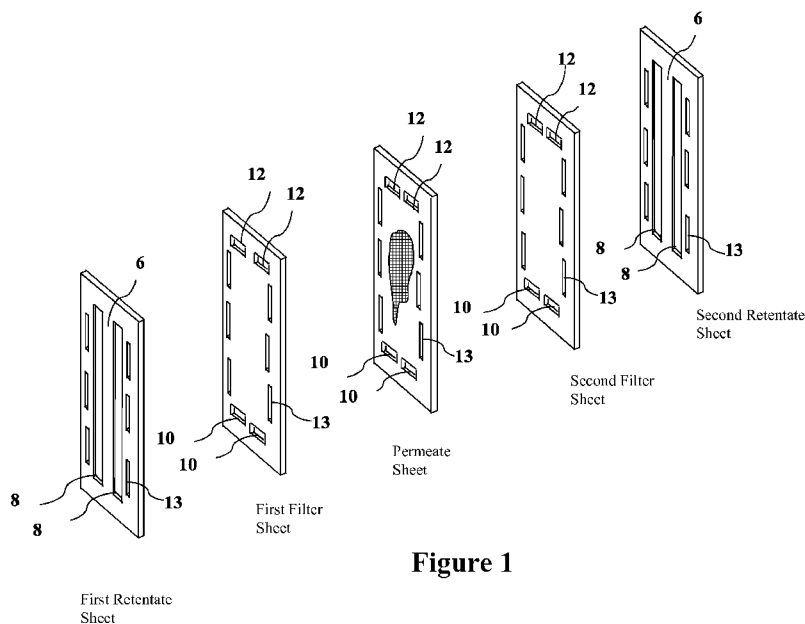


Figure 1

(57) Abstract: The present invention relates to separation of desired target products from biological, plant, and waste-type material, wherein the desired target products include renewable fuels such as ethanol, biobutanol, and biodiesel, wherein the separation is conducted with a cross-flow filtration system having the ability to separate desired products from both non-viscous and viscous medium.

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A. CLASSIFICATION OF SUBJECT MATTER***B01D 63/08(2006.01)i, B01D 61/14(2006.01)i, B01D 35/00(2006.01)i, C12P 7/06(2006.01)i***

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)

B01D 63/08; B01D 63/00; B01D 13/00; B01D 25/12; A23K 1/00; C10L 1/18

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords:biomass,(ethanol,alcohol),(yeast,enzyme,fermentation),filtration cassette

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003-0232109 A1 (LARRY J. DAWLEY et al.) 18 December 2003 See abstract; paragraphs [0014],[0018],[0024]-[0025],[0028]-[0029],[0032]-[0033],[0035]	1-15
Y	US 05593580 A (KOPF, HENRY B.) 14 January 1997 See abstract; column 7, lines 10-19, lines 47-51, column 15, lines 47-58, column 17, line 56 - column 18, line 3; figure 2	1-15
A	US 2008-0229653 A1 (IVERSEN STEEN BRUMMERSTEDT et al.) 25 September 2008 See abstract; paragraphs [0204]-[0208],[0212],[0223]-[0224]; figure 3	1-15
A	US 2005-0269255 A1 (ATTILA HERCZEG) 08 December 2005 See abstract; paragraphs [0005],[0065]-[0069]; figures 1,30	1-15
A	US 05049268 A (KOPF, HENRY B.) 17 September 1991 See abstract; column 13, lines 18-26, column 13, line 61 - column 14, line 9, column 23, lines 24-42, lines 61-68; figure 30	1-15

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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