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(54) **Title:** WASTE PROCESSING PROCESS USING ACID

(57) **Abstract:** Waste processing system, for performing a waste processing process, the system including a shredder, a grinder and a steam explosion device such as a cooking extruder. The waste processing system is used to process raw waste, such as consumer waste, into an end product such as pellets. The waste processing includes an acid treatment step to sanitize, purify and/or increase a cellulose content of the waste. The acid is preferably a weak acid and/or an organic acid.



# INTERNATIONAL SEARCH REPORT

International application No <b>PCT/US2008/072821</b>
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**A. CLASSIFICATION OF SUBJECT MATTER**

INV.    B09B3/00                    B29B17/00                    C10L5/46                    C10B53/07

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)  
**B09B   B29B   CIOL   CIOB**

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**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<b>X</b>	WO 92/07049 A (BARRETT RAYMOND THOMAS [GB]; FORDER DAVID EDWARD [GB]) 30 April 1992 (1992-04-30) page 1, line 13 - page 3, line 20; figure 1 <p style="text-align: center;">-----</p>	1-14
<b>X</b>	US 4 008 053 A (BRENNEMAN RICHARD S ET AL) 15 February 1977 (1977-02-15) column 1, line 66 - column 2, line 1 column 2, line 41 - line 46 column 3, line 16 - line 28 column 5, line 38 - line 40 column 6, line 37 - line 64 figure 1 <p style="text-align: center;">-----</p> <p style="text-align: center;">-/--</p>	1-7

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See patent family annex.

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 02/16500 A (GEORGE RICHARD [US]; SAIDE MILDRED J [US])	8-14
Y	28 February 2002 (2002-02-28) page 2, line 12 - line 19 page 4, line 31 - page 5, line 4 page 6, line 10 - line 13 page 7, line 21 - line 31 page 11, line 5 - line 21 -----	1-7
X	WO 01/32715 A (WASTE ENERGY INTEGRATED SYTEMS [US]; LOMBARD CHARLES K [US]) 10 May 2001 (2001-05-10) page 11, line 11 - page 12, line 13 figures 1,2 -----	15-20
Y	EP 0 591 703 A (BAYER AG [DE]) 13 April 1994 (1994-04-13) abstract; figure 1 -----	1-7
A	EP 0 369 351 A (FOURNE MASCHINENBAU GMBH [DE]) 23 May 1990 (1990-05-23) the whole document -----	1-7

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No <b>PCT/US2008/072821</b>
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