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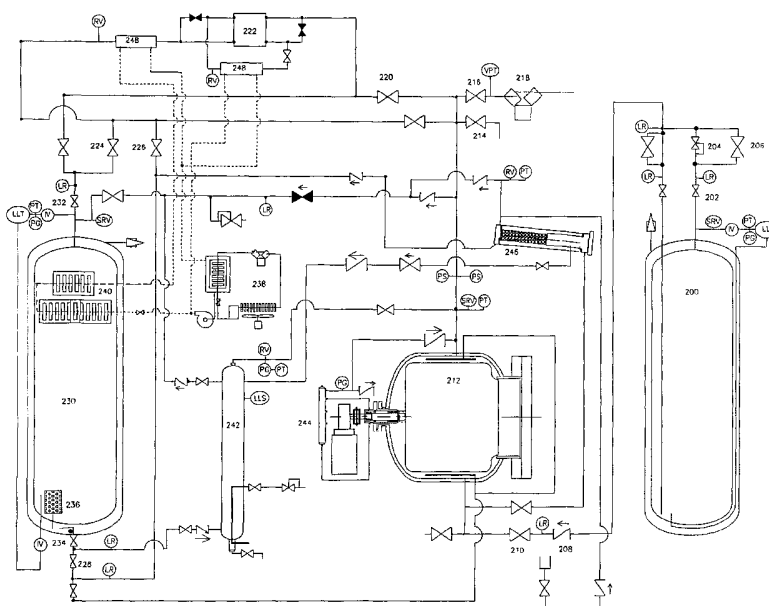
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(54) Title: SYSTEM FOR USE LAND FILLS AND RECYCLABLE MATERIALS



(57) Abstract: Gases are vented from a waste site such as a landfill, and the gases are separated into at least three streams comprising a hydrocarbon stream, a carbon dioxide stream, and residue stream. At least a portion of the carbon dioxide stream and hydrocarbon stream are liquefied or converted to a supercritical liquid. At least some of the carbon dioxide gas stream (as a liquid or supercritical fluid) is used in a cleaning step, preferably a polymer cleaning step, and more preferably a polymer cleaning step in a polymer recycling process, and most preferably in a polymer cleaning step in a polymer recycling system where the cleaning is performed on-site at the waste site.



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US CL : 62/620, 928, 929; 134/30, 12, 31; 510/400

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)

U.S. : 62/620, 928, 929; 134/30, 12, 31; 510/400

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
None

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,642,630 A (ABDELMALEK et al) 01 July 1997, see entire document.	1,2 ----- 3-25,39,38
X --- Y	US 4,704,146 A (MARKBREITER et al) 03 November 1987 (03.11.1987), see entire document.	1,2 ----- 3-25,38,39
X --- Y	US 5,681,360 A (SIWAJEK et al) 28 October 1997 (28.10.1997), see entire document.	1,2 ----- 3-25,38,39
X --- Y	US 5,842,357 A (SIWAJEK et al) 01 December 1998 (01.12.1998), see entire document.	1,2 ----- 3-25,38,39



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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.
X ---	US 5,711,820 A (SMITH et al) 27 January 1998 (27.01.1998), see entire document.	26-29
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A	US 5,073,203 A (AL-GHATTA) 17 December 1991 (17.12.1991), see abstract.	3-39