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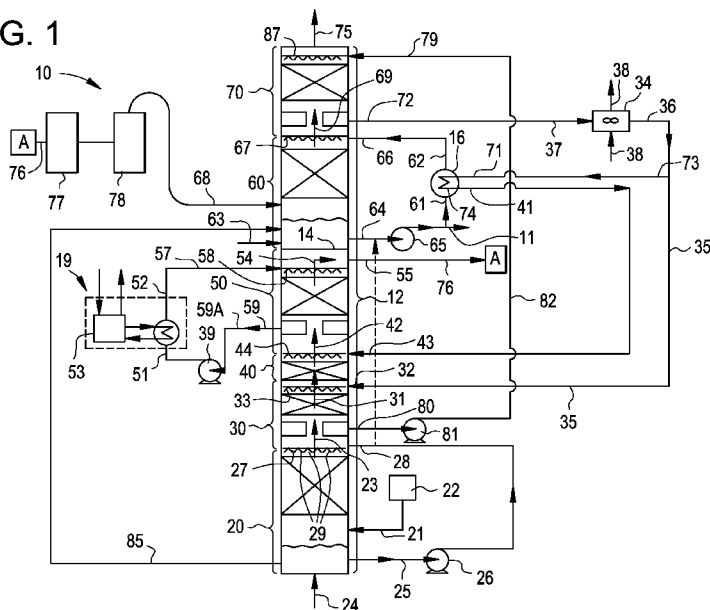
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(54) Title: GAS TREATMENT SYSTEM WITH A HEAT EXCHANGER FOR REDUCTION OF CHILLER ENERGY CONSUMPTION

FIG. 1



(57) Abstract: A gas treatment system including a heat exchanger having a first side and a second side separated from one another. The first side defines a first inlet and a first outlet and the second side defines a second inlet and a second outlet. A direct contact cooler is in fluid communication with the first outlet, a direct contact heater is in fluid communication with the first inlet and/or a gas polisher is in fluid communication with the first inlet and the first outlet. The gas treatment system includes an ammonia polishing system in fluid communication with the second inlet and/or the second outlet.

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According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
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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 practicable, search terms used) EPO-Internal, WPI Data				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 2010/039612 A1 (ALSTOM TECHNOLOGY LTD [CH]; GAL ELI [US]) 8 April 2010 (2010-04-08) paragraph [0014] - paragraph [0049]; figures 1-3 -----	1-20		
X Y	US 2011/041685 A1 (TANAKA HIROSHI [JP] ET AL) 24 February 2011 (2011-02-24) abstract; figures 1-12 -----	1,6,11, 12,15 2-5, 7-10,13, 14,16-20		
Y	US 2011/061533 A1 (BLACK SEAN E [US] ET AL) 17 March 2011 (2011-03-17) the whole document -----	1-20		
Y	EP 0 170 100 A2 (LINDE AG [DE]) 5 February 1986 (1986-02-05) the whole document -----	1-20		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.				
* Special categories of cited documents : <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 2px;"> "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; vertical-align: top; padding: 2px;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "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 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "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 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "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 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
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