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- as to the applicant's entitlement to claim the priority of
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[Continued on next page]

(54) Title: IN-LINE MILLING SYSTEM

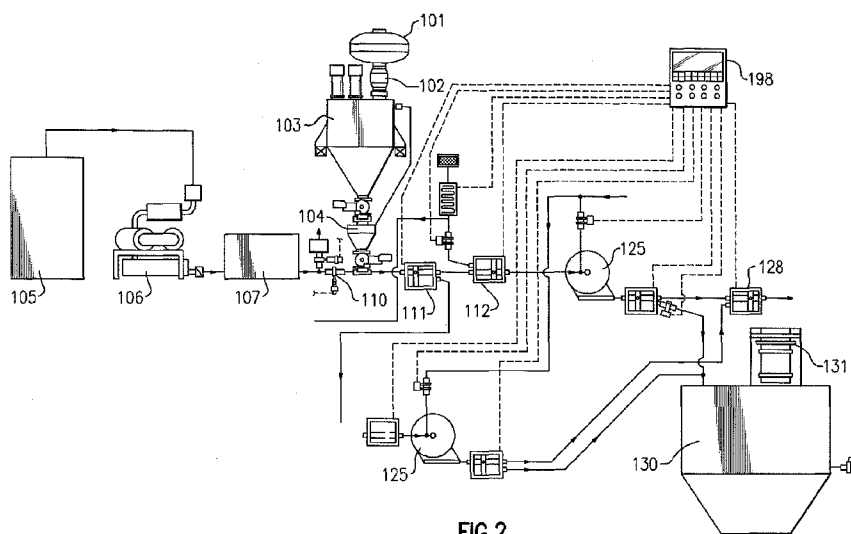


FIG. 2

(57) Abstract: The present invention provides an in-line system for milling sorbent material to be used in a pneumatic conveying system. The system provides for optimal particle size in a duct injection system, regardless of the original sorbent particle size, and is designed to prevent clogging of the milled material through the system. Methods of operation for milling, as well as cleaning the mills while providing various sorbent material by-pass configurations to minimize system down-time while enhancing material throughput and that support the unique aspects of the system, are also described in detail below.



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A. CLASSIFICATION OF SUBJECT MATTER***B01D 53/02(2006.01)i, B01D 39/00(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)

IPC B01D 53/34, B01D 53/30

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)

eKOMPASS(KIPO internal), keyword: sorbent, mill, duct

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,615,750 B2 (DURANT et al.) 09 SEP. 2003 See abstract, figure 2 and 4, column 4 line 25-64, column 5 line 14-27, column 6 line 5-34 column 7 line 61-column 8 line 30 and column 9 line 23-47	1, 2, 9-12, 15, 17, 19
A	See the whole document	3-8, 13, 14, 16, 18, 20
Y	US 4,026,479 A (BRADBURN et al.) 31 MAY 1977 See abstract, figure column 4 line 64 - column 6 line 14	1, 2, 9-12, 15, 17, 19
A	See the whole document	3-8, 13, 14, 16, 18, 20
A	US 4,691,869 A (ONUMA et al.) 08 SEP. 1987 See the whole document	1-20

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"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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