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[Continued on next page]

(54) Title: PROCESS AND APPARATUS FOR SEPARATING A GASEOUS PRODUCT FROM A FEED STREAM COMPRISING CONTAMINANTS

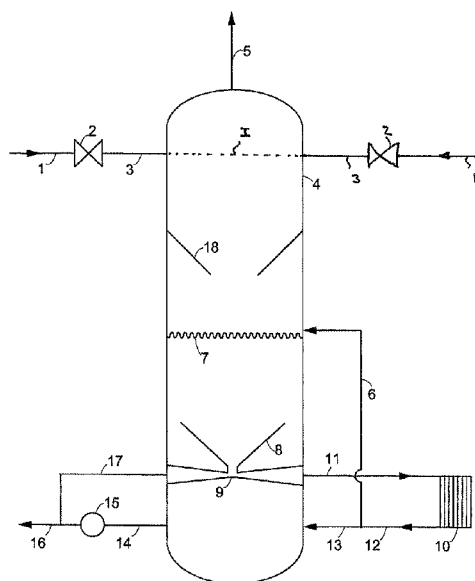


Fig. 1

(57) Abstract: The invention provides a process for separating at least part of a gaseous product from a feed stream which comprises contaminants, the process comprising : 1) providing (1) the feed stream; 2) cooling the feed stream to a temperature at which a slurry stream is formed which comprises solid contaminant, liquid phase contaminant and the gaseous product; 3) introducing the slurry stream as obtained in step 2) via a plurality of tangentially directed inlet means (3), with a small inlet angle, into an upper part of a separation device (4), thereby creating a swirl of the slurry stream which allows at least part of the gaseous product to flow upwardly and solid contaminant and liquid phase contaminant to flow downwardly; 4) removing (5) at least part of the gaseous product from the upper part of the device; and 5) removing (6) a stream comprising liquid phase contaminant from a lower part of the device. The invention further relates to a cryogenic separation device for carrying out the process according to the present invention.

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(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. F25J3/06 B04C5/04 C10L3/10 B01D53/00 B01D53/24
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 F25J B04C C10L B01D

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

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Y	page 18, line 23 - page 20, line 2 page 21, line 27 - line 29 figure 3	1-13,15
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Göritz, Dirk
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International application No
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