

Title (en)

METHOD FOR AUTOMATICALLY DETECTING STABILITY LIMIT OPERATION OF A BULK PRODUCT PNEUMATIC CONVEYOR INSTALLATION OPERATING IN DENSE PHASE

Title (de)

VERFAHREN ZUM AUTOMATISCHEN ERFASSEN DES BEGRENZTEN STABILITÄTSBETRIEBS EINER IN DICHTER PHASE ARBEITENDEN PNEUMATISCHEN FÖRDERANLAGE FÜR SCHÜTTGUT

Title (fr)

PROCEDE DE DETECTION AUTOMATIQUE D'UN FONCTIONNEMENT EN LIMITE DE STABILITE D'UNE INSTALLATION DE TRANSPORT PNEUMATIQUE D'UN PRODUIT EN VRAC EN PHASE DENSE

Publication

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Application

EP 97925135 A 19970527

Priority

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Abstract (en)

[origin: WO9745351A1] The method enables the automatic detection of stability limit operation of a bulk product pneumatic conveyor installation operating in dense phase, in which the conveyor gas and the bulk product are separately introduced into a lock (3) which communicates at its outlet with a duct (4) for bulk product pneumatic transport. It consists in measuring the pressure (Pe), called lock pressure, which is exerted by the conveyor gas in the proximity of the zone (3a) where the bulk product is introduced into the conveying duct (4), and in detecting an instability of the measured lock pressure (Pe), over a predetermined duration (t), by means of a preset stability criterion. Specifically, the stability criterion consists of producing at least one fuzzy cut-off of the measured pressure (Pe) values, based on a predefined membership function, sampling period, and interval, and computing a stability coefficient based on this fuzzy cut-off.

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