

Title (en)

Method and device for dedusting and/or classifying granular or fibrous material in an air stream.

Title (de)

Verfahren und Vorrichtung zum Entstauben und/oder Klassieren von körnigen oder faserigen Stoffen in einem Luftstrom.

Title (fr)

Procédé et dispositif pour le dépoussiérage et/ou le tri de matières granuleuses ou fibreuses dans un courant d'air.

Publication

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Application

EP 91121298 A 19911212

Priority

DE 4040561 A 19901219

Abstract (en)

[origin: EP0491278A2] The invention relates to a method and a device for dedusting and/or classifying granular and/or fibrous material in an airstream. For the purpose of exactly determining the sifting limit it is proposed that the material for sifting be introduced into an upper opening of a gravity chute (3) which has an open chute base (4). In addition to the material (1) for sifting, air is drawn in through the upper (entry) opening (2) of the gravity chute (3) and taken up in the tangential area of a drum-shaped airstream (air eddy stream 17, 21, 21', 21'', 21''') rotating in eddies. The material for sifting and air are exposed to the interplay of forces of the centrifugal and friction force of the airstream which is also carried along, in which case as a result of the centrifugal force of the air eddy stream the coarse-grade material is separated off and discharged through the open chute base (14). Above the rotating air eddy stream (17, 21, 21', 21'', 21'''), a portion of the airstream is branched off and guided out of the gravity chute (3) together with the fine-grade material carried in it. <IMAGE>

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