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*The Director*

*of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this United States*

*Patent*

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*Andres Ibanez*

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



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(12) **United States Patent**  
**Ivanovich Orsyk**

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(54) **METHOD FOR SEPARATING A GRANULAR MIXTURE IN A FLOWING MEDIUM AND DEVICE FOR CARRYING OUT SAID METHOD**

(58) **Field of Classification Search**  
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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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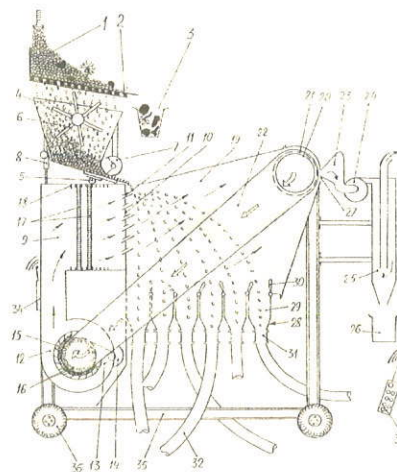
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(57) **ABSTRACT**

The invention is used in various branches of industry, in particular in agriculture for preparing seeds for sowing and for selection purposes. The method of separating a granular mixture in a flowing medium is based on a gravitational supply of particles, with an aerodynamic, monotonously increasing action thereon with a cascade of flat jets, said cascade being stabilized in terms of pressure and discharge. Large impurities are removed from the granular mixture beforehand, and stable parameters are maintained in the separation chamber. The device comprises a vibrating screen, an adjustable hopper with an agitator and a vibrating chute, a generator of a cascade of flat jets, which is connected to a drive for supplying air under pressure, a fraction collector and a separation chamber. The output of the separation chamber is covered with a filtering element in the form of a rotating drum with a calibrating sifter on the surface, said sifter being connected to a cyclone.

**8 Claims, 1 Drawing Sheet**





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- (58) **Field of Classification Search**  
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See application file for complete search history.

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