

Title (en)

Method and device for separating particulate matter.

Title (de)

Verfahren und Vorrichtung zur Trennung körniger Materialien.

Title (fr)

Méthode et appareil pour séparer des matériaux particulaires.

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Application

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Abstract (en)

The invention relates to a method and a device for separating at least one particulate, electrically conductive, non-magnetic material which is included as a constituent or as constituents in a mixture, the separation being performed in a space permeable to magnetic waves, and the mixture in the space is subjected to an alternating magnetic field generated by a rotating element equipped with magnets. According to the invention, the particles are thrown up from the bottom of the space in a direction opposite to the direction of rotation of the magnet-equipped element and corresponding to a throwing angle α relative to the horizontal plane, $0 < \alpha < 90$, and the magnet-equipped element is disposed above the separation space. The device comprises a separation space (2, 3, 4) permeable to magnetic waves, means (5) for generating an alternating magnetic field, and feeding and discharging means. The means (5) is a rotating element equipped with magnets, and a throwing apparatus (11) is provided for throwing up the particles in the separation space in a direction opposite to the direction of rotation of the means (5), which is disposed above the separation space. <IMAGE>

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