

Title (en)
MAGNETIC SEPARATOR

Title (de)
MAGNETABSCHEIDER

Title (fr)
SÉPARATEUR MAGNÉTIQUE

Publication
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Application
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Abstract (en)
[origin: WO2018177518A1] The invention relates to a magnetic separator (1) for the dry separation of material particles (5) with different magnetic susceptibilities, wherein a rotatable cylinder (10) is provided with a magnetic device (20) arranged therein in a fixed manner and extending substantially along the length. A sorting chamber (30) is also provided which extends along at least part of the lateral surface (11) of the cylinder in a circumferential direction of the cylinder and parallel to the longitudinal axis (12) of the cylinder. The magnetic separator according to the invention has a means (50) for introducing the material particles into the sorting chamber in a dispersed manner, and a means (60) for generating a conveying air flow (61) in the sorting chamber. A motor (18) is also provided to rotate the cylinder about its longitudinal axis, wherein during operation, the lateral surface of the cylinder is moved, through rotation of the cylinder, substantially normal to the direction of the flow of the conveying air.

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