

Title (en)

METHOD AND DEVICE FOR INCREASING SEPARATION ACCURACY IN AN EDDY CURRENT SEPARATORS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEIGERUNG DER TRENNSCHÄRFE VON WIRBELSTROMSCHEIDERN

Title (fr)

PROCEDE ET DISPOSITIF POUR AUGMENTER LA PRECISION DE SEPARATION DE SEPARATEURS A COURANT DE FOUCAULT

Publication

**EP 0881952 A2 19981209 (DE)**

Application

**EP 97951936 A 19971121**

Priority

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Abstract (en)

[origin: DE19649154C1] The method involves imparting a vertical movement to a material flow and moving a magnetic field (4) horizontally under the material flow, so that the material flow moves in free fall whereby the material parts (7) or particles with higher electrical conductivity (  $\kappa$  ) are accelerated under the influence of the magnetic field more strongly in the horizontal direction and the material parts or particles with lower density (  $\rho$  ) are accelerated more slowly in the vertical direction. The parts or particles with the greatest separating factor  $\kappa / \rho$  are deflected first and more strongly from the fall line in the horizontal direction and the material flow is split up accordingly. With horizontal acceleration of the particles through the magnetic field, the particles are separated according to size, shape or mass.

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