

Title (en)

Magnetic separator with eddy current, with optimised trajectory and interaction zone of the particles

Title (de)

Wirbelstrom-Magnetabscheider mit optimierter Interaktionszone und Bewegungsbahn der Teilchen

Title (fr)

Séparateur magnétique à courant de foucault avec zone d'interaction et trajectoire optimisées des particules

Publication

EP 2644277 A3 20140305 (FR)

Application

EP 13169491 A 20090827

Priority

- EP 13169491 A 20090827
- EP 09168815 A 20090827

Abstract (en)

[origin: EP2289628A1] The separator has a magnetic wheel (22) arranged opposite to an inner surface of a round wall (13). The magnetic wheel generates, in rotation, a variable magnetic field in non-ferrous metal particles and/or pieces (16), where the magnetic field induces Foucault current and interaction force with a magnetic field generated by a path that leads to eject the particles and/or pieces from a conveyor belt (2) for separation. The wall encloses one-fourth of circumference of the magnetic wheel at a constant distance. The wall and the magnetic wheel are fixed with a caisson (4).

IPC 8 full level

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CPC (source: EP)

B03C 1/0332 (2013.01); **B03C 1/18** (2013.01); **B03C 1/247** (2013.01); **B03C 2201/20** (2013.01)

Citation (search report)

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