

Title (en)

Magnetic separation of material using eddy currents.

Title (de)

Magnettrennung von Material mit Wirbelströmen.

Title (fr)

Séparation magnétique de matériau utilisant des courants de Foucault.

Publication

EP 0431965 A2 19910612 (EN)

Application

EP 90313317 A 19901207

Priority

ZA 899361 A 19891207

Abstract (en)

Non-magnetic, conductive particles are separated from one another on the basis of their respective electrical conductivities. This is achieved by irradiating the particles with microwave or radio frequency electromagnetic radiation and simultaneously subjecting the particles to a magnetic field. The eddy currents induced in the particles by the electromagnetic irradiation interact with the magnetic field to cause movements of the particles which are dependent on their conductivities. <IMAGE>

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IPC 8 full level

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