

Title (en)
DEVICE FOR EXTRACTING METALS OR METAL COMPOUNDS FROM A MATERIAL CONTAINING THE METAL OR THE METAL COMPOUND

Title (de)
VORRICHTUNG ZUR GEWINNUNG VON METALLEN ODER METALLVERBINDUNGEN AUS EINEM DAS METALL ODER DIE METALLVERBINDUNG ENTHALTENDEM MATERIAL

Title (fr)
DISPOSITIF D'OBTENTION DE MÉTAUX OU DE COMPOSÉS MÉTALLIQUES À PARTIR D'UN MATÉRIAU QUI CONTIENT LE MÉTAL OU LE COMPOSÉ MÉTALLIQUE

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Abstract (en)
[origin: WO2009076945A1] The invention relates to a device for extracting metals or metal compounds from a material containing the metal or the metal compound, with a furnace vessel (2), with a first inlet for supplying the material, a first outlet (10) for discharging exhaust gas, one or more electrodes (1) for melting and/or reducing the material supplied, which protrude into the furnace vessel, with a bottom electrode (5) formed as a cathode, a space (16) provided in the region of the slag tap hole (12) and serving as a settling zone, with an electromagnet or permanent magnet (6), which is placed in the furnace vessel in such a way that a DC current flow produced in the furnace vessel is crossed by the magnetic field, and also a tap hole (8) for removing the molten metal or the metal compound and an overflow or tap hole (12) for the slag.

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