Title (en)
USE OF THE NATURALLY OCCURRING MAGNETIC COMPONENTS OF ORES

Title (de)
NUTZUNG DER NATÜRLICH VORKOMMENDEN MAGNETISCHEN BESTANDTEILE VON ERZEN

Title (fr)
UTILISATION DES COMPOSANTS MAGNÉTIQUES NATIFS DE MINERAIS

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Abstract (en)
[origin: WO2011154540A1] The present invention relates to a method for separation of at least one first substance from a mixture containing this at least one first substance, at least one second substance and magnetic particles, comprising the following steps: (A) at least partial separation of the magnetic particles by application of a magnetic field gradient, possibly in the presence of at least one dispersion means, in order to obtain a mixture containing at least one first substance and at least one second substance and a reduced quantity of magnetic particles, (B) bringing the mixture containing at least one first substance and at least one second substance from step (A) into contact with magnetic particles, such that the at least one first substance and the magnetic particles accumulate, (C) separation of the accumulation product from the mixture from step (B) by application of a magnetic field gradient, and (D) splitting the separated accumulation product from step (C) in order to obtain the at least one first substance and the magnetic particles separately, as well as an open-loop and/or closed-loop control device for a corresponding apparatus.

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