

Title (en)

METHOD AND DEVICE FOR CARRYING OUT A TRIBOCHEMICAL REACTION

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DURCHFÜHREN EINER TRIBOCHEMISCEN REAKTION

Title (fr)

PROCEDE ET DISPOSITIF POUR EFFECTUER UNE REACTION TRIBOCHIMIQUE

Publication

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Application

**EP 03773570 A 20031022**

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Abstract (en)

[origin: WO2004038048A1] The invention relates to a method and device for carrying out a tribochemical reaction, during which Faraday instabilities are produced by the spatial to-and-fro movement of a medium that is granular, grainy or made of balls. Tribochemical reaction conditions are produced with the aid of Faraday instabilities at points of contact of particles of the medium. The medium can either participate in the reaction or behave inertly with regard to the other educts. The method is suited for extracting (raw) titanium and titanium oxide from titaniferous minerals, for example, ilmenite and rutile.

IPC 8 full level

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MELO F.; UMBANHOWAR P.B.; SWINNEY H.L.: "Hexagons, Kinks, and Disorder in Oscillated Granular Layers", PHYSICAL REVIEW LETTERS, vol. 75, no. 21, 20 November 1995 (1995-11-20), pages 3838 - 3842

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