Title (en)

METHOD AND DEVICE FOR PREPARING AND SEPARATING A MATERIAL FROM A COMBINED MULTICOMPONENT SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFBEREITEN UND TRENNEN EINES MATERIALS AUS EINEM VERBUNDENEN MEHRSTOFFSYSTEM

Title (fr)

PROCÉDÉ ET DISPOSITIF DE TRAITEMENT ET DE SÉPARATION D'UN MATÉRIAU À PARTIR D'UN SYSTÈME CONTENANT PLUSIEURS SUBSTANCES LIÉES

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Abstract (en)

[origin: WO2015051925A1] The invention relates to a method for preparing and separating a material from a combined multicomponent system. The material is fed to a roller mill as feedstock. An in-bed attrition is carried out in a grinding bed by means of grinding rollers in the roller mill, said material being attrited by shearing stresses and abrasion. In the process, the roller mill is operated such that the grinding bed has a minimum height which is greater than the diameter of one of the particles of one of the two components, and the pressure force of the rollers is selected so as to achieve a surface pressure ranging from 50 kN/m2 to 140 kN/m2 relative to the perpendicularly projected surface of the central roller diameter. The invention further relates to a vertical roller mill which is developed in order to carry out the method according to the invention.

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