

Title (en)
PROCESS AND APPARATUS FOR IMPROVING THE DISINTEGRATION OF THIXOTROPIC SUSPENSIONS BY MEANS OF ULTRASOUND

Title (de)
VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER DESINTEGRATION VON THIXOTROPEN SUSPENSIONEN MITTELS ULTRASCHALL

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR AMÉLIORER LA DÉSINTÉGRATION DE SUSPENSIONS THIXOTROPES GRÂCE AUX ULTRASONS

Publication
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Application
EP 08838241 A 20080930

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• DE 102007000824 A 20071005

Abstract (en)
[origin: CA2712108A1] The invention is based on the field of process technology and relates to a process and to an apparatus as can be used, for example, for disintegration of sludges. It is an object of the present invention to specify a process in which the dynamic viscosity of the thixotropic suspensions is lowered before and/or during the ultrasound treatment. The object is achieved by a process in which thixotropic suspensions are subjected to mechanical stress and then sent to an ultrasound treatment, at least one further suspension stream with a higher flow rate being added to the suspension stream before the ultrasound treatment. The object is additionally achieved by an apparatus consisting of a pipeline system with an apparatus part for applying mechanical stress downstream of an ultrasound probe, and orifices being present in the pipeline upstream and downstream of the region with the ultrasound probes, these orifices being connected via a further pipeline.

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