

Title (en)
PROCESS AND APPARATUS FOR TREATING EXHAUSTED ABRASIVE SLURRIES FROM THE LAPPING PROCESS FOR THE RECOVERY OF THEIR REUSABLE ABRASIVE COMPONENT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG VON VERBRAUCHTEN SCHLEIFSCHLÄMMEN AUS DEM LÄPPVERFAHREN ZUR RÜCKGEWINNUNG IHRER WIEDERVERWENDBAREN SCHLEIFBESTANDTEILE

Title (fr)
PROCÉDÉ ET APPAREIL DE TRAITEMENT DE BOUES ABRASIVES PROVENANT D'UN PROCESSUS DE RODAGE POUR LA RÉCUPÉRATION DE LEURS COMPOSANTS ABRASIFS RÉUTILISABLES

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Application
EP 07866781 A 20071204

Priority
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• IT RM20060692 A 20061222

Abstract (en)
[origin: WO2008078349A1] Process and relative apparatus for recovering the reusable abrasive component contained in an abrasive slurry for the lapping of silicon wafers, or of quartz or ceramic components, when it becomes exhausted and enriched with undesired waste matter. The process, which uses wet size-sorting treatment carried out in a battery of hydrocyclones connected in series and operating in counter-current, possibly followed by chemical etching treatment in order to eliminate the fine iron particulate and, preferably, by a further wet size-sorting treatment carried out in a second battery of hydrocyclones connected in series and operating in counter-current, enables the complete recovery of the reusable abrasive grains contained in the exhausted slurry from the lapping process. These abrasive grains are the only recoverable component of this type of slurry because the suspending liquid consists of water and the suspension-stabilising additive is present in such low quantities that its recovery is not economically feasible.

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