

Title (en)  
METHOD OF, AND APPARATUS FOR, THE PRELIMINARY GRINDING AND FINISHING OF MINERAL AND NON-MINERAL MATERIALS

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR VOR- UND FERTIGMAHLUNG VON MINERALISCHEN UND NICHTMINERALISCHEN MATERIALIEN

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE PRÉBROYAGE ET DE BROYAGE DE FINITION DE MATIÈRES MINÉRALES ET NON MINÉRALES

Publication  
**EP 2207619 B1 20131218 (DE)**

Application  
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Priority  
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Abstract (en)  
[origin: WO2009037356A1] In the preliminary grinding and finishing of mineral and non-mineral materials, e.g. limestone, cement clinker, blast-furnace slag, old concrete or ashes, the grinding material, usually comprising new and recirculated stock, is fed as a defined and laterally bounded material layer (4) of predetermined thickness from a material-supply container (3), belonging to the comminuting apparatus, by way of a roller-type or rotary-vane feeder (9), which is arranged at the outlet and can be changed in a stepless manner in respect of its rotational speed, onto the vertex of the laterally rimmed (45), driven, bottom roller (1), accelerated to the roller speed and transported continuously into the gap formed (5) with the top roller (2), arranged in an offset manner above the driven roller (1), is subjected to hydropneumatic loading using specific compressive forces of 2 to 7.5 kN/mm and is then deagglomerated within the comminuting apparatus by a preferably high-speed rotary crusher (10). This results in good utilization of energy and in low mechanical structural, servicing and maintenance outlay. Usage over a wide spectrum for comminuting different materials is made possible, and linear throughput and speed behaviour both in partial-load operation and with high mass throughputs can be realized.

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