

Title (en)
DEVICE FOR GRINDING UP NON-METALLIC PIECES

Title (de)
VORRICHTUNG ZUM ZERMAHLEN VON NICHTMETALLTEILEN

Title (fr)
APPAREIL DE BROyage DE PIECES NON METALLIQUES

Publication
EP 1633485 A1 20060315 (FR)

Application
EP 04741488 A 20040429

Priority
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• FR 0307213 A 20030616

Abstract (en)
[origin: FR2855986A1] The shredder consists of at least one driven rotary shaft (11) with teeth (8), located inside a container holding non-metallic articles to be shredded. The teeth are designed to interact with others (15) on one or more fixed combs (4, 4a, 4b) between upper and lower compartments of the container, and each comb has an electrically-conducting base (41, 42) that is raised to a given potential, and a conducting surface (14) facing the upper part of the container, insulated electrically from the base and raised to a different potential to detect the presence of metallic particles by closing the electrical circuit created. The comb bases and shaft teeth carry the same electrical potential, which can be zero, and the conducting surfaces (14) are in the form of plates attached to the bases by insulated fastenings or by screws passing through layers of self hardening insulating material between the plates and bases. The conducting plates are connected to a control unit that stops the shaft when a metal component closes the circuit.

IPC 1-7
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IPC 8 full level
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DE 602004007386 D1 20070816; DE 602004007386 T2 20080306; EP 1633485 A1 20060315; EP 1633485 B1 20070704;
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