

Title (en)
Document shredder

Title (de)
Dokumentenvernichter

Title (fr)
Déchiqueteur de documents

Publication
EP 0818241 B1 20011017 (DE)

Application
EP 97110711 A 19970701

Priority
DE 19627599 A 19960709

Abstract (en)
[origin: EP0818241A1] The document shredder has a cutting mechanism (12) driven by an electric motor (21), with a light beam switch (18,20) for the electric motor operated by the shredded material (15). The switch is coupled to a variable delay circuit (27) containing a phase detector (26), for operation of an electronic switch element (23) in the electric motor current supply circuit in synchronism with the mains voltage zero transition, for automatic cut-out of the motor.

IPC 1-7
B02C 18/00; **B02C 18/24**

IPC 8 full level
B02C 18/00 (2006.01); **B02C 18/24** (2006.01)

CPC (source: EP)
B02C 18/0007 (2013.01); **B02C 18/24** (2013.01); **B02C 2018/0023** (2013.01)

Cited by
EP1195202A1; US9724704B2; US9669410B2; US10576476B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0818241 A1 19980114; **EP 0818241 B1 20011017**; DE 19627599 A1 19980115; DE 59704928 D1 20011122

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EP 97110711 A 19970701; DE 19627599 A 19960709; DE 59704928 T 19970701