

Title (en)  
WASTE SHREDDER

Publication  
**EP 0124449 B1 19870708 (FR)**

Application  
**EP 84420050 A 19840319**

Priority  
FR 8304793 A 19830318

Abstract (en)  
[origin: EP0124449A1] 1. Waste shredder of the type comprising two parallel shafts (6) driven in rotation in opposing directions from top to bottom and from the exterior towards the interior, each shaft presenting a plurality of edges (10) distributed regularly on its periphery, the distance between the two shafts being such that their respective edges are not in contact when moving in rotation, the said shredder being equipped with a third shaft (14) which, on an axis parallel to those of the first two and arranged below these, includes tools (17) jutting out over its periphery and is driven in rotation and the speeds of drive in rotation of the first two shafts (6) being, to a greater or lesser degree, identical, characterised in that each of the edges is arranged on a circular helix, the twists of the helices, in accordance with which the edges of the two shafts are provided, acting in opposite directions, in that the speed of rotation of the third shaft (14) is appreciably greater than that of the first two shafts (6), the speeds of the first two shafts and of the third varying in a ratio of 1 to 10, and in that the third shaft (14) is displaced laterally in relation to the longitudinal mid-plane of the first two shafts (6), from the side of the shaft (6) in the direction in which it turns.

IPC 1-7  
**B02C 18/14**; **B02C 4/08**; **B02C 18/40**

IPC 8 full level  
**B02C 4/08** (2006.01); **B02C 18/14** (2006.01); **B02C 18/18** (2006.01)

CPC (source: EP)  
**B02C 18/142** (2013.01); **B02C 18/145** (2013.01); **B02C 18/182** (2013.01); **B02C 18/184** (2013.01); **B02C 2018/147** (2013.01)

Cited by  
DE19925729C1; CN110385182A; EP2711081A1; ITCH20110003A1; GB2238965A; EP0246775A3; DE102005061232A1; CN104069913A; CN106622550A; DE4444977A1; DE4444977C2; GB2201611A; GB2201611B; CN118328401A; CN102350392A; CN104437734A; EP0682883A1; GR20170100364A; GR1009916B

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0124449 A1 19841107**; **EP 0124449 B1 19870708**; AT E28133 T1 19870715; DE 3464540 D1 19870813; FR 2542632 A1 19840921; FR 2542632 B1 19860328

DOCDB simple family (application)  
**EP 84420050 A 19840319**; AT 84420050 T 19840319; DE 3464540 T 19840319; FR 8304793 A 19830318