

Title (en)
Cutting apparatus.

Title (de)
Schneidapparat.

Title (fr)
Appareil à couper.

Publication
EP 0418915 A2 19910327 (EN)

Application
EP 90118185 A 19900921

Priority
• JP 12256290 A 19900511
• JP 24767489 A 19890922
• JP 27689389 A 19891024
• JP 29883589 A 19891117
• JP 32223789 A 19891212

Abstract (en)
The invention relates to a cutting apparatus comprising an endless chain body (2) having a plurality of plate-like links (1) connected to each other for angular movement in a common plane. Each link (1) has an end face on an inner peripheral side of the chain body (2), and at least a part of the links (1) are provided with a cutting device (4) at the end face thereof. The apparatus further comprises a plurality of sprockets (88,112) supporting the chain body (2) in tension, and defining a common plane of cut effected by the combination of the chain body (2) and the sprockets (88,112). The chain body (2) is supported by a rigid backplate (118), of thickness not greater than the thickness of the links (1). It provides a firm support to the rotating chain body (2) to permit sliding movement of the chain body (2) within the common plane of cut. The apparatus further comprises a means (92) for activating the rotational movement of the sprockets in cooperation with the chain body (2), and a means (58) for moving an object (W) or the chain body (2) toward each other to effect removal of a material disposed within the extended plane of the common plane of cut to effect separation of an object (W) into severed sections.

IPC 1-7
B28D 1/08

IPC 8 full level
B27B 17/08 (2006.01); **B27B 33/14** (2006.01); **B28D 1/08** (2006.01); **B28D 1/12** (2006.01)

CPC (source: EP KR)
B27B 17/08 (2013.01 - EP); **B27B 33/14** (2013.01 - EP); **B27B 33/144** (2013.01 - EP); **B27B 33/145** (2013.01 - EP); **B27B 33/148** (2013.01 - EP); **B28D 1/08** (2013.01 - KR); **B28D 1/082** (2013.01 - EP); **B28D 1/125** (2013.01 - EP)

Cited by
CN115519051A; CN112518898A; CN107310049A; CN118123313A; WO9955506A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0418915 A2 19910327; **EP 0418915 A3 19910925**; **EP 0418915 B1 19941228**; DE 69015532 D1 19950209; DE 69015532 T2 19950608; DE 69033884 D1 20020131; DE 69033884 T2 20020718; EP 0623437 A2 19941109; EP 0623437 A3 19951115; EP 0623437 B1 20011219; KR 910005983 A 19910427

DOCDB simple family (application)
EP 90118185 A 19900921; DE 69015532 T 19900921; DE 69033884 T 19900921; EP 94109553 A 19900921; KR 900015028 A 19900921