

Title (en)

Cutting device for objects in the form of ropes or sticks.

Title (de)

Vorrichtung zum Zerschneiden von strang- oder stabförmigem Gut.

Title (fr)

Machine à découper pour des articles en forme de cordes ou de barres.

Publication

EP 0102031 A1 19840307 (DE)

Application

EP 83108114 A 19830817

Priority

DE 3231825 A 19820824

Abstract (en)

[origin: US4498362A] An apparatus for cutting rod or strand-like products comprised of a rotary holder positioned adjacent the outlet end of a tube from which a water jet is discharged and in which the rod or strand-like products are entrained. The rotary holder includes a plurality of individually actuable cutting blades movable between cutting and non-cutting positions. An optical scanner determines the presence of dark or discolored areas on the products and generates a signal timed to actuate a sufficient number of cutting blades which will cut through the product as it emerges from the tube and separate the discolored area from the acceptable areas. The cutting blades can be held inoperative by electromagnets and returned by a cam. Alternatively, the blades can include a deflection member and jet nozzles can be employed to pivot the blades in and out of the cutting position.

Abstract (de)

Eine Vorrichtung zum Zerschneiden von strang- oder stabförmigem Gut (34) enthält auf einem drehbaren Halter (21) befestigte Messer (24), die zwischen einer Arbeitsstellung, in der ihre Schneide durch das Gut (34) hindurchtritt, und einer Ruhestellung bewegbar sind, in der sich das jeweilige Messer (24) außerhalb des Bereichs der Bewegungsbahn (32) des Gutes (34) befindet.

IPC 1-7

A23N 15/00; **A24B 7/12**; **A24C 5/28**

IPC 8 full level

A23N 15/00 (2006.01); **A24B 7/12** (2006.01); **A24C 5/28** (2006.01); **B26D 1/29** (2006.01); **B26D 5/04** (2006.01); **B26D 5/34** (2006.01)

CPC (source: EP US)

A24C 5/28 (2013.01 - EP US); **B26D 1/29** (2013.01 - EP US); **B26D 5/04** (2013.01 - EP US); **B26D 5/34** (2013.01 - EP US); **Y10T 83/4708** (2015.04 - EP US); **Y10T 83/4812** (2015.04 - EP US); **Y10T 83/4824** (2015.04 - EP US); **Y10T 83/8791** (2015.04 - EP US)

Citation (search report)

- DE 2630930 A1 19780112 - FRIEDERICH JUSTUS & CO
- FR 2150688 A1 19730413 - BOJ JORGENSENS MASKINFAB
- US 4351232 A 19820928 - KROENIG HANS E K

Cited by

EP0440327A3; EP0654346A1; EP0293384B1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

US 4498362 A 19850212; AT E23099 T1 19861115; DE 3231825 C1 19840126; DE 3367154 D1 19861204; EP 0102031 A1 19840307; EP 0102031 B1 19861029

DOCDB simple family (application)

US 52582083 A 19830823; AT 83108114 T 19830817; DE 3231825 A 19820824; DE 3367154 T 19830817; EP 83108114 A 19830817