

Title (en)
Tail cutter

Title (de)
Spitzenschneider

Title (fr)
Appareil de coupe en pointe

Publication
EP 1130158 A2 20010905 (DE)

Application
EP 01115572 A 19960216

Priority

- DE 19548893 A 19951229
- DE 19539015 A 19951019
- DE 19548302 A 19951222
- DE 19507938 A 19950224
- EP 96102311 A 19960216

Abstract (en)
The pointed cutter (15), to separate a strip from a paper or cardboard web, has a rotating jet head (29) at a jet unit (17) to deliver a fluid jet stream at the web (3). The fluid jet stream acts on the web (3) where it is supported by a carrier belt (5) or where it lies on a roller (7,9,13). The fluid jet stream strikes the web (3) on a carrier belt (5) with a pressure of 100-2000 bar and preferably 200-500 bar. Where the web (3) lies on a roller (7,9,13), the fluid jet stream strikes the web (3) with a pressure of 100-2000 bar and preferably 500-1500 bar. The carrier belt (5) is a press blanket or a drying blanket. The jet head (29) rotates around an axis (31), with at least one single jet at a gap from the rotary axis (31). The rotary speed of the jet head (29) is matched to the machine speed so that during a time span that the web (3) travels in the machine running direction, the retraction path is equal to or more than twice the gap between the jet and the rotary axis multiplied by pi . A change-over system acts on at least one supply line to vary the fluid jet stream pressure through the jet assembly (17), giving a pressure difference of 100-600 bar and preferably 200-300 bar. The jet assembly (17) can have at least two separate jets, of different diameters, activated by the change-over system. The jet head (29) can be shrouded by a suction pot, linked to a suction line to extract sprayed water or water mist together with any particles carried by the water.

Abstract (de)
Es wird ein Spitzenschneider (15;102) zur Abtrennung eines Streifens (37) von einer Materialbahn (3), insbesondere Papier- oder Kartonbahn, für eine Maschine (1) zur Herstellung der Materialbahn (3) vorgeschlagen. Der Spitzenschneider (15;102) umfasst einen rotierbaren Düsenkopf (29;110) aufweisende Düseneinrichtung (17;108) zur Abgabe eines unter Druck stehenden, auf die Materialbahn (3) gerichteten Flüssigkeitsstrahles, wobei der Flüssigkeitsstrahl in einem Bereich auf die Materialbahn (3) einwirkt, in dem diese von einem Transportband (5;104) abgestützt ist oder auf einer Walze (7,9,13;106) aufliegt. <IMAGE>

IPC 1-7
D21F 1/32

IPC 8 full level
D21F 1/32 (2006.01); **D21F 7/00** (2006.01); **D21F 7/04** (2006.01); **D21G 9/00** (2006.01)

CPC (source: EP)
D21F 1/325 (2013.01); **D21F 7/006** (2013.01); **D21F 7/04** (2013.01); **D21G 9/0063** (2013.01)

Cited by
CN106120428A

Designated contracting state (EPC)
DE FR SE

DOCDB simple family (publication)
EP 1130158 A2 20010905; **EP 1130158 A3 20021009**; DE 59609276 D1 20020711

DOCDB simple family (application)
EP 01115572 A 19960216; DE 59609276 T 19960216