Title (en)

A DEVICE FOR SEVERING AN ENDLESS TUBE MADE FROM A FLEXIBLE MATERIAL

Title (de)

VORRICHTUNG ZUR TRENNUNG EINES ENDLOSROHRS AUS EINEM FLEXIBLEN MATERIAL

Title (fr)

DISPOSITIF POUR COUPER UN TUBE SANS FIN RÉALISÉ EN UN MATÉRIAU SOUPLE

Publication

EP 2822741 B1 20170301 (EN)

Application

EP 12705966 A 20120214

Priority

CH 2012000042 W 20120214

Abstract (en)

[origin: WO2013120211A1] A device for severing an endless tube made from a flexible material, the endless tube being conveyed in a transport direction, in order to obtain tube bodies for packaging tubes, comprises a guide element (110) for the endless tube, the guide element (110) having a substantially cylindrical inner surface (140) for guiding the outer surface of the endless tube. The device further comprises a cutting element (150) for cutting the endless tube along a substantially azimuthal cutting line, the cutting element (150) being arranged adjacent to the guide element (110) in the transport direction. At least in a region neighbouring the cutting element (150), the inner surface of the guide element comprises a plurality of gas delivery orifices (126). Using the gas delivery orifices (126) a gas cushion may be created between the inner surface (140) of the guide element (110) and the outer surface of the endless tube, thereby avoiding physical contact between these two surfaces and therefore reducing or eliminating abrasion of the tube material. Therefore, a high throughput is achievable and the tube bodies have a smooth outer surface and are free from contamination.

IPC 8 full level

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CPC (source: EP)

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