

Title (en)
PROCESS AND APPARATUS FOR HIGH-SPEED FILLING OF COMPOSITE CIGARETTE FILTERS

Title (de)
VERFAHREN UND VORRICHTUNG ZUM FÜLLEN VON MEHRFACH-ZIGARETTENFILTERN MIT HOHER GESCHWINDIGKEIT

Title (fr)
PROCEDE ET APPAREIL DE REMPLISSAGE A VITESSE ELEVEE DE FILTRES COMPOSITES DE CIGARETTES

Publication
EP 1571933 B1 20070321 (EN)

Application
EP 02788389 A 20021219

Priority
IB 0205519 W 20021219

Abstract (en)
[origin: WO2004056221A1] A process of manufacturing composite filter stock (14) provided that includes several steps. In a first step, a paper carrier strip (50) feeds along a conveyor (30). Along one edge of the carrier strip, the paper is folded back against itself. Fibrous filter segments (22) are then deposited on the carrying strip in spaced apart intervals. The spacing defines cavities (16) between adjacent filter segments. The carrier strip with the deposited filter segments is fed along a path (110) of travel into an elongated guide (26) or support chamber that substantially surrounds the circumference of the paper-enveloped segments (22) and which leaves a narrow fill opening (62) opposite an elongated particulate filling opening (112) that is elongated in the direction of motion of the carrying strip. Suction or a vacuum is concurrently applied adjacent the narrow opening (62), the suction increasing a downward momentum of a gravity feed stream of particulate matter (20) and concurrently vacuums away loose particulate matter. The cavities are concurrently filled with the particulate matter over a length (L) corresponding to a predetermined path of travel of the carrying strip. The folded over edge (104) is then unfolded and adhered to seal the fill opening. The filter stock is then cut to length, the cutting being registered to create discrete composite filter segments.

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Cited by
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