

Title (en)
HIGH PERFORMANCE CIGARETTE FILTER

Title (de)
HOCHLEISTUNGS-ZIGARETTENFILTER

Title (fr)
FILTRE A CIGARETTE HAUTES PERFORMANCES

Publication
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Application
EP 00972837 A 20001020

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Abstract (en)
[origin: US6776168B1] The invention relates to a high performance cigarette filter on the basis of cellulose ester fibers or filaments which can be mechanically disintegrated. The inventive high-performance cigarette filter is characterized in that a) the fiber weight (or filament weight)/draw resistance ratio S based on the filament titer is greater than approximately 0.7, the S value being calculated according to the formula $S = (mA / \Delta P \cdot 7.8 / dpf) \cdot [10 \text{ m/daPA}]$, wherein mA refers to the fiber weight, ΔP refers to the draw resistance and dpf represents the filament titer and for the draw resistance the value calculated for a diameter of 7.8 mm is inserted, b) the residual crimping value of the filter material does not exceed the value 1.45, c) the fiber weight amounts to maximally 10 mg/mm of the filter length, and d) the hardness of the cigarette filter is higher than approximately 90% filtrona hardness. The inventive filter is characterized by an improved disintegratability under environmental conditions vis-à-vis comparable products.

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IPC 8 full level
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IPC 8 main group level
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