

Title (en)

Method of producing spinnable vegetable fibres and products therefrom

Title (de)

Verfahren zum Herstellen von verspinnbaren pflanzlichen Fasern und Produkte davon

Title (fr)

Procédé de fabrication de fibres végétales filables et produits obtenus

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Application

EP 04466031 A 20041118

Priority

CZ 20033134 A 20031118

Abstract (en)

Method of production of spinnable vegetable fibers from raw multicellular vegetable fibers, during which are the multicellular vegetable fibers by mechanical action shortened, split, refined, opened and cleaned, while their surface area and diameter gets smaller. In the first step is acted on the raw multicellular vegetable fiber by a system of spikes and/or teeth and/or needles or in another way hacked rugged surfaces of a pair of cylinders (12, 21) rotating in opposite directions, while on the surface of the first of the cylinders (12) are the multicellular vegetable fibers held-down in an adjustable distance from the second cylinder (21), by means of which is reached adjustable controlled shortening of fibers while their simultaneous opening and splitting, in the second step is on the multicellular fibers prepared in the first step acted by the rugged surfaces of at least one pair of the cylinders (21, 31) rotating in the same direction, by means of which is reached a high-performance cleaning, further splitting and refining of fibers, whereas are produced multicellular vegetable fibers capable of further processing by spinning technology. Further the invention relates to the products from spinnable multicellular vegetable fibers, that is a linear fibrous formation reinforced by means of twisting or twining of parallel arranged fibers formation or bonding and a nonwoven fabric.

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