

Title (en)

SEGMENTED FIBER COMPOSITE LEAF SPRING AND METHOD FOR PRODUCING THE SAME

Title (de)

SEGMENTIERTE FASERVERBUND-BLATTFEDER UND VERFAHREN ZUR HERSTELLUNG DERSELBEN

Title (fr)

RESSORT A LAMES COMPOSITE, RENFORCE PAR DES FIBRES, SEGMENTE ET PROCEDE DE PRODUCTION ASSOCIE

Publication

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Application

EP 06818045 A 20061104

Priority

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Abstract (en)

[origin: WO2007056973A1] The invention relates to a leaf spring (1), produced from a fiber composite material, comprising a central longitudinal section (3) and two adjoining axial end sections (10, 11) for a wheel suspension on a motor vehicle, the end sections (10, 11) being tapered in relation to the width of the leaf spring. The leaf spring (1) is constituted of resin-impregnated unidirectional fibers (23) which extend axially, without being cut, between the axial ends (4, 5) of the leaf spring (1). The axial end sections (10, 11), before the unfinished leaf spring (2) is finished, have a substantially V-shaped recess or a substantially V-shaped final geometry, thereby forming two legs (8, 9) each that extend at an angle to the longitudinal extension of the unfinished leaf spring (2), said legs (8, 9) resting closely against each other in the finished leaf spring (1). The aim of the invention is to provide a fiber composite leaf spring of the aforementioned type that can be produced at low cost. For this purpose, the leaf spring (1, 2) is constituted of individual elongate segments (6; 13, 14) of substantially identical geometry which are separately produced as fiber composite bodies and which are assembled before being cured to give the leaf spring (1, 2).

IPC 8 full level

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