

Title (en)

AERODYNAMIC SPOKE STRUCTURE FOR VEHICLE WHEELS AS WELL AS METHOD FOR THE MANUFACTURE OF SAID STRUCTURE

Title (de)

AERODYNAMISCHE SPEICHENSTRUKTUR FÜR FAHRZEUGRÄDER UND HERSTELLUNGSVERFAHREN FÜR EINE SOLCHE STRUKTUR

Title (fr)

STRUCTURE DE RAYONS AERODYNAMIQUE POUR ROUE DE VEHICULE, ET PROCEDE DE FABRICATION DE CETTE STRUCTURE

Publication

EP 1420963 A1 20040526 (EN)

Application

EP 02760471 A 20020828

Priority

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- IT VI20010179 A 20010828

Abstract (en)

[origin: WO03018331A1] A spoke structure for a vehicle wheel, of the type having a mutually concentric wheel hub (M) and rim (C), comprises an elongated central portion (2; 2') with longitudinal end portions (3, 4; 3', 4'), first connecting means (5; 5') for the removable fixing of one end portion (3) to the wheel hub (M), second connecting means (6; 6') for the removable fixation of the other end portion (4; 4') to the rim, in which the central portion (2; 2') comprises a reinforcing core (9, 9') of metallic material, with which the first and second connecting means (5, 6; 5', 6') are rigidly associated, and an aerodynamically shaped external lining body (10; 10') of relatively rigid composite material, which is stably secured to the outer surface of the reinforcing core (9; 9'). The reinforcing core (9; 9') is made of a filament-like element (11; 11') with a substantially constant cross-section, which has sufficient mechanical strength to prevent the separation of two or more sections of said elongated central portion (2; 2') in the event of the breakage of the external lining body (10; 10') of composite material.

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IPC 8 full level

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Citation (search report)

See references of WO 03018331A1

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