

Title (en)

METHOD FOR MANUFACTURING RACKET STRINGS, PARTICULARLY FOR TENNIS RACKETS

Publication

**EP 0108093 B1 19870909 (DE)**

Application

**EP 83901362 A 19830513**

Priority

AT 185882 A 19820512

Abstract (en)

[origin: WO8303998A1] In the method for manufacturing strings, a plurality of narrow strip layers (22) of synthetic material are successively and coaxially helically wound on the cylindrical surface of a continuous core. The winding (3) thus produced is conveyed hot to a welding area (7) wherein the narrow strips (22) of synthetic material are mutually assembled by welding. The temperature of the welding area is adjusted high enough so that a welding between the narrow strips (22) takes place without substantially decreasing the breaking strength of the narrow strips (22) by such heat treatment. The appropriate materials for the narrow strips are olefines such as homopolymer polypropylene or terpolymer polypropylene-polyethylene-dienes. To reduce the tendency to flow, the material forming the narrow strips may contain a nucleation agent. The characteristics of the strings thus manufactured are similar to those of gut strings.

IPC 1-7

**B29D 31/00**; **A63B 51/02**

IPC 8 full level

**A63B 51/02** (2015.01); **B29C 69/00** (2006.01); **B29D 99/00** (2010.01); **B65H 81/04** (2006.01); **D02G 3/36** (2006.01); **D02G 3/44** (2006.01)

CPC (source: EP US)

**A63B 51/02** (2013.01 - EP US); **Y10T 428/2936** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE FR GB LI NL SE

DOCDB simple family (publication)

**WO 8303998 A1 19831124**; AT 389642 B 19900110; AT A185882 A 19890615; AT E29427 T1 19870915; AU 1557183 A 19831202; AU 559233 B2 19870226; DE 3373436 D1 19871015; EP 0108093 A1 19840516; EP 0108093 B1 19870909; IT 1163341 B 19870408; IT 8321032 A0 19830511; IT 8321032 A1 19841111; JP H0238703 B2 19900831; JP S59500822 A 19840510; US 4568415 A 19860204

DOCDB simple family (application)

**AT 8300014 W 19830513**; AT 185882 A 19820512; AT 83901362 T 19830513; AU 1557183 A 19830513; DE 3373436 T 19830513; EP 83901362 A 19830513; IT 2103283 A 19830511; JP 50169883 A 19830513; US 57410484 A 19840111