Title (en)

#### TWISTING DISK AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

## DRALLSCHEIBE SOWIE VERFAHREN ZUR HERSTELLUNG EINER DRALLSCHEIBE

Title (fr)

#### DISQUE DE TORSION ET PROCEDE PERMETTANT DE PRODUIRE UN DISQUE DE TORSION

Publication

### EP 1082475 B1 20020828 (DE)

Application

# EP 99910077 A 19990407

Priority

- CH 9900141 W 19990407
- DE 19815578 A 19980407

Abstract (en)

[origin: DE19815578C1] The friction disk (1), for false twisting textile yarns (4,6), has a tire (8) as the peripheral rounded friction surface (7). The tire is of a compound material, with an aramide filling, or a filling based on other plastics with high temp. resistance. The high temp. resistance component of the compound material is in a concentration of 1-50%. The proportion of high temp. resistance materials is pref. 2-20%. The peripheral tire (8) has a thin wall, with a wall thickness of at least 1-3 mm. The tire (8) has a constant thickness all round. The tire (8) is fitted to the hub (9) as a cap, in a force fit bond. The disk hub (9) has a support ring, with a shape close to the outer friction surface (7) of the tire (8), encapsulated by the tire (8). The hub (9) is injection molded, with a number of spokes for the bonded support ring, enclosed by the compound material, or the spoke structure is bonded to a number of support bodies enclosed in the compound material. The tire (8) is injection molded, using a thermoplastic material with an aramide filling. An Independent claim is included for a false twisting disk prodn. process using a disk with a peripheral tire (8) of a polyurethane based on para-phenylenediisocyanate (PPDI) using polycarbonate and polyethercarbonatediolene and their mixtures, shaped in a high pressure injection molded disk structure (1) is ground for balancing to give true running. The friction disk (1) can be molded in a single stage, with two or more mold sections forming a single mold. At least the materials of the tire and the hub are colored for quality marking, with pref. orange for the hub material and a lighter color for the tire such as yellow, green or gray, or even red or blue.

IPC 1-7

D02G 1/08

IPC 8 full level

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CPC (source: EP)

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Cited by

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