

Title (en)
Device and process for manufacturing cord threads by cabling

Title (de)
Vorrichtung zur Herstellung eines Cordfadens durch Cablieren

Title (fr)
Dispositif et procédé pour fabriqué un fil pour corde par cablage

Publication
EP 1167597 B1 20040204 (DE)

Application
EP 01108807 A 20010407

Priority
• DE 10030888 A 20000623
• DE 10030889 A 20000623

Abstract (en)
[origin: EP1167596A1] The assembly to produce a cable-twisted cord yarn (1) has a rotating pot (10) around the bobbin (5). The rotating outer yarn (3) is at its inner side, to pass over its upper edge (11) into a free yarn balloon (12) to the guide eyelet (8). A brake (7) exerts an effect on the outer yarn to give dynamic characteristics matching those of the inner yarn (2). The assembly for the production of a cord yarn has a brake (9) for the inner yarn (2), to give it at least one of the required dynamic characteristics. A transmitter (14) is at the brake with a wireless link to a receiver (15), outside the yarn balloon (12), for a continuous transmission of measurement data. The receiver is connected to an evaluation unit (16), which controls the outer yarn brake to set the dynamic characteristics of the outer yarn accordingly by regulating the applied braking force on the outer yarn. Or the character of the outer yarn can be determined by a yarn feed unit, controlled by the evaluation unit to set the yarn feed speed. The dynamic characteristic of the inner yarn is its speed of travel and/or tension. Measurements are taken by a wheel (13), with its measurements shown by its rotary angle. The transmitter and receiver operate in the optical and especially infra red spectrum, or they use radio frequencies. A generator (17) is at the inner yarn brake to give the electrical power for the operation of the transmitter, through the movement of the inner yarn.

IPC 1-7
D02G 3/28; D01H 13/10

IPC 8 full level
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CPC (source: EP)
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Cited by
DE102015005447A1; DE102011113614A1; CN103510212A; EP3165639A1; DE102008033849A1; US8256199B2; EP3088576A1; US10011924B2; EP2570527A2; US8650849B2

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DOCDB simple family (application)
EP 01108807 A 20010407; CN 01119439 A 20010605; CN 01119440 A 20010605; DE 50101422 T 20010407; EP 01108806 A 20010407