

Title (en)

Device for continuously inserting a core in a sliver

Title (de)

Vorrichtung zum fortlaufenden Einbringen eines Kernfadens in ein Faserband

Title (fr)

Dispositif pour l'insertion en continu d'un fil d'ame dans une mèche de fibres

Publication

EP 0753613 B1 20000621 (FR)

Application

EP 96440055 A 19960711

Priority

FR 9508585 A 19950711

Abstract (en)

[origin: EP0753613A1] An appts. to deliver a continuous stretch core (3) to a cladding fibre (2) feed, in the prodn. of core spun yarns, has a deflection roller (9) for the core (3) at a gap (D) from the feed roller (6) of at least 250 mm, with free core travel along this stretch (D) to take up vibrations through the passage of the fibres (2) acting on the feed roller (6). A drawing stage for the core yarn (3) has a leading section (24) defined by the support shaft (20) and the deflection roller (9). A second drawing stage is defined by the deflection roller (9) and the feed roller (6). The total stretch coefficient of the successive stages (24,25) is set through a higher stretch in the first stage (24) than in the second (25) so that, at the feed roller (6), the core has a very low differential tension. Pref. the stretch coefficient at the first drawing stage (24) is 80-98% and pref. 95% and, at the second stage (25) is 2-20% and pref. 5%. The support shaft (20), deflection roller (9) and feed roller (6) have independent motor drives (21-23), with power supplied through electronic variable speed units. A central unit (26) is programmable to control the motors (21-23). The deflection roller (9) has a V-shaped circular groove, with a groove base in an arc segment at a radius set according to the core yarn (3) dia..

IPC 1-7

D02G 3/32

IPC 8 full level

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Cited by

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