

Title (en)

High speed circular knitting machine with a floss blowing and heat dissipating apparatus

Title (de)

Hochgeschwindigkeitsrundstrickmaschine mit einer Faserabfällenluftblas- und Wärmeabfuhrvorrichtung

Title (fr)

Métier à tricoter circulaire à grande vitesse avec un appareil pour souffler la bourre et dissiper la chaleur

Publication

EP 1905876 B1 20091111 (EN)

Application

EP 06121568 A 20060929

Priority

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Abstract (en)

[origin: EP1905876A1] A floss blowing and heat dissipating apparatus for high speed circular knitting machines includes an annular duct (20) located beneath a circular frame plate (13) and an airflow generator (60) to generate pressurized air. The annular duct (20) has a passage (40) inside and an air intake connector (30) located thereon communicating with the passage (40), and a plurality of air vents (22) close to a cylinder (16) and straddle seats (11) communicating with the passage (40). The airflow generator (60) generates the pressurized air which is delivered to the air intake connector (30) through an air directing hose (61) so that the passage (40) delivers the pressurized air to the air vents (22) to eject the pressurized air forcefully towards the straddle seats (11), the cylinder (16) and needles (17) of a circular knitting machine (1) where the floss is most likely to accumulate to carry away the floss. It also can reduce the temperature generated by the friction between needle troughs and needles (17) to achieve optimal cooling effect.

IPC 8 full level

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