

Title (en)

CARD COMPRISING A FLANGE SYSTEM THAT REDUCES THE BUILD-UP OF FIBRES

Title (de)

KARTE MIT EINEM FLANSCHSYSTEM ZUR VERRINGERUNG VON FASERBILDUNG

Title (fr)

CARDE ÉQUIPÉE D'UN SYSTÈME DE FLASQUES RÉDUISANT LES ACCUMULATIONS DE FIBRES

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Application

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Abstract (en)

[origin: WO2017194878A1] The invention relates to a card (1) comprising a carding cylinder (2) and at least one carding roller (3) mounted on the periphery of the carding cylinder (2), the support shaft (30) of the carding roller (3) being rotatably mounted on the frame by means of bearings (4) at each end of the carding roller (3). The card also includes at least two end flange systems (5) mounted fixed at each end of the carding roller (3), with the support shaft (30) extending through each flange. Each flange covers the end face of the carding roller and connects the bearing (4) to the periphery of the carding roller (3). According to the invention, each flange system (5) comprises: a cavity (50) inside the flange system; external means for supplying air to the cavity; a nozzle system (52) for blowing air from the cavity onto the fixed peripheral area of the flange system, at least in the upper part thereof; as well as two circular elements assembled to one another, including a first flange element (54) covering the end face of the roller (3), and a second bearing element (55), the inside diameter of which engages directly (or not) with the bearing (4). The aforementioned air-supplied cavity (50) at least partially takes the form of a groove in the second bearing element (55) that opens at the side of the second bearing element (55) and is closed partially by the inner surface of the first flange element (54), opposite the outer face of the first element (54) facing the roller (3). The nozzle system (52) is formed by a slit in the flange system (5), defined by a peripheral gap between the first flange element (54) and the second bearing element (55).

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