

Title (en)

PROCESS AND DEVICE FOR PIECING A THREAD IN A SPINNING ROTOR OF AN OPEN-END SPINNING DEVICE

Publication

EP 0042906 B1 19831130 (DE)

Application

EP 81101501 A 19810303

Priority

DE 3023959 A 19800626

Abstract (en)

[origin: US4395870A] A method and apparatus for piecing a yarn in a spinning rotor of an open end spinning device is disclosed wherein an increased quantity of fibers is momentarily fed into the spinning rotor after the yarn is returned to the spinning rotor, whereupon the fiber supply is reduced to the normal supply quantity. Preferably, during termination of the spinning process, fibers are stored between a supply device and a fiber opening device which on commencing the piecing process are suddenly released, while at the same time the fiber supply resumes at the normal rate. For effecting the method an abutment surface (110) is preferably provided in a feed channel (11) on the side of a clamping point (15) of a clamping lever (5) for acting on the feed channel (11) facing away from the opening roller (2). The abutment surface (110) is abutted by a tow guide funnel (51) of the clamping lever (5) during a first part of the pivotal movement of the clamping lever, while during a second part of the pivotal movement of the lever, a clamping end (51) of the clamping lever (5) engages the fiber tow 4 at the clamping point (15) of the feed channel (11) and the guide funnel lifts from the abutment surface (110) while the feed channel is displaced away from the effective area of a fiber opening roller 2. A fiber store 6 is built up between a feed roller 10 and the fiber opening roller 2 during pivotal movement of clamping lever which is actuated by electromagnet 55 in response to a yarn break sensed by monitor 31. Upon release of the clamping lever 5 after stopping and restart of the spinning process, the feed channel is released bringing the fiber store suddenly into the operating area of opening roller 2 for release of the stored fibers in the spinning rotor 3 while at the same time normal fiber supply resumes.

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