

Title (en)
Process for centrifugal spinning

Title (de)
Verfahren zum Zentrifugalspinnen

Title (fr)
Procédé de filage centrifuge

Publication
EP 0651078 B1 19990929 (FR)

Application
EP 93500149 A 19931103

Priority
EP 93500149 A 19931103

Abstract (en)
[origin: EP0651078A1] The spinning apparatus comprises two centrifugal spinning cans (7, 8) fed alternately by two conduits (5, 5'; 6, 6') connecting a drawframe to these spinning cans (7, 8) and commencing at a junction located at the exit of a common conduit (3). Each conduit (5, 6) comprises a set of nozzles (22, 23) intended for generating a helical flow. Two storage bobbins (9, 10) are arranged between the two parts of the conduits (5, 5'; 6, 6') in order to receive the spun thread in the cans (7, 8). Two pneumatically actuated pushers (11, 12) are intended for nipping the thread against the storage bobbins and at the same time interrupting the increase in the twist in the thread. Since, simultaneously with the actuation of one of the pushers (11, 12), the set of nozzles (22, 23) arranged in the conduit (5, 6) which is to receive the thread generates a helical air flow in this conduit at the moment when the spinning can is changed, the thread is sucked into this conduit. Because it no longer receives any twist after the nipping of the thread, the force thus exerted makes it possible to separate it and to direct the bundle of fibres (4) into the new conduit where it receives a twist. Another injector (20) is arranged at the exit of the drawframe (1, 2) in order to impart the sufficient cohesion of the fibres making it possible to maintain uniformity and is actuated with a predetermined delay in relation to the nozzles (22, 23) in order to assist the release of the thread and the change of conduit. <IMAGE>

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