

Title (en)  
SPINNING DEVICE

Title (de)  
SPINNVORRICHTUNG

Title (fr)  
DISPOSITIF DE FILAGE

Publication  
**EP 1332248 B1 20160413 (DE)**

Application  
**EP 01962535 A 20010919**

Priority  
• CH 0100569 W 20010919  
• CH 18452000 A 20000922

Abstract (en)  
[origin: WO0224993A2] The invention relates to a spinning device, which, according to the invention, differs from the state of the art in fig. 1 as per fig. 2. According to the state of the art the fibres, introduced by means of a fibre supply channel (13), (compacting by light twisting), are guided to a spindle (6), in rotation around the tip of a needle (5) in a yarn guide channel and thus compacted, said rotation occurs as a result of an airflow generated by the nozzles (3). The tip of the needle (5) has the purpose of guiding the fibre and of avoiding a false twist returning up the fibre supply channel such that, for example, a knot occurs on a feed roller pair as a result of the twist in the fibres, as such a knot can at least affect the formation of the thread if not stop the same. According to the invention in fig. 2, no needle tip is aligned with the opening of a yarn supply channel (45), rather a fibre outlet slope (29) is provided by means of which the fibres are guided into an opening of the thread guide channel in an open, essentially flat state lying adjacent to each other. A false twist is thus avoided on a fibre guide surface (28) of a fibre supply element (27) and, due to the close proximity of the fibre outlet slope (29) to the opening of the yarn guide channel and said open state, a distinct yarn guidance occurs which permits a better control of the transfer from the fibre guide channel (28) into the opening of the said yarn guide channel. The nozzles (21) are set such that for reasons of an injector effect, supply air is sucked through the fibre supply channel (28) and an air vortex is generated in a vortex chamber (2) which rotates the rear ends of fibres around themselves, the front ends of which are already in the yarn supply channel (45), such that a yarn is produced with characteristics very similar to those of a ring spun yarn.

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