

## Title (en)

Method and device for pneumatically picking up and supplying a sliver end on an open-end spinning device

## Title (de)

Verfahren und Vorrichtung zum pneumatischen Aufnehmen und Zuführen eines Faserbandendes an eine OE-Spinnvorrichtung

## Title (fr)

Méthode et dispositif pour recevoir et alimenter à actionnement pneumatique un bout de mèche sur une machine à filer à bout libre

## Publication

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## Application

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## Abstract (en)

To lay a sliver automatically at the feed of a textile machine, eg drawing unit, spinner, knitter, the end of the sliver is brought to a defined holding position to be taken as the start of the sliver for transfer to the feed mechanism. The end of the sliver is first brought to a ready position before moving to the holding position. The ready or holding positions can be at the supply can in the centre or at its circumference. The sliver end in the can or extending downwards has a min length of 100 mm and a max length of 200 mm. When the can is being filled, the last section of sliver is taken as the start and placed in a ready position so that it is correctly placed when the can is moved into the holding position for the required feed unit. The sliver movement into the can, on filling, is ended after the can has been moved clear of the filling station to be laid at the trailing side of the can to be secured in place during the can movement to the textile machine. The can is not allowed to rotate until it is at the holding position. At the ready and/or holding positions, the start of the sliver is laid on a defined path in a preset length to be clamped near the start end while the sliver has axial movement at the trailing end of the path. The sliver is positioned above the textile machine feed from the can in the holding position, and clear of any other slivers. The start of the sliver is prepd and is given a partic starting length while any section which varies from nominal thickness is severed, or the length is achieved by drawing the sliver apart.

## Abstract (de)

Die Erfindung betrifft ein Verfahren zum pneumatischen Aufnehmen und Zuführen eines in einer Kanne abgelegten Faserbandes (4) an einem zur Aufnahme durch einen Bandzubringer (55) bereitgelegten Faserbandende an einer OE-Spinnvorrichtung und eine Vorrichtung zum Einführen dieses Faserbandendes in einen Klemmbereich zwischen einer Lieferwalze (20) und einer Speisemulde (21) einer Speisevorrichtung (2). Der Erfindung liegt zugrunde, daß das Faserbandende in der Kannenmitte oder über den Kannenrand hängend bereitgelegt wird und pneumatisch durch einen Bandzubringer (55) ergriffen und an die Speisevorrichtung (2) übergeben wird. Die Übergabe erfolgt derart, daß der Saugluftstrom in einen Druckluftstrom umgeschaltet wird und dadurch das Faserband (4) aus dem Bandzubringer (55) entnommen wird und das Faserbandende bis in den Klemmbereich der Speisevorrichtung (2) eingeblasen wird. <IMAGE>

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## Citation (applicant)

- DE 2646313 A1 19780420 - SCHLAFHORST & CO W
- EP 0348678 A1 19900103 - SCAGLIA SPA [IT]
- EP 0368023 A2 19900516 - KRUPP WIDIA GMBH [DE]
- US 4838018 A 19890613 - HOEBER WERNER G [DE]

## Cited by

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