

Title (en)  
DEVICE FOR PRODUCING A SPUN YARN

Title (de)  
VORRICHTUNG ZUR HERSTELLUNG EINES GESPONNENEN GARNES

Title (fr)  
DISPOSITIF POUR PRODUIRE UN FILE

Publication  
**EP 1415027 A1 20040506 (DE)**

Application  
**EP 02748531 A 20020805**

Priority  
• CH 0200430 W 20020805  
• CH 14622001 A 20010808

Abstract (en)  
[origin: WO03014443A1] In order to produce a spun yarn (4) from a loose fiber assembly (2), devices are used in which a whirling chamber (3) is provided between a fiber supply channel (1) and yarn draw-off channel (5). A fluid is blown into the whirling chamber (3). In order to guide the fibers or fiber areas (8) swirling in the whirling flow, this device comprises, inside the whirling chamber (3), a guide surface (20), which delimits the whirling chamber (3) downstream and which extends in a collar-like manner around the entry opening (11) of the yarn draw-off channel (5). The guide surface (20) forms an angle (  $\alpha$  ) of at least 30 DEG (preferably 40-90 DEG ) with the axis of the yarn draw-off channel (5) in the direction of yarn draw-off, and outer areas of this guide surface (20) are located at a distance from the entry opening of the yarn draw-off channel (5) that corresponds to at least one-tenth (preferably at least one-sixth) of the effective stacking length of fibers to be processed. Less fiber friction on walls occurs in the inventive device whereby making the imparting of twist more efficient and enabling the production of yarns of a quality which is higher than that of yarns produced using prior art devices.

IPC 1-7  
**D01H 4/02**; **D01H 1/115**

IPC 8 full level  
**D01H 1/115** (2006.01); **D01H 4/02** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
See references of WO 03014443A1

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