

Title (en)  
Spindle for producing a yarn or a thread

Title (de)  
Spindel zur Herstellung eines Garns oder Zwirns

Title (fr)  
Broche pour la production d'un fil textile

Publication  
**EP 0616057 B1 19970723 (DE)**

Application  
**EP 94102175 A 19940212**

Priority  
DE 4308024 A 19930313

Abstract (en)  
[origin: DE4308024C1] A two-for-one twisting spindle has an arrangement for treating the yarn balloon with a fluid medium (M1) supplied through a connection (3) which has an exit (3.3) coaxial or parallel to the spindle axis (A). At least the final section (3.2) can rotate about the spindle axis and contains a yarn guide tube (4), one end (4.1) of which exits coaxially and the other (4.2) essentially radially. USE/ADVANTAGE - For treating yarn on two-for-one twisters with conditioned air or with air carrying suspended drops or particles. Method of guiding fluid stream does not increase spindle height and gives clear fluid passages less prone to formation of solid deposits.

IPC 1-7  
**D01H 7/86**; D01H 13/30; D01H 1/42

IPC 8 full level  
**D01H 7/04** (2006.01); **D01H 7/86** (2006.01); **D01H 13/30** (2006.01)

CPC (source: EP US)  
**D01H 7/86** (2013.01 - EP US)

Designated contracting state (EPC)  
CH FR GB IT LI

DOCDB simple family (publication)  
**DE 4308024 C1 19940331**; CN 1035446 C 19970716; CN 1094767 A 19941109; CZ 284961 B6 19990414; CZ 56694 A3 19941019; EP 0616057 A1 19940921; EP 0616057 B1 19970723; JP H06306714 A 19941101; US 5457950 A 19951017

DOCDB simple family (application)  
**DE 4308024 A 19930313**; CN 94102894 A 19940313; CZ 56694 A 19940311; EP 94102175 A 19940212; JP 3950394 A 19940310; US 21249994 A 19940311