

Title (en)  
Spinning system with roving frames and with ring spinning machines

Title (de)  
Spinnanlage mit Vorspinnmaschinen und mit Ringspinnmaschinen

Title (fr)  
Système de filature avec bancs à broches et métiers à filer à anneaux

Publication  
**EP 0916753 A3 20000719 (DE)**

Application  
**EP 98120788 A 19981103**

Priority  
DE 19749024 A 19971106

Abstract (en)  
[origin: EP0916753A2] In a spinning plant, at least one color sensor (17) automatically registers the different colors of the roving bobbin sleeves (11) moving past on the continuous conveyor (7), to control the working of the transfer unit (5) accordingly. A color sensor is at each transfer unit (5) for its control. At least one color sensor is at the conveyor, linked to a central control (19) to set the working of at least one transfer unit at a roving frame (1). The color sensor has discrimination for at least n different colors, where n is the number of roving frames installed, or the color discrimination is for n+m colors, where n is the number of roving frames and m the number of roving qualities which can be changed simultaneously. At least one color sensor is in front of the filling sensor (12), in the direction of travel of the roving bobbins (10) and roving bobbin sleeves (11), or vice versa to activate the color sensor. The color sensor and filling sensor are combined in a sensor unit. An Independent claim is included for the operation of the spinning plant. As a suspended conveyor (7) position passes towards a transfer unit, a preceding color sensor (17) registers whether the position is occupied by a full roving bobbin or an empty roving bobbin sleeve, for the filling sensor to be activated as required according to the color/quality. Or the filling sensor monitors the conveyor position to activate the color sensor.

IPC 1-7  
**D01H 1/00; D01H 9/18**

IPC 8 full level  
**D01H 1/00** (2006.01); **D01H 9/04** (2006.01); **D01H 9/18** (2006.01)

CPC (source: EP US)  
**D01H 9/182** (2013.01 - EP US)

Citation (search report)  
• [YA] EP 0392249 A2 19901017 - SCHLAFHORST & CO W [DE]  
• [YA] DE 19508399 A1 19960912 - ZINSER TEXTILMASCHINEN GMBH [DE]  
• [A] DE 4315258 A1 19931111 - MURATA MACHINERY LTD [JP]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 53 (C - 404) 19 February 1987 (1987-02-19)

Cited by  
CN107686030A; EP3385414A1; CN108689242A; IT201700037751A1

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