

Title (en)  
Automated spinning apparatus and process

Title (de)  
Automatisierte Spinnvorrichtung und Verfahren

Title (fr)  
Procédé et appareil de filature automatisée

Publication  
**EP 0985755 A1 20000315 (EN)**

Application  
**EP 99203798 A 19940930**

Priority  

- EP 94930503 A 19940930
- US 13446193 A 19931008
- US 21737594 A 19940324

Abstract (en)  
A plant structure having three floors (3, 5, 7) with first and second ringless spinning apparatuses (11, 13) located on the first floor and with vertical sliver feed tubes (31, 33) extending from the first and second ringless spinning apparatuses respectively to the second floor for feeding a sliver (45, 47) through the sliver feed tube to the first ringless spinning apparatus and to the third floor for feeding sliver from a can thereof to said second ringless spinning apparatus. <IMAGE>

IPC 1-7  
**D01H 13/04**; **D01H 13/30**

IPC 8 full level  
**D01H 1/16** (2006.01)

CPC (source: EP KR)  
**D01H 1/16** (2013.01 - EP); **D01H 13/04** (2013.01 - KR)

Citation (search report)  

- [X] US 3448571 A 19690610 - TSUZUKI RYOHEI
- [X] PATENT ABSTRACTS OF JAPAN vol. 15, no. 421 (C - 878) 25 October 1991 (1991-10-25)

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 0985755 A1 20000315**; KR 0140429 B1 19980701; KR 950704550 A 19951120

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**EP 99203798 A 19940930**; KR 19950702309 A 19950608