



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 707 100 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
21.08.1996 Bulletin 1996/34

(51) Int. Cl.⁶: **D01H 5/26**

(43) Date of publication A2:
17.04.1996 Bulletin 1996/16

(21) Application number: **95115980.5**

(22) Date of filing: **10.10.1995**

(84) Designated Contracting States:
CH DE IT LI

(30) Priority: **11.10.1994 JP 245624/94**

(71) Applicant: **Kabushiki Kaisha
Toyoda Jidoshokki Seisakusho
Aichi-ken 448 (JP)**

(72) Inventors:
• **Aizawa, Hitoshi,**
c/o K.K. Toyoda Jidoshokki
Kariya-shi, Aichi-Ken (JP)

• **Ashizaki, Tetsuya,**
c/o K.K. Toyoda Jidoshokki
Kariya-shi, Aichi-Ken (JP)

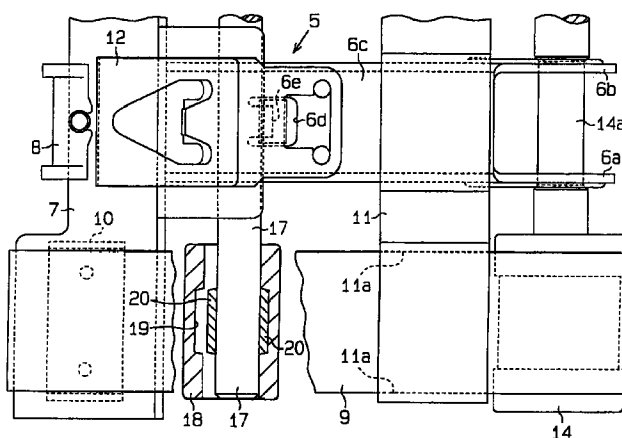
(74) Representative: **Pellmann, Hans-Bernd, Dipl.-Ing.
et al
Patentanwaltsbüro
Tiedtke-Bühling-Kinne & Partner
Bavariaring 4
80336 München (DE)**

(54) **Drafting apparatus in spinning machine**

(57) The drafting apparatus in a spinning machine is provided with a top apron (9) and a bottom apron (1), which are respectively wrapped around two pairs of drive rollers and tensors (3,7) and are brought into contact with each other. An intermediate bottom roller (4) engages the bottom apron (1). A weight roller (18) engages the top apron (9) to oppose the intermediate bottom roller (4) and to press the top apron (9) by its own weight toward the bottom apron (1). A cradle (5)

having a lateral face is located to support the top apron (9). A support shaft (17) has a free end portion on which the weight roller (18) is loosely fitted. The support shaft (17) is cantilevered from the lateral face of the cradle (5). The weight roller (18) is arranged to be removable in a direction away from the lateral face of the cradle (5). A restriction keeps the weight roller (18) from shifting toward the free end of the support shaft (17).

Fig.1



EP 0 707 100 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 95 11 5980

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A,D	JP-B-28 005 631 (...) * the whole document *	1	D01H5/26
A	FR-A-2 273 095 (N. SCHLUMBERGER & CIE) * figure *	1	
A	US-A-4 067 088 (WÜRMLI) * the whole document *	1	
A	DE-C-741 141 (KLUFTINGER) * the whole document *	1	
A	DE-A-42 15 004 (STAHLECKER) * the whole document *	1-10	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			D01H
Place of search		Date of completion of the search	Examiner
THE HAGUE		11 June 1996	Tamme, H-M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.92 (P04C01)