

(19)

Europäisches Patentamt

European Patent Office

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(11)

EP 0 848 093 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
31.03.1999 Bulletin 1999/13

(51) Int. Cl.⁶: **D01H 13/10**

(43) Date of publication A2:
17.06.1998 Bulletin 1998/25

(21) Application number: **97121097.6**

(22) Date of filing: **01.12.1997**

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **16.12.1996 JP 335868/96**

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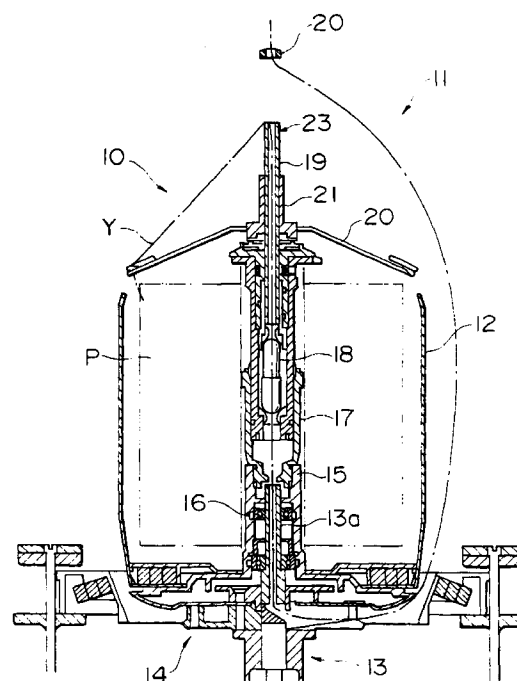
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(54) Twisting tenser

(57) To enable composite yarn, including thick elastic yarn, to be twisted.

The present invention provides a twisting tenser 10 of composite yarn Y, including elastic yarn y_2 , wherein the upper end 23 of a guide pipe 19 that engages the composite yarn Y has a rough surface 24. The rough surface 24 has a surface roughness of $4\text{ }\mu\text{m}$ to $15\text{ }\mu\text{m}$ R_{max} , and is finished by blasting or formed by biscuit-firing.

FIG. 3



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EUROPEAN SEARCH REPORT

Application Number
EP 97 12 1097

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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 3 February 1999	Examiner Tamme, H-M
CATEGORY OF CITED DOCUMENTS 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 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 & : member of the same patent family, corresponding document			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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