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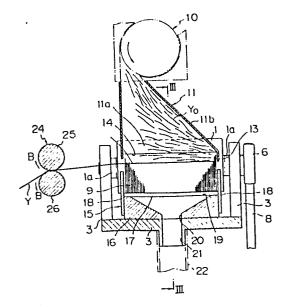
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(54) Device for producing yarn.

(57) A device for producing a yarn from a staple fiber, comprising a pair of twisting rollers (1,2) rotatable in the same direction and arranged in a manner confronting each other with a small gap (G) between peripheral surfaces thereof, a spinning zone being formed on the upper surfaces of the twisting rollers (1,2) in the vicinity of confronting portions of the rollers for condensing staple fibers to form a fiber bundle, at least one of the twisting rollers being provided with a plurality of grooves (9) on at least one part of a peripheral surface thereof; a first duct (11) for supplying a separated staple fiber, provided with an outlet opening disposed closely above the spinning zone; a second duct (15) for sucking air, provided with an outlet opening disposed to confront the outlet opening of the first duct (11) while intervened by the spinning zone so that the air is sucked from the spinning zone through a channel formed by the grooves; and means (24) for withdrawing the fiber bundle from the spinning zone in a direction substantially along an axis of the twisting rollers to form a yarn.

Fig. 2





EUROPEAN SEARCH REPORT

EP 85 10 9828

ategory	Citation of document with	DERED TO BE RELEVANT indication, where appropriate, int passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.4)
Y	AT-A- 338 666 GmbH & CO. KG) * Page 2, line JP-B-55 23 929	(DR. E. FEHRER s 13-30,34-43 * &	1-5	D 01 H 1/13 D 01 H 7/88
Y	DE-A-2 810 184 MASCHINENFABRIK * Claims 1,4,5; page 10, line 6	AG) page 9, line 23 -	1-5	
P,X	DE-A-3 307 082 STAHLECKER) * Claims 1,7-9,1		1-5	
P,X	DE-A-3 308 249 STAHLECKER) * Claims 1,12 *	(F.u.H.	1-3	TECHNICAL FIELDS SEARCHED (Int. CI 4)
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	The present search report has b	een drawn up for all claims		
Place of search Date of completion of the search			Examiner	
Y:pa	THE HAGUE CATEGORY OF CITED DOCUMENT COMMENT OF CATEGORY OF CITED DOCUMENT OF CATEGORY Schnological background on-written disclosure	E : earlier pa after the rith another D : documer L : documer	principle und itent documer filing date it cited in the it cited for oth	erlying the invention int, but published on, or application er reasons atent family, corresponding