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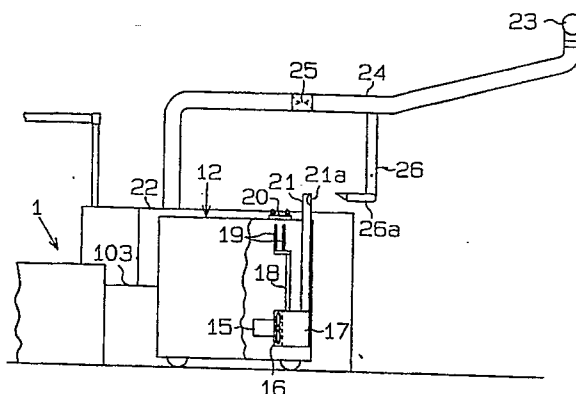
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(54) **Roving chip collecting system for roving bobbin replacing apparatus.**

(57) Disclosed is a chip collecting system for a bobbin replacing apparatus. It is an object of this invention to achieve full automation of the recovery of roving chips from the chip collecting chamber in a bobbin replacing apparatus, wherein the unnecessary roving chips are temporarily accommodated in a chip collecting chamber (17) of the bobbin replacing apparatus (12) through a suction pipe (18); upon

arrival of the bobbin replacing apparatus (12) to the position where it opposes to a chip removing system (26), an exhaust pipe (21) is connected to the chip removing system (26) to communicate the chamber (17) to the outside, whereupon the roving chips in the chamber (17) are removed through the exhaust pipe (21).

Fig. 1



EP 0 440 213 A3



EP 91 10 1231

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.5)
0,A	EP-A-213 962 (HOWA MACHINERY LTD) \$JP-A-62057957 * column 18, line 20 - column 21, line 6; figures 1,3,7,8,21 * ---	1	D01H11/00 D01H9/00
A	EP-A-258 188 (HOWA MACHINERY LTD) * column 10, line 1 - line 54 * * column 19, line 33 - line 40 * * figure 1AB2 * ---	1	
A	US-A-2 147 190 (C.C. CADDEN) * the whole document * ---	1	
A	FR-A-2 502 192 (PONS UBACH) * page 2, line 30 - line 35 * * page 8, line 29 - line 34 * * claim 5; figures 1-3 * ---	1	
A	FR-A-1 382 564 (SULZER FRERES SOCIETE ANONYME) * the whole document * ---	1	
A	FR-A-1 188 285 (W. REINERS) * figure 1 * -----	1	TECHNICAL FIELDS SEARCHED (Int. Cl.5) D01H B65H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19 JUNE 1991	Examiner S. FAIRBANKS
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			