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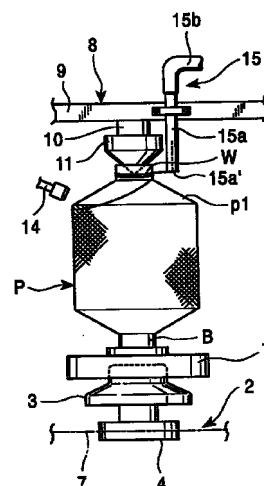
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(54) **Package inspection device**

(57) An intake member 15 which sucks in the tip of a loosened bunch winding yarn W and removes it from the inspection area of package P is arranged in a package inspection device. Since the loosened bunch winding yarn W is removed from the inspection area by the intake member, the tip of the loosened bunch winding is prevented from unraveling from the package, entering the inspection area, and interfering with the inspection.

FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
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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)
X	US 5 315 366 A (K. INADA ET AL.) 24 May 1994 (1994-05-24) * column 2, line 65 - column 3, line 43 * * column 4, line 52 - column 6, line 8 *	1-3,5	B65H63/00
D,A, P	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11, 30 September 1998 (1998-09-30) & JP 10 153414 A (MURATA MACH LTD), 9 June 1998 (1998-06-09) * abstract *	1,4,5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B65H G01N
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14 March 2000	Examiner D'Hulster, E
<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 & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 12 0585

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5315366 A	24-05-1994	CH 685341 A	15-06-1995
		IT 1253992 B	05-09-1995
		US 5337138 A	09-08-1994
JP 10153414 A	09-06-1998	NONE	