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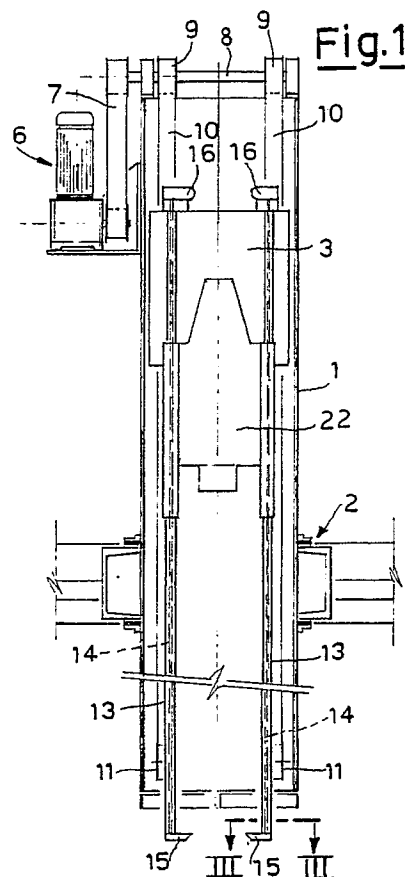
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(54) **Loading and unloading device for stackers of yarn cones in variable number with the possibility of insertion and extraction of a compression element of the stacked cones.**

(57) The device includes a tubular outer housing (1) having a vertical axis, in which a main mobile element (3) may be made to slide supporting a plurality of vertical rods (14) provided with lower terminal tangs (15) which may be made to engage with the base of a selected cone. An auxiliary mobile element (22) below provided with means (35) for the engagement and the disengagement of a compression element (37) of the stacked cones may be made integral with said main mobile element (3) at a variable preset distance.



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## EUROPEAN SEARCH REPORT

Application Number

EP 89 20 1780

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)
A	EP-A-0 255 491 (GUALCHIERANI SYSTEM) * the whole document ** -- -- --	1-4	B 65 H 67/06 D 06 B 23/04
A,P	EP-A-0 311 986 (CAMEL ROBOT S.P.A.) * the whole document ** -- -- --	1-4	
A	DE-A-2 300 838 (K. BECKER) * page 13, line 5 - page 14, line 23 ** -- -- --	1,2	
A	EP-A-0 130 092 (SOC. BARRIQUAND) * figures 9-13 ** -- -- -- --	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)  B 65 H D 06 B
Place of search  The Hague		Date of completion of search  11 October 91	Examiner  D HULSTER E.W.F.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone</div> <div>Y : particularly relevant if combined with another document of the same category</div> <div>A : technological background</div> <div>O : non-written disclosure</div> <div>P : intermediate document</div> <div>T : theory or principle underlying the invention</div> <div>E : earlier patent document, but published on, or after the filing date</div> <div>D : document cited in the application</div> <div>L : document cited for other reasons</div> <div>&amp; : member of the same patent family, corresponding document</div>			