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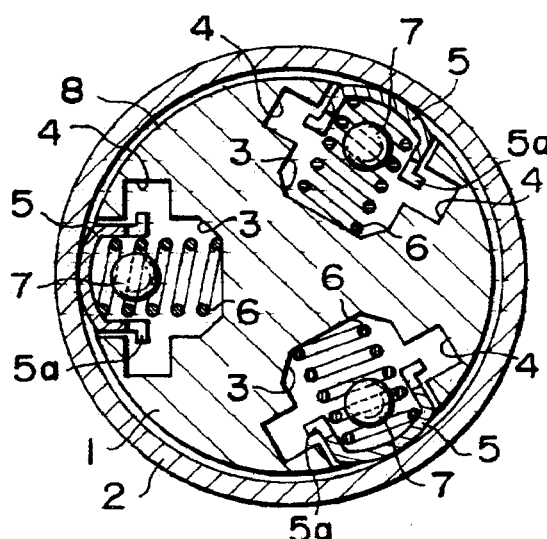
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(54) **Spindle for a spinning machine**

(57) A spindle for a spinning machine is provided which can prevent a bobbin from slipping even if rotational speed changes are great during the starting and stopping of rotation, and in addition which decreases the pulling force and insertion force needed to exchange bobbins. A plurality of recesses (3) are formed at equal intervals in a top portion of the spindle (1). An annular groove (4) is formed in an inner circumferential surface of each recess (3). A cap (5) is received in the recess (3) with a part of the cap (5) projecting outside of the circumferential surface of the spindle (1). A coil spring (6) is disposed within the recess (3). A ball (7) is disposed inside of the coil spring (6). The spring force of the coil spring (6) is set at such a level that a biasing force that can prevent slippage of the bobbin (2) is applied to the cap (5) even when the rotational speed changes are great during the starting and stopping of rotation. The ball (7) is formed to have a weight wherein the sum of the biasing force of the coil spring (6) to the cap (5) when a full bobbin (2) is rotated and the biasing force caused by the centrifugal force of the ball (7) can prevent the slippage between the fully wound bobbin (2) and the cap (5).

FIG. 1B



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EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DE 43 23 068 A (RIETER AG MASCHF) 3 February 1994 (1994-02-03)	1-4, 6	D01H7/16
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			D01H
Place of search		Date of completion of the search	Examiner
THE HAGUE		21 October 1999	Henningsen, O
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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