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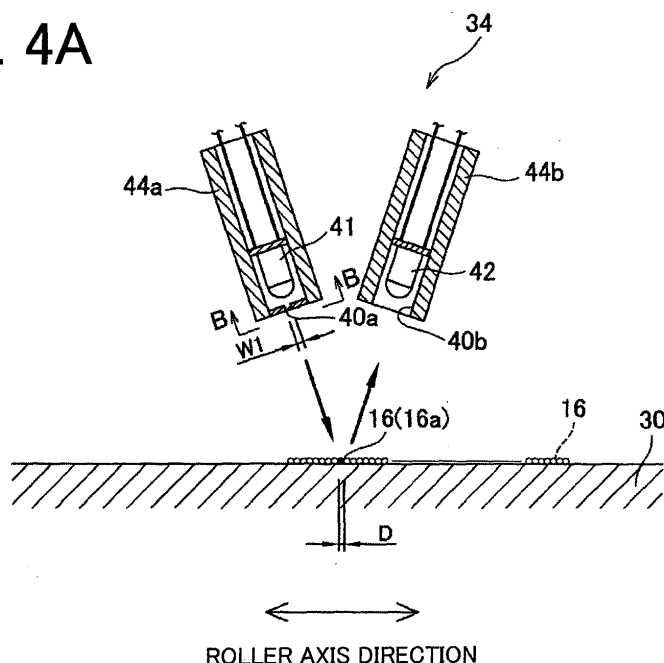
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(54) **Yarn winding machine**

(57) A spinning machine (1) includes a winding device (12) and a slack eliminating device (8). The slack eliminating device (8) includes a slack eliminating roller (30) and a yarn detecting sensor (34). The yarn detecting sensor (34) is a reflective photo sensor having a light

emitting element (41) and a light receiving element (42). An opening provided for the light emitting element (41) has a prescribed width such that a width of an irradiated range on the slack eliminating roller (30) is substantially equal to a thickness of the yarn (16).

FIG. 4A





EUROPEAN SEARCH REPORT

Application Number
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Place of search The Hague		Date of completion of the search 19 June 2012	Examiner Lemmen, René
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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