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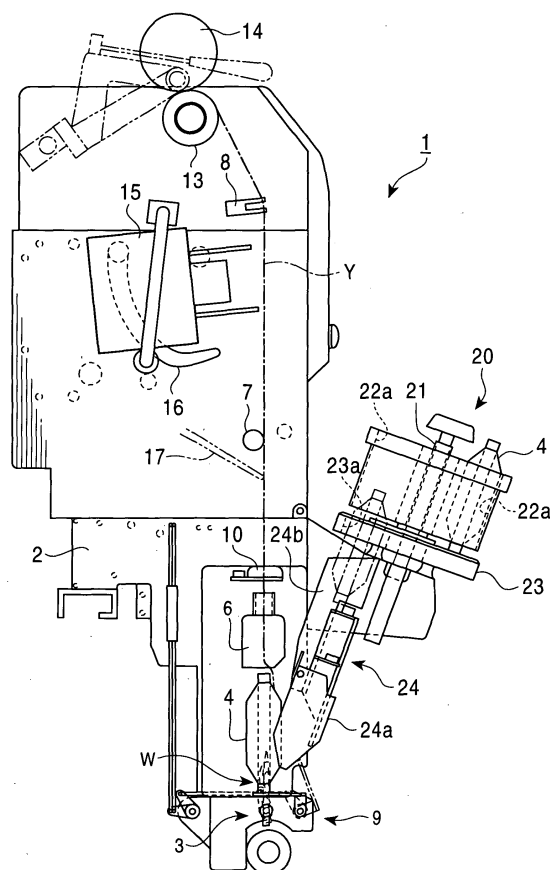
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(54) **Automatic winder**

(57) The present invention improves the shape of a yarn path to reduce the load on a yarn to increase a winding speed, while still preventing the tension breakage of the yarn and an increase in the amount of fluffs. An automatic winder includes a magazine type bobbin housing device 20, a holding device 3 for yarn supplying bobbins 4, and a bobbin chute 24 that guides a bobbin 4 falling from the bobbin housing device 20 to the holding device 3. The holding device 3 is provided with a first pawl 31 and a second pawl 32 which operate as holding means for the bobbins 4 and rotative moving shafts 33 and 34 which rotatively move both pawls 31 and 32. A bottom guide 24b of the bobbin chute 24 is adapted to be pivotable with respect to a main body 24a. Accordingly, when the bobbin chute 24 is closed, a path is formed through which the falling bobbin 4 is guided. Rotatively moved positions of the first pawl 31 include a position at which the first pawl 31 receives the bobbin 4 from the bobbin housing device 20, a position at which the first pawl 31 holds the bobbin during a winding operation, and a position at which the first pawl 31 discharges the bobbin to a side of a frame 2 (Fig. 1).

FIG. 1





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EUROPEAN SEARCH REPORT

Application Number
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Place of search The Hague		Date of completion of the search 28 April 2005	Examiner D'Hulster, E
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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