

Title (en)  
Take-up winder

Title (de)  
Spulmaschine

Title (fr)  
Enrouleur récepteur

Publication  
**EP 2184246 A3 20110330 (EN)**

Application  
**EP 09173899 A 20091023**

Priority  
JP 2008284990 A 20081106

Abstract (en)  
[origin: EP2184246A2] An object of the present invention is to set a bend angle  $\alpha_k$  equal to or smaller than a management upper-limit bend angle  $\alpha_k$  and to reduce the need to install a second godet roller at a higher position without the need to increase the number of guides. A take-up winder 1 includes a spinning section 2, a first godet roller 3 and a second godet roller 4 arranged in order along yarn paths of yarns Y spun by the spinning section 2, a bobbin holder 5 supporting a plurality of take-up bobbins 7 around which the respective yarns Y fed from the second godet roller 4 are wound, and a plurality of traverse support point guides 6 each configured to set a traverse support point for traversing of the corresponding one of the yarns Y fed from the second godet roller 4. The plurality of winding bobbins 7 are coaxially supported by the bobbin holder 5. The axial direction 4j of the second godet roller 4 is set to be orthogonal to the axial direction 7j of the take-up bobbins 7. Each of the yarns Y bent at the respective traverse support point guides 6 by more than the management upper-limit bend angle  $\alpha_k$  is bent by a close guide 9 provided upstream of and close to the corresponding traverse support point guide 6.

IPC 8 full level  
**B65H 51/06** (2006.01); **B65H 54/20** (2006.01); **B65H 54/28** (2006.01); **B65H 57/04** (2006.01); **B65H 57/08** (2006.01); **D01D 10/00** (2006.01); **D01D 13/00** (2006.01)

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Citation (search report)

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