

Title (en)  
**WINDING MACHINE**

Publication  
**EP 0114642 B1 19860528 (DE)**

Application  
**EP 84100433 A 19840117**

Priority  

- DE 3301523 A 19830119
- DE 3302805 A 19830128
- DE 3307915 A 19830305
- DE 3310161 A 19830321

Abstract (en)  
[origin: US4505436A] A yarn winding apparatus is disclosed which is characterized by the ability to wind a plurality of running yarns onto a corresponding number of bobbins mounted on a common support spindle, and wherein the bobbins may be closely spaced apart to thereby permit the required length of the support spindle to be minimized. The apparatus comprises a plurality of side by side traversing assemblies extending along the length of the support spindle, with each traversing assembly comprising a yarn guide bar and a pair of oppositely rotating rotors. The rotors include arms which define two closely adjacent planes of rotation, and the two rotors of each assembly are mounted for rotation about offset axes and so that the arms sweep across the guide bar in opposite directions to define the traverse stroke. The rotors of adjacent traversing assemblies are mounted so that the planes of rotation of the arms of the two rotors are respectively coincident, with the circles defined by the rotating arms in each plane overlapping each other. Also, the corresponding axes of adjacent traversing assemblies are offset in opposite directions.

IPC 1-7  
**B65H 54/28**

IPC 8 full level  
**B65H 54/28** (2006.01)

CPC (source: EP US)  
**B65H 54/2839** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Cited by  
US5505394A; DE3627879A1; US4585181A; EP0194648A3; CN103827007A; DE4304055C1; US5544830A; US5566905A; DE3843202A1; DE3831341A1; US6024320A; EP0795509A1; DE3417457A1; US5964423A; US5967446A; CN1068295C; DE3513796A1; DE102019000711A1; WO9602453A1; WO2013041442A1

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