

Title (en)

WINDING MACHINE WITH FLYER TRAVERSE MOTION YARN

Publication

**EP 0114641 B1 19860528 (DE)**

Application

**EP 84100432 A 19840117**

Priority

- DE 3301523 A 19830119
- DE 3302805 A 19830128
- DE 3302962 A 19830129
- DE 3310620 A 19830324
- DE 3328968 A 19830811

Abstract (en)

[origin: EP0114641A1] 1. A winding machine for yarns (4), wherein the traversing assembly (1, 2, 3) is a flyer traverse motion device comprising : a pair of two-arm flyers (5, 6) mounted on parallel rotational axes and rotating in opposite directions in rotational planes (I, II) lying closely adjacent to each other, a guide bar (9) which is swept across by the yarn trailing edges of the flyers (5, 6), and a guide roll (12) which - viewed in the yarn running direction - is located closely below the lower plane of rotation (II) and which the yarn is partially looped about for being guided onto the bobbin (13), and wherein a plurality of traversing assemblies (1, 2, 3) for winding a corresponding number of yarns (4) is arranged adjacent to each other, the flyers of all of the traversing assemblies (1, 2, 3) are arranged in the two rotational planes (I and II) lying closely adjacent to each other, the circles of rotation of the flyers of adjacent traversing assemblies rotating in adjacent rotational planes overlap each other, the flyers (5 and 6) of adjacent traversing assemblies (1, 2 and 2, 3 resp.) which are arranged in common rotational planes (I and II resp.) from traversing assembly to traversing assembly have the same axial distance A and are driven in the same direction, such winding machine being characterized by the fact that the circles of rotation of the flyers (5 and 6, resp.) of adjacent traversing assemblies (1, 2, 3) which rotate in common rotational planes (I and II, resp.) also overlap each other, with the axial distance A being less than twice the radius and greater than  $2\sqrt{2}$  x radius of the circle of rotation of the flyers (5, 6), and that the flyers (5 and 6, resp.) of adjacent traversing assemblies (1, 2 and 2, 3 resp.) which are arranged in common rotational planes (I and II, resp.) are driven in the same direction and with a phase shift relative to each other.

IPC 1-7

**B65H 54/28**

IPC 8 full level

**B65H 54/28** (2006.01)

CPC (source: EP)

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Cited by

US5566905A; DE3513796A1; EP0161618A1; EP0382104A3; EP0394986A3

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