

Title (en)

Device for winding a thread in random cross winding on a bobbin

Title (de)

Vorrichtung zum Aufwickeln eines Fadens in Wildwicklung auf eine Auflaufspule

Title (fr)

Dispositif pour bobiner un fil en bobinage croisé au hasard sur une bobine

Publication

EP 0837023 B1 20001108 (DE)

Application

EP 97116949 A 19970930

Priority

DE 19642618 A 19961016

Abstract (en)

[origin: EP0837023A2] The winding device winds a thread in alternating angles onto a spool. It has a reversible winding shaft (1) with an endless winding thread (2), and a thread guide providing a breather rise. The shaft has a double rise consisting of a forward rise (3) and a return rise (4). The double rise of the shaft has a set number of threads with mixed turning point and others with a pure turning point. The shaft has several reversals (5) on each side, which are offset from each other. The half winding number for a forward rise and that of the corresponding return rise coincide.

IPC 1-7

B65H 54/38

IPC 8 full level

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CPC (source: EP KR US)

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EP 0837023 A2 19980422; EP 0837023 A3 19990127; EP 0837023 B1 20001108; AT E197443 T1 20001111; DE 19642618 A1 19980423; DE 59702598 D1 20001214; JP H10175775 A 19980630; KR 19980032817 A 19980725; TW 356822 U 19990421; US 5957403 A 19990928

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