

Title (en)
AUTOMATION PLANT FOR THE DOFFING OF COPS AND THE INSERTION OF EMPTY PIRNS AND FOR THE REPLACEMENT OF BOBBINS,
IN SELF-ACTING MULES

Publication
EP 0299934 B1 19920108 (EN)

Application
EP 88830300 A 19880714

Priority
• IT 943787 A 19870717
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Abstract (en)
[origin: EP0299934A1] The plant performs, even in partial temporal superimposition: - a cycle of pirn predisposition for carrying out the doffing of cops (S), comprising: turning the pirns right side out in the same direction; transferring the pirns; positioning the pirns in their rack support; and preloading the pirns; - an automatic cycle for the doffing of cops (S) comprising the steps of: partial running-in of the bench (5), carrying out the fastening of the cop (S) and the underwinding; lowering the cop doffing group (54) with the feeding bench (5) at standstill partially removing the cops from the spindle rod (19) with the breaking off of the yarns (F); lifting the winding faller sickles (22) as far as a position that does not hinder the successive removal of the cops; completing the step of the removal of the cops from the spindles until said cops are overturned onto the unloading belt; positioning the cop doffing group for the insertion of pirns on the spindles; performing the insertion of the pirns; lifting the cop doffing group (54) up to the dead top point; unloading the cops beside the machine, separating the cops from empty pirns and storing them away; - a step for the predisposition of packs (CN) of feeding material (bobbins) with manual positioning of the new roves within clamp means (82); - an automatic cycle of bobbin replacement with: cutting of the rove under work; removal of the exhausted (or partially exhausted) bobbins (C) from the feeding bench (5); possible transfer of the partially exhausted or reeled off bobbins to a loading station; positioning of the feeding bench in the predetermined position for the bobbin replacement and simultaneous winding of the yarn on the cop; stopping of the spindles; transfer of previously predisposed full bobbins (CN) to the work position in contact with the feeding drums (7); transfer of the new rove and superimposition thereof to the one under work, and junction of the roves.

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CN114180395A; EP0467862A1; ITUB20155494A1

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