

Title (en)
STITCHING DEVICE FOR PRINTING MACHINES

Publication
EP 0023985 B1 19840215 (DE)

Application
EP 80104178 A 19800717

Priority
DE 2932757 A 19790813

Abstract (en)
[origin: EP0023985A1] 1. Wire stitching device for printing machines having a rotating stitching cylinder (136), on to which a cut-to-size piece of wire (1) is transferred, and formed to the shape of a staple by means of female dies (98) and male dies (89) movable relative to each other on the stitching cylinder, and inserted into the product to be stitched, the male die (89) being designed as a cam for the piece of wire to be transferred, characterised in that there is provided as a female die in the stitching cylinder (136) a female die part (98), which is flexibly pretensioned radially outwardly into the transfer position, and into which the male die (89) can be moved from its locked position for the wire (1) to form the staple, this movement of the male die being effected in a plane at right angles to the axis of the stitching cylinder by means of an open four bar mechanism having four hinge axes (83, 84, 87, 88) one of whose ends, formed by the end of a first guide arm (85), is secured to a control spindle (83), which is rotatable via connecting members (93 to 97) by a cam roller (92) sensing a control curve (91) and rotating with the stitching cylinder (136), and whose other end, formed by the end of a second guide arm (86), is in hinged connection (at 84) to a height-adjustable abutment part (107) receiving the back of the staple, when the male die (89) moves down into the female die (98), which (107) in its inserted position forms the base of the female die, which is fixed in the stitching cylinder, the free ends of the first and second guide arms (85 and 86) being in hinged connection (at 87 and 88) via a middle, third guide arm (89'), which also carries the male die (89) and, in the final phase of movement of the male die into the interior of the female die, takes the female die (98) against its prestress into the interior of the stitching cylinder with the aid of a cam (109, 110), so that the limbs of the staple are gradually released from the female die (98) as the male die (89) pivots away laterally, and thus penetrate the product to be stitched (112).

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IPC 8 full level
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CPC (source: EP)
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Cited by
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