

Title (en)  
METHOD AND DEVICE FOR FORMING A COTTON WOOL WINDING

Publication  
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Application  
**EP 84111524 A 19840927**

Priority  
CH 556183 A 19831012

Abstract (en)  
[origin: US4565337A] A winding apparatus for forming laps has two winding rollers and on each side thereof a carrier arm for receiving a lap bobbin. Each carrier arm is pivotably connected on one end with a sliding guide and on the other end with a pivoting mechanism. A hinge joint and a pivot pin provide these pivotal connections. The pivot mechanism is pivotally supported in side walls of the apparatus by shafts. The pivotal movement is accomplished by a pressure air cylinder. During pivoting of the pivoting mechanism about the shafts the carrier arms are shifted in a predetermined direction. In FIG. 1, the lowermost position of the therein depicted carrier arm is shown in which the lap bobbin rests on the winding rollers. Through rotation of the winding rollers the lap bobbin rotated and takes up a web delivered from calender rollers for the formation of a lap. The build-up of the lap causes lifting of the carrier arms in such predetermined direction. To produce a predetermined contact pressure between the lap and the winding rollers, a pressure controlled by a pressure reducing valve is built-up in the pressure air cylinder. To controllably reduce this air pressure in the pressure air cylinder the pressure reducing valve is controlled by a control rule. This control rule is connected with the sliding guide and simultaneously moves with and in the same direction as the carrier arms. Through the control of the air pressure by the control rule the advantage is obtained that the contact force between the lap and winding rollers is controllable such that the contact pressure can be held substantially constant during building-up of the lap.

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**D01G 27/02** (2013.01 - EP US)

Citation (search report)  
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