

Title (en)

METHOD AND APPARATUS FOR MAKING A GIVEN NUMBER OF FULL CROSS-WOUND BOBBINS ON A CROSS WINDING MACHINE

Publication

EP 0569772 A3 19940615 (DE)

Application

EP 93106780 A 19930427

Priority

DE 4216097 A 19920515

Abstract (en)

[origin: EP0569772A2] The object of the invention is to propose such a method and an apparatus for carrying it out, as a result of which a simplified control of a batch end, with the aim of as many full cross-wound bobbins as possible, is possible. This object is achieved, according to the invention, in that the predeterminable number of full cross-wound bobbins is divided by the number of winding stations of the machine producing cross-wound bobbins. In the event of a non-integral quotient, the latter is rounded up and down to integral values with an upper and a lower limit value, the sum of all the rounded-up and rounded-down values being equal to the predeterminable number. Such a value is predetermined to each winding station. The winding stations are put out of operation after the values have been reached. The machine producing cross-wound bobbins possesses storage locations for storing the acquired number of finished cross-wound bobbins per winding station. An input device for the input of desired values of the number of cross-wound bobbins of individual winding stations is coupled to a circuit for putting the winding stations out of operation when the desired value is reached. A cross-winding machine advantageously possesses a closed transport system for trolleys which carry the cops and tubes. <IMAGE>

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Citation (search report)

- [DA] DE 3733788 A1 19880414 - MURATA MACHINERY LTD [JP]
- [DA] DE 3843554 A1 19900628 - SCHLAFHORST & CO W [DE]
- [A] DE 3808465 A1 19880929 - MURATA MACHINERY LTD [JP]
- [A] US 3922642 A 19751125 - TOOKA TAKUZO

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