

Title (en)

Process for controlling the rotation drive of a thread collection system

Title (de)

Verfahren zur Steuerung der Schwenkbewegung von dem Spindelträger einer Fadenaufwickelvorrichtung

Title (fr)

Procédé pour la commande de l'entraînement en rotation de la tourelle d'un dispositif enrouleur de fil

Publication

EP 1118569 A3 20011114 (EN)

Application

EP 00204586 A 20001218

Priority

IT MI992618 A 19991217

Abstract (en)

[origin: EP1118569A2] Process for controlling the rotation drive of a continuous filament thread-collection system, containing a rotating drum, on which at least one rotating bobbin-holder chuck is assembled, a traversing device and a picking roll, arranged according to the thread direction, upstream of the drum, where the picking roll is kept in constant contact with the outside surface of the bobbin, which increases in diameter during the collecting phase, by means of the drum rotation drive, characterized in that: the calculation of the diameter (D) of the bobbin is obtained by the following formula: $D = V_{\text{collection}} / \pi V_{\text{chuck}} K$ wherein $V_{\text{collection}}$ is the collection velocity of the picking roll, established by the operator, V_{chuck} is the chuck rotation velocity determined by the control drive signal of the asynchronous chuck motor, K is a constant experimental coefficient, which can have a value higher than 0.6 and less than 1; the determination of the angular position (α) of the drum is obtained by means of the calculated bobbin diameter (D) so that the rotation drive control of the collection system can be transmitted to bring the drum to the established angular position (α). <IMAGE>

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CPC (source: EP)

B65H 54/52 (2013.01); **B65H 67/048** (2013.01); **B65H 2557/24** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [DAX] WO 9601222 A1 19960118 - NEUMAG GMBH [DE], et al
- [A] WO 9842607 A1 19981001 - BARMAG BARMER MASCHF [DE], et al
- [DA] EP 0768271 A2 19970416 - SAHM GEORG FA [DE]
- [A] DE 4423205 A1 19950202 - BARMAG BARMER MASCHF [DE]

Cited by

EP1338544A3; WO2024012929A1

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EP 1118569 A2 20010725; **EP 1118569 A3 20011114**; **EP 1118569 B1 20040506**; AT E265981 T1 20040515; DE 60010422 D1 20040609; IT 1313958 B1 20020926; IT MI992618 A0 19991217; IT MI992618 A1 20010617

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