

Title (en)

Device for the control and stopping of automatic sewing machines, in particular multi-needle embroidering machines.

Title (de)

Steuer- und Abstellvorrichtung für automatische Nähmaschinen, besonders Mehrnadelstrickmaschinen.

Title (fr)

Dispositif de contrôle et d'arrêt de machines automatiques à coudre, en particulier brodeuses à plusieurs aiguilles.

Publication

EP 0179742 A1 19860430 (EN)

Application

EP 85830159 A 19850625

Priority

IT 2324084 A 19841019

Abstract (en)

Device for the control and stopping of a sewing machine, comprising at least one pulley (15) driven into rotation by one of the sewing threads (controlled thread) and a disc (20) connected to said pulley. A plurality of reference elements (21) on the disc and an external sensor (24) make possible accurate measurement of the pulley's rotating speed, which is proportional to the consumption of the thread under control. Said speed is compared by an electronic circuit (26) with two extreme selectable preset values to stop operation of the machine when the speed deviates from preset limits. In this way, a total control is obtained over all the sewing anomalies such as: breakage of the top needle thread, breakage of the crochet or shuttle bottom thread, skipping of stitches, anomalous tension of the threads.

IPC 1-7

D05B 51/00

IPC 8 full level

D05B 51/00 (2006.01); **D05C 11/14** (2006.01)

CPC (source: EP)

D05B 51/00 (2013.01); **D05C 11/14** (2013.01)

Citation (search report)

- [X] US 3843883 A 19741022 - DE VITA R, et al
- [X] FR 2041627 A5 19710129 - WITTENBERGE NAEHMASCH VEB
- [X] US 4196685 A 19800408 - TAMURA KAZUYOSHI [JP]

Cited by

EP1208483A4; FR2618167A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

EP 0179742 A1 19860430; IT 1175873 B 19870715; IT 8423240 A0 19841019; IT 8423240 A1 19860419

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