

Title (en)

Method to stop an electric motor and circuit to break it

Title (de)

Verfahren zum Stillsetzen eines elektrischen Antriebsmotors und Bremsschaltung

Title (fr)

Méthode pour arrêter un moteur électrique et circuit pour le freiner

Publication

EP 0979793 A3 20000329 (DE)

Application

EP 99110202 A 19990526

Priority

DE 19836701 A 19980813

Abstract (en)

[origin: EP0979793A2] At a bobbin winding station, to stop the electric drive motor (13) for the grooved drum (10) to give the reciprocating yarn guide movement, the motor is fed with a braking current in the opposite direction to the nominal current supply. The generated heat loading on the motor (13) is measured, and the strength of the braking current is varied (14) according to the motor (13) heat. The actual heat loading on the motor is measured by the current loading of the motor over the time. Stepped values for the braking current are used, each for a thermal loading range. An Independent claim is included for a motor braking circuit with a monitor to register the actual motor (13) heat. A unit (14) selects the braking current to be used for a braking action, according to the measured motor heat level. Preferred Features: The braking current control (14) has stored data for current values related to heat levels, and a system to select the required braking current according to the measured motor heat. The motor heat levels are stored in the database in stepped value, where each heat range is associated with a braking current strength.

IPC 1-7

B65H 63/00

IPC 8 full level

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CPC (source: EP US)

B65H 54/74 (2013.01 - EP US); **B65H 63/036** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US); **Y10S 388/934** (2013.01 - EP US)

Citation (search report)

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- [A] US 5512883 A 19960430 - LANE JR WILLIAM E [US]
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Designated contracting state (EPC)

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EP 0979793 A2 20000216; **EP 0979793 A3 20000329**; **EP 0979793 B1 20030326**; DE 19836701 A1 20000217; DE 59904698 D1 20030430; JP 2000060170 A 20000225; JP 4404409 B2 20100127; TR 199901947 A2 20000321; TR 199901947 A3 20000321; US 6232732 B1 20010515

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