

Title (en)
Sewing machine

Title (de)
Nähmaschine

Title (fr)
Machine à coudre

Publication
EP 1460160 B1 20101006 (DE)

Application
EP 04005374 A 20040306

Priority
DE 10312602 A 20030321

Abstract (en)
[origin: EP1460160A1] An industrial sewing machine has a thread tensioning assembly that can be operated either in control mode or regulator mode as required by the operator. The sewing machine (1) has a thread tensioning assembly (32) operated by an electromagnet (34). The electric current running through the electromagnet coil (33) varies in accordance with the rotational speed of the armature shaft, in accordance with a predetermined graph curve of thread tension plotted against rotation. The change in current prevents the formation of a knot formed by the upper and lower threads between the two work pieces. Selection of regulation mode or control mode is made by the operator via a suitable selector switch (50). The push button selector switch is linked to a microprocessor with a memory device and mode indicator (51) that further indicates thread tension.

IPC 8 full level
D05B 19/00 (2006.01); **D05B 47/00** (2006.01); **D05B 47/04** (2006.01); **D05B 47/06** (2006.01); **D05B 51/00** (2006.01)

CPC (source: EP KR)
D05B 19/00 (2013.01 - KR); **D05B 47/04** (2013.01 - EP); **D05B 47/06** (2013.01 - EP); **D05B 51/00** (2013.01 - EP)

Cited by
CN107354610A; EP2944716A1; EP2599910A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
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