

Title (en)
TORCHON LACE MACHINE

Title (de)
SPITZENKLÖPPELMASCHINE

Title (fr)
MÉTIER À DENTELLE TORCHON

Publication
EP 2657384 A4 20140618 (EN)

Application
EP 11850799 A 20111110

Priority
• JP 2010286776 A 20101222
• JP 2011006280 W 20111110

Abstract (en)
[origin: EP2657384A1] A torchon lace machine capable of immediately taking treatments such as stopping the torchon lace machine, preventing a damage of rotor metals, reducing damages of various kinds of components transmitting rotation to the rotor metals, preventing a pattern disorder, when rotation errors occur at a spindle due to a collision of adjacent rotor metals caused by a timing disorder, getting caught of a working wear of an operator, getting caught of broken threads to the spindle, is provided. In the torchon lace machine according to the present invention, a transmission gear 6 transmitting a drive force from a motor drive part to a horizontal shaft 4 driving rotor metals 3 rotatably fitted to vertical shafts 2 in a horizontal direction is provided, in which the vertical shafts 2 are annularly disposed at a base 1 with a predetermined interval, an axial core part of the transmission gear is divided into a horizontal shaft transmission side and a motor drive part transmission side, a cam is formed at the divisional surface to make the motor drive part side move upward against a spring pressure for a load from the horizontal shaft side, and to be integrated for a load from the motor drive part side, and a sensor monitoring the moving upward of the transmission gear is provided.

IPC 8 full level
D04C 3/38 (2006.01); **D04C 3/48** (2006.01)

CPC (source: EP KR)
D04C 3/38 (2013.01 - EP KR); **D04C 3/48** (2013.01 - EP)

Citation (search report)
• [A] DE 2729936 B1 19780518 - KRENZLER FA EMIL
• See references of WO 2012086117A1

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