

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  
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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  
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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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US10555581B2; US11103028B2; WO2018222705A1; US11457685B2; WO2016191474A1; US9920462B2; US10060057B2; US10238176B2; EP4079951A1; US10280538B2; US10863794B2; US10870933B2; US11339513B2; WO2018222893A1; US10743618B2; EP4008821A1; WO2018222878A1; WO2018222703A1; WO2018222885A1; US11051573B2; WO2019099816A1; US10674791B2; EP4085780A1; WO2018222888A1; WO2018222881A1; US10806210B2; US11202483B2; EP4050142A1; US9839253B2; WO2018222721A1; US10299544B2; WO2019236945A1; EP3987969A1; US11547171B2; US11877617B2

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