

Title (en)

Sensor for the working distance of card clothings or for adjustment of this distance

Title (de)

Sensor für den Kardierspalt beziehungsweise Nachstellen des Kardierspaltes

Title (fr)

Capteur pour la distance de travail de garnitures de cardage ou pour ajuster ladite distance

Publication

EP 1158078 A3 20020116 (DE)

Application

EP 01118063 A 19970326

Priority

- CH 93496 A 19960412
- CH 93596 A 19960412
- EP 97810179 A 19970326

Abstract (en)

[origin: EP0801158A1] The carding machine has at least one sensor to monitor the effective working gap of at least one card clothing. The gap is scanned from the side of the working width. The sensor generates a beam from a mounting at one side of the working width, aligned through the card working zone. Also claimed is an assembly, and an adjustment system to set the gap between a card clothing and a facing component (13), where the mantle surface (T') of the clothing is taken as the reference surface. The gap (KA) between the component (13) and the surface (T') is monitored without contact. The position of the component (13) in relation to the clothing is altered by an actuator (50) if necessary, to correct any deviation from a nominal value for the gap (KA).

IPC 1-7

D01G 15/28

IPC 8 full level

B01F 3/04 (2006.01); **B01F 5/04** (2006.01); **B01F 5/06** (2006.01); **D01G 15/28** (2006.01)

CPC (source: EP US)

B01F 23/23211 (2022.01 - EP US); **B01F 23/23762** (2022.01 - EP); **B01F 25/3131** (2022.01 - EP US); **D01G 15/28** (2013.01 - EP US); **B01F 23/23762** (2022.01 - US); **B01F 25/43172** (2022.01 - EP US)

Citation (search report)

- [E] US 5894636 A 19990420 - SAUTER CHRISTIAN [CH], et al
- [AD] EP 0627508 A1 19941207 - RIETER AG MASCHF [CH]
- [AD] DE 4235610 A1 19940428 - TRUETZSCHLER GMBH & CO KG [DE]
- [AD] DE 4115960 A1 19921119 - SPINNBAU GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 575 (C - 667) 19 December 1989 (1989-12-19)

Cited by

DE102007011370B4; GB2431413A; GB2431413B; DE102007011370A1; GB2350126B; EP3751027A1; CH716308A1; WO2011150527A3; US7908714B2

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DOCDB simple family (publication)

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DOCDB simple family (application)

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