

Title (en)
Carding machine respectively woolen carding machine

Title (de)
Karde bzw. Krempel

Title (fr)
Machine de cardage respectivement machine de cardage dite laine

Publication
EP 0989213 B2 20060329 (DE)

Application
EP 99810792 A 19990902

Priority
• CH 181198 A 19980904
• CH 193598 A 19980923

Abstract (en)
[origin: EP0989213A1] The carding machine has at least two licker-in units (102,104,106) in succession. The licker-in roller which works together with the drum (100) has a larger diameter than the preceding licker-in roller. With three licker-in units, the first two rollers have the same diameter. The licker-in roller at the drum has a diameter of 240-280 mm, and the first two licker-in rollers have a diameter of 150-200 mm. The rotary axes (A1-A3) of the licker-in rollers are on a common horizontal plane (E), or the licker-in roller at the drum is at a higher level than the preceding licker-in rollers. With a card working width of ≥ 1000 mm, the drives for the working units are contained between the vertical sides. The drive transmission belts and cogwheels pass between the drives and the shrouding. The transmissions are divided over a number of drive planes. The carding machine has an entry and/or exit module, on a swing mounting to move between a working position at the drum and a position clear of the drum. The machine has at least one roller module, with the module guide incorporated into the card, for the module to move in and out of the ready position to take up the working position. The drum has a diameter of 700-1000 mm, across its working width. The fiber feed to the carding machine is a shaft with a fiber cleaning system. The lower carding zone forms an enclosed angle at the rotary axis of ≤ 90 degrees and preferably ≤ 80 degrees. The ratio of the drum diameter to the diameter of the doffer is preferably ≤ 1.5 .

IPC 8 full level
D01G 15/20 (2006.01); **D01G 31/00** (2006.01)

CPC (source: EP)
D01G 15/20 (2013.01); **D01G 31/006** (2013.01)

Citation (opposition)
Opponent :
• EP 0167722 A1 19860115 - KLEINWEFERS RAMISCH GMBH [DE]
• DE 2934562 A1 19810312 - HOLLINGSWORTH GMBH
• EP 0497745 A1 19920805 - GIULIANI MARCELLO [IT]
• DE 2252081 A1 19740502 - HERGETH KG MASCH APPARATE
• EP 0431483 A1 19910612 - RIETER AG MASCHF [CH]
• EP 0446796 A1 19910918 - RIETER AG MASCHF [CH]
• DE 4331284 A1 19940324 - TRUETZSCHLER GMBH & CO KG [DE]
• EP 0810309 A1 19971203 - RIETER AG MASCHF [CH]
• Hill, Brian "Carding a new Look", Textile Horizons, p 28,29, April 1984

Cited by
CN109280999A; CH714108A1; CN114875526A; EP1207223A1; CN1313660C; CN107217338A; CN108103620A; EP3162927A1; CH711685A1; US6571428B2

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