

Title (en)
Ultra-high efficient carding machine.

Title (de)
Ultra-Hochleistungskarde.

Title (fr)
Machine de cardage à rendement élevé.

Publication
EP 0446796 A1 19910918 (DE)

Application
EP 91103553 A 19910308

Priority
CH 87790 A 19900316

Abstract (en)
[origin: JPH0422232A] PURPOSE: To reduce a required space and improve the surface utilization degree and treatment precision of the carding work by setting the carding work width of a flat card for staple fibers. CONSTITUTION: In a flat card for staple fibers having a fiber length of about 60 mm or less, the working width of a fillet wound on the outer periphery of a main cylinder for determining a carding work width is set to ≥ 800 mm, preferably 400-600 mm. The diameter of the main cylinder is further set to 400-600 mm. The diameters of a licker-in and a doffer are set to 90-115 mm and 200-300 mm, respectively, and the working widths of the licker-in and the doffer are equalized to the above working widths, respectively. Such the reduction of the working widths in comparison with conventional ones reduces the deflections of working parts in the direction rectangular to the direction of the carding work, and improves the precision of the carding works.

Abstract (de)
Die Arbeitsbreite (13) einer Karde für die Kurzstapelkarderie wird reduziert. Dadurch wird die Präzision der Arbeitselemente (50, 52) und der Gesamtanordnung erhöht. Die Produktivität der Maschine wird dadurch gesteigert. <IMAGE>

IPC 1-7
D01G 15/02; **D01G 15/16**; **D01G 15/32**

IPC 8 full level
D01G 15/08 (2006.01); **D01G 15/02** (2006.01); **D01G 15/16** (2006.01); **D01G 15/32** (2006.01)

CPC (source: EP US)
D01G 15/02 (2013.01 - EP US); **D01G 15/16** (2013.01 - EP US); **D01G 15/32** (2013.01 - EP US)

Citation (search report)

- [X] CH 549649 A 19740531 - BROWN ROGER STANLEY
- [X] CH 550866 A 19740628 - BROWN ROGER STANLEY
- [A] EP 0214438 A2 19870318 - SCHUBERT & SALZER MASCHINEN [DE]
- [A] FR 2398126 A1 19790216 - TRUETZSCHLER & CO [DE]
- [A] FR 1459952 A 19660617
- [A] FR 1243034 A 19601007 - MAK MASCHINENBAU KIEL AG

Cited by
EP0866153A1; US5894636A; US5625924A; DE102004035771A1; US6219885B1; WO9402670A1; US7694393B2; EP0989213B2; EP1078116B2; EP1009870B2

Designated contracting state (EPC)
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