

Title (en)
Grinding for clothing

Title (de)
Schleifen von Garnituren

Title (fr)
Meulage de garnitures

Publication
EP 1329288 A2 20030723 (DE)

Application
EP 03004596 A 19980923

Priority

- CH 230297 A 19971001
- EP 98941653 A 19980923

Abstract (en)
Apparatus for grinding and sharpening card clothing has elements, with an elastic pliability, which pass over the clothing points for grinding and sharpening them. The grinding elements are supported at the end sides of the clothing sections. Dust and particles generated by the grinding action are extracted by suction (23), over the whole clothing (14) width, which generates an air stream (L) through and at the grinding point. The apparatus is mounted to the card frame, to grind and sharpen the card clothing. It has a number of grinders, which penetrate between the clothing points, and has a control to give it an intermittent action. The control sets a grinding cycle so that each revolving flat is sharpened a number of times, preferably 1-5 times. The grinder can be at a mobile maintenance unit, which is taken to each carding machine as required. A lifting mechanism moves the clothing carrier (13) towards the grinder unit (42). The clothing carrier (13) is a revolving flat, and is lifted towards the grinder (42) by a path surface (31,32) which deflects the flat movement. The path deflection can be adjusted and varied. A limit surface (70) sets an adjustable penetration depth of the clothing (14) at the grinder (42).

Abstract (de)
Ein Schärf- oder Schleifgerät (59) und ein Verfahren für das Schleifen der Garnituren (14) von Kardendeckel mit einer Vielzahl von einzelnen Schleifelementen (42) wobei ein Hubvorrichtung (28) vorgesehen ist um die Deckel den Schleifelementen (42) zu zustellen. <IMAGE>

IPC 1-7
B24B 19/18; **D01G 15/84**; **B24B 55/06**; **B24B 49/00**; **B24B 47/22**

IPC 8 full level
B24B 19/18 (2006.01); **B24B 47/22** (2006.01); **B24B 49/00** (2012.01); **B24B 55/06** (2006.01); **D01G 15/84** (2006.01)

CPC (source: EP US)
B24B 19/18 (2013.01 - EP US); **B24B 47/22** (2013.01 - EP US); **B24B 49/00** (2013.01 - EP US); **B24B 55/06** (2013.01 - EP US); **D01G 15/84** (2013.01 - EP US)

Cited by
CN110072667A; EP3546123A4; US11577354B2; WO2009036584A1

Designated contracting state (EPC)
CH DE GB IT LI

DOCDB simple family (publication)
WO 9916579 A1 19990408; DE 59810482 D1 20040129; DE 59812916 D1 20050811; EP 1019218 A1 20000719; EP 1019218 B1 20031217; EP 1329288 A2 20030723; EP 1329288 A3 20030730; EP 1329288 B1 20050706; TR 200000838 T2 20010921; TR 200200055 T2 20020621; US 6431969 B1 20020813

DOCDB simple family (application)
IB 9801471 W 19980923; DE 59810482 T 19980923; DE 59812916 T 19980923; EP 03004596 A 19980923; EP 98941653 A 19980923; TR 200000838 T 19980923; TR 200200055 T 19980923; US 50975600 A 20000519