

Title (en)
Buttonhole sewing machine

Title (de)
Knopfloch-Nähmaschine

Title (fr)
Machine à coudre les boutonsnières

Publication
EP 1371770 B1 20070711 (DE)

Application
EP 03010637 A 20030513

Priority
DE 10225512 A 20020610

Abstract (en)
[origin: US2003226486A1] A buttonhole sewing machine comprises a buttonhole cutting device which includes a knife and at least one cutting block that cooperates with the knife. Provision is made for a cutting drive for motion of the knife and the cutting block relative to each other by variable cutting force, the cutting drive comprising several linear drives which are connected in parallel and pneumatically actuated selectively.

IPC 8 full level
D05B 3/06 (2006.01); **D05B 37/02** (2006.01); **B26D 5/12** (2006.01); **D05B 3/08** (2006.01); **D05B 37/04** (2006.01); **F15B 11/036** (2006.01); **F15B 15/14** (2006.01)

CPC (source: EP US)
B26D 5/12 (2013.01 - EP US); **D05B 3/06** (2013.01 - EP US); **D05B 37/04** (2013.01 - EP US); **F15B 11/036** (2013.01 - EP US); **F15B 15/1404** (2013.01 - EP US); **D05D 2207/02** (2013.01 - EP US); **F15B 2211/30525** (2013.01 - EP US); **F15B 2211/30565** (2013.01 - EP US); **F15B 2211/327** (2013.01 - EP US); **F15B 2211/50554** (2013.01 - EP US); **F15B 2211/5151** (2013.01 - EP US); **F15B 2211/526** (2013.01 - EP US); **F15B 2211/7053** (2013.01 - EP US); **F15B 2211/7055** (2013.01 - EP US); **F15B 2211/7107** (2013.01 - EP US); **Y10T 83/18** (2015.04 - EP US)

Cited by
EP1580309A3; EP1580309A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2003226486 A1 20031211; **US 6684798 B2 20040203**; AT E366836 T1 20070815; CN 1468998 A 20040121; DE 10225512 C1 20030717; DE 50307639 D1 20070823; EP 1371770 A2 20031217; EP 1371770 A3 20060315; EP 1371770 B1 20070711; JP 2004008804 A 20040115; JP 4528498 B2 20100818

DOCDB simple family (application)
US 44634903 A 20030528; AT 03010637 T 20030513; CN 03141304 A 20030609; DE 10225512 A 20020610; DE 50307639 T 20030513; EP 03010637 A 20030513; JP 2003165010 A 20030610