

Title (en)
Buttonhole sewing machine

Title (de)
Knopfloch-Nähmaschine

Title (fr)
Machine à coudre les boutonsnières

Publication
EP 1371769 A3 20060315 (DE)

Application
EP 03010636 A 20030513

Priority
DE 10225511 A 20020610

Abstract (en)
[origin: US2003226485A1] A buttonhole sewing machine comprises a buttonhole cutting device which includes a knife and a cutting block unit with several cutting blocks, one of which at a time being movable into a position of cooperation with the knife. The cutting blocks are mounted on an anvil that is stationarily joined to the sewing machine. The knife is movable from above against the anvil.

IPC 8 full level
D05B 3/06 (2006.01); **D05B 37/02** (2006.01); **D05B 3/08** (2006.01); **D05B 37/04** (2006.01)

CPC (source: EP US)
D05B 3/06 (2013.01 - EP US); **D05B 37/04** (2013.01 - EP US); **D05D 2203/00** (2013.01 - EP US); **D05D 2207/02** (2013.01 - EP US)

Citation (search report)

- [A] DE 291197 C
- [A] DE 19716629 C1 19980820 - DUERKOPP ADLER AG [DE]
- [DA] DE 19916660 C1 20000621 - DUERKOPP ADLER AG [DE]
- [A] DE 3930562 C1 19910131
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04 30 April 1996 (1996-04-30)

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 2003226485 A1 20031211; **US 6694901 B2 20040224**; AT E358201 T1 20070415; CN 100476053 C 20090408; CN 1468997 A 20040121; DE 10225511 C1 20030618; DE 50306889 D1 20070510; EP 1371769 A2 20031217; EP 1371769 A3 20060315; EP 1371769 B1 20070328; JP 2004008803 A 20040115

DOCDB simple family (application)
US 44634803 A 20030528; AT 03010636 T 20030513; CN 03141305 A 20030609; DE 10225511 A 20020610; DE 50306889 T 20030513; EP 03010636 A 20030513; JP 2003165009 A 20030610