

Title (en)  
BUTTON HOLE SEWING MACHINE

Title (de)  
KNOPFLOCH-NÄHMASCHINE

Title (fr)  
MACHINE A BOUTONNIERES

Publication  
**EP 1604056 A1 20051214 (DE)**

Application  
**EP 03785941 A 20031224**

Priority  

- EP 0314899 W 20031224
- DE 20301847 U 20030206

Abstract (en)  
[origin: WO2004070101A1] The invention relates to a button hole sewing machine comprising a base plate (2), an upper arm (1) and a stand (3) which connects the arm (1) to the base plate (2). Said machine also comprises a needle (6) which can be displaced back and forth and a clasp for the items to be sewn (9b), which can be displaced in direction-y, in addition to a button hole cutting device (13), comprising a cutter (36) which is arranged on the base plate (2) and which is provided with a linear cutting part (37) extending in the direction-y, and an eye cutting part (38) arranged on one end. Said machine also comprises a cutting block (15) which co-operates with the cutter (36) and a cutting drive (16) for displacing the cutting block (15) in a vertical direction-z counter to the cutter (36). The cutter (36) and the cutting block (15) can be adjusted in a parallel manner in relation to each other.

IPC 1-7  
**D05B 37/00; D05B 37/04; D05B 37/06; D05B 37/02**

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

CPC (source: EP KR)  
**D05B 3/06** (2013.01 - EP KR); **D05B 37/00** (2013.01 - KR); **D05B 37/02** (2013.01 - EP KR); **D05B 37/04** (2013.01 - KR)

Citation (search report)  
See references of WO 2004070101A1

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)  
**WO 2004070101 A1 20040819**; AT E415511 T1 20081215; AU 2003294957 A1 20040830; CN 100540780 C 20090916;  
CN 1692193 A 20051102; DE 20301847 U1 20040609; DE 50310841 D1 20090108; EP 1604056 A1 20051214; EP 1604056 B1 20081126;  
ES 2315555 T3 20090401; JP 2006513756 A 20060427; JP 4221377 B2 20090212; KR 101086955 B1 20111129; KR 20050092089 A 20050920;  
PT 1604056 E 20090123; SI 1604056 T1 20090430

DOCDB simple family (application)  
**EP 0314899 W 20031224**; AT 03785941 T 20031224; AU 2003294957 A 20031224; CN 200380100201 A 20031224; DE 20301847 U 20030206;  
DE 50310841 T 20031224; EP 03785941 A 20031224; ES 03785941 T 20031224; JP 2004567770 A 20031224; KR 20047010342 A 20031224;  
PT 03785941 T 20031224; SI 200331511 T 20031224