

Title (en)
Eyelet buttonholing sewing machine

Title (de)
Augen-Knopfloch-Nähmaschine

Title (fr)
Machine à coudre les boutonsnières avec oeillet

Publication
EP 1559823 B1 20070919 (DE)

Application
EP 05000759 A 20050115

Priority
• DE 102004004752 A 20040130
• DE 102004021924 A 20040504

Abstract (en)
[origin: EP1559823A2] A buttonhole sewing machine has an x/y sewing surface (9) with a variable-position X-plane fabric work piece clamp (11) shifted by a pneumatic piston and cylinder unit linked by a push-fit detachable connector (32) to a compressed air line (28). The compressed air line connector has freedom of movement in the x and y planes. The connector (32) has a conical cross section (36) and is co-located with the clamp drive (20).

IPC 8 full level
D05B 3/08 (2006.01); **D05B 29/12** (2006.01); **D05B 3/06** (2006.01); **D05B 19/12** (2006.01); **D05B 29/00** (2006.01)

CPC (source: EP KR)
B65F 1/0053 (2013.01 - KR); **B65F 1/1426** (2013.01 - KR); **B65F 1/1473** (2013.01 - KR); **B65F 1/1615** (2013.01 - KR);
B65F 1/1646 (2013.01 - KR); **D05B 3/08** (2013.01 - EP); **B65F 2210/138** (2013.01 - KR); **D05D 2207/02** (2013.01 - EP)

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

DOCDB simple family (publication)
EP 1559823 A2 20050803; **EP 1559823 A3 20060913**; **EP 1559823 B1 20070919**; AT E373735 T1 20071015; CN 1648314 A 20050803;
CN 1648314 B 20110302; DE 502005001501 D1 20071031; JP 2005211657 A 20050811; KR 20050077748 A 20050803

DOCDB simple family (application)
EP 05000759 A 20050115; AT 05000759 T 20050115; CN 200510005169 A 20050128; DE 502005001501 T 20050115;
JP 2005018513 A 20050126; KR 20050006953 A 20050126