

Title (en)
SEWING MACHINE

Title (de)
NÄHMASCHINE

Title (fr)
MACHINE A COUDRE

Publication
EP 1620592 B1 20080716 (DE)

Application
EP 04730816 A 20040503

Priority
• CH 2004000267 W 20040503
• CH 7822003 A 20030505

Abstract (en)
[origin: WO2004099481A1] The invention relates to a sewing machine comprising two needles (8, 9) that are at an angle (α) to the vertical axis (Y) of the warp protector (C). Once the warp protector has pierced the item to be sewn with the tip thereof, said needles pierce through vertical slits (27) in the warp protector (C). The two needles (8, 9) are driven in the direction of the respective axis thereof, i.e. in the direction of the axes (V1,V2).

IPC 8 full level
D05C 7/04 (2006.01); **D05B 37/02** (2006.01)

CPC (source: EP US)
D05B 37/02 (2013.01 - EP US); **D05C 7/04** (2013.01 - EP US)

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004099481 A1 20041118; AT E401444 T1 20080815; DE 502004007615 D1 20080828; EP 1620592 A1 20060201;
EP 1620592 B1 20080716; US 2006278144 A1 20061214; US 7353761 B2 20080408

DOCDB simple family (application)
CH 2004000267 W 20040503; AT 04730816 T 20040503; DE 502004007615 T 20040503; EP 04730816 A 20040503; US 55464605 A 20051027