

Title (en)  
SEWING MACHINE

Title (de)  
NÄHMASCHINE

Title (fr)  
MACHINE A COUDRE

Publication  
**EP 1576224 B1 20060920 (DE)**

Application  
**EP 03785896 A 20031219**

Priority  
• DE 10261339 A 20021228  
• EP 0314626 W 20031219

Abstract (en)  
[origin: DE10261339C1] The sewing machine has a looper (8) which is powered to rotate around a vertical axis, incorporating a bobbin capsule (21) with lifter cams (31). A capsule lifter (33) has a lifter lever (32) to make contact with the cams, and a feeler lever (40). The feeler lever lies against a cam disk surface (42) of an axial cam disk (39), fitted to a transmission shaft with its power taken from the looper drive shaft (10). The feeler lever has an adjustable position along the lifter shaft (34).

IPC 8 full level  
**D05B 57/26** (2006.01); **D05B 57/14** (2006.01)

CPC (source: EP KR US)  
**D05B 57/143** (2013.01 - EP US); **D05B 57/26** (2013.01 - KR); **D05B 57/265** (2013.01 - EP US)

Cited by  
DE102007050244A1; DE102007050243A1; DE102007050245A1; EP2050851A1; EP2050852A1; EP2050853A1

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 2005039657 A1 20050224; US 6923130 B2 20050802**; AT E340281 T1 20061015; AU 2003294920 A1 20040722;  
CN 100543214 C 20090923; CN 1692194 A 20051102; DE 10261339 C1 20031113; DE 50305144 D1 20061102; EP 1576224 A1 20050921;  
EP 1576224 B1 20060920; JP 2006512121 A 20060413; JP 4395445 B2 20100106; KR 101086999 B1 20111129; KR 20050086367 A 20050830;  
TW 200422465 A 20041101; TW I294935 B 20080321; WO 2004059064 A1 20040715

DOCDB simple family (application)  
**US 50157204 A 20040713**; AT 03785896 T 20031219; AU 2003294920 A 20031219; CN 200380100280 A 20031219; DE 10261339 A 20021228;  
DE 50305144 T 20031219; EP 0314626 W 20031219; EP 03785896 A 20031219; JP 2004562806 A 20031219; KR 20047013106 A 20031219;  
TW 92137448 A 20031226