

Title (en)  
Horizontal rotating shuttle of sewing machine

Title (de)  
Waagerechter Umlaufgreifer einer Nähmaschine

Title (fr)  
Navette rotative horizontale pour machine à coudre

Publication  
**EP 1443137 A1 20040804 (EN)**

Application  
**EP 03258190 A 20031223**

Priority  
JP 2003021615 A 20030130

Abstract (en)  
A horizontal rotating shuttle (11) of sewing machine having a shuttle hook point (6), provided on a rotating hook (2) accommodating a rotating hook bobbin case holder (3) rotatably about an axis, tapered along an axial rotational direction of the rotating hook, and a needle guard (7) having a shape distorted along the axial rotational direction, with one end fixed to the rotating hook and the other end as a free end. Adjustment means (21) adjustably displaces the needle guard (7) in a direction to increase/reduce an outer diameter of the rotating hook. In a case where the horizontal rotating shuttle (11) is mounted in a sewing machine, and the clearance between a needle (8) which reciprocates in a vertical direction while holding a needle thread and the needle guard of the rotating hook becomes outside an appropriate range, the adjustment means (21) displaces the needle guard in the direction to increase the outer diameter of the rotating hook or in the direction to reduce the outer diameter of the rotating hook. Thus the clearance between the needle and the needle guard can be adjusted to a value within the appropriate range. <IMAGE>

IPC 1-7  
**D05B 57/14**

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

CPC (source: EP)  
**D05B 57/143** (2013.01)

Citation (search report)  

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