

Title (en)  
Thread cutting apparatus for sewing machine

Title (de)  
Fadenschneidevorrichtung für Nähmaschine

Title (fr)  
Appareil de découpe de fils pour machine à coudre

Publication  
**EP 2034074 A1 20090311 (EN)**

Application  
**EP 08015762 A 20080905**

Priority  
JP 2007229997 A 20070905

Abstract (en)  
A thread cutting apparatus for a sewing machine according to the present invention is arranged in which a spindle for supporting a movable knife beneath a needle plate is located closer to the location of an upper thread loop than the location of a needle hole provided in the needle plate. The apical portion of the movable knife faces the loop opening of the upper thread loop frontwardly of the location of the needle hole. The apical portion of the movable knife that oscillates forward and backward around the spindle enters the loop opening of the upper thread loop from a direction perpendicular to the loop opening. Even when the upper thread loop is interrupted in the shape by the development of a hitch stitch, the movable knife can certainly catch the upper thread loop and cut the threads in combination with a stationary knife.

IPC 8 full level  
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CPC (source: EP KR)  
**D05B 65/00** (2013.01 - KR); **D05B 65/02** (2013.01 - EP KR); **D05B 65/06** (2013.01 - KR); **D05B 69/22** (2013.01 - EP)

Citation (applicant)  
• DE 102007045598 A1 20080327 - JUKI KK [JP]  
• DE 3923074 A1 19900118 - JUKI KK [JP], et al

Citation (search report)  
• [PX] DE 102007045598 A1 20080327 - JUKI KK [JP]  
• [XA] DE 3923074 A1 19900118 - JUKI KK [JP], et al  
• [A] EP 1050614 A2 20001108 - PEGASUS SEWING MACHINE MFG CO [JP]  
• [A] US 6152058 A 20001128 - TAJIMA IKUO [JP], et al  
• [A] DE 19801226 C1 19990812 - DUERKOPP ADLER AG [DE]  
• [A] US 5289791 A 19940301 - SANDERS MICHAEL S [US], et al  
• [A] US 4879960 A 19891114 - PRAIS EUGENE R [US]

Cited by  
CH704599A1; CN107419448A; EP4361334A1; WO2009156084A1

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