

Title (en)  
THREAD CUTTING APPARATUS AND AUTOMATIC STITCHING APPARATUS

Title (de)  
FADENSCHNEIDVORRICHTUNG UND AUTOMATISCHE NÄHVORRICHTUNG

Title (fr)  
APPAREIL DE COUPE DE FIL ET APPAREIL DE COUTURE AUTOMATIQUE

Publication  
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Application  
**EP 23204458 A 20231018**

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Abstract (en)  
The present invention provides a thread cutting apparatus, including: a fixed seat (73); a fixed cutting piece (61) fixed on the fixed seat (73); a movable cutting piece (62) fixed on the fixed seat (73) by a bolt (74); a bent pull plate (65), where the upper end of the bent pull plate (65) is combined with the tail end of the movable cutting piece (62); and a large angle pull plate (69), where the upper end of the large angle pull plate (69) is combined with the lower end of the bent pull plate (65). When the lower end of the large angle pull plate (69) is pushed and pulled, the movable cutting piece (62) is opened and closed relative to the fixed cutting piece (61). The present invention further provides an automatic stitching apparatus, including the thread cutting apparatus (6) and a sewing apparatus (1), where the position of the thread cutting apparatus (6) is close to a sewing point of the sewing apparatus (1). The thread cutting apparatus provided by the present invention can automatically cut off a sewing coil after the sewing is completed without the need for secondary processing of the fabric, thereby achieving the automated production.

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Citation (search report)  
• [X] EP 2034074 A1 20090311 - BROTHER IND LTD [JP]  
• [X] DE 3923074 A1 19900118 - JUKI KK [JP], et al  
• [A] US 2020308746 A1 20201001 - CHAN MENG-HSUN [TW]  
• [A] EP 3514277 A1 20190724 - DA KONG ENTPR CO LTD [TW]  
• [A] WO 2009144049 A1 20091203 - LONATI SPA [IT], et al

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