

Title (en)  
SYNTHETIC YARN SPLICER

Title (de)  
SYNTHETIKGARNSPLEISSER

Title (fr)  
ÉPISSEUR DE FIL SYNTHÉTIQUE

Publication  
**EP 3771678 B1 20230315 (EN)**

Application  
**EP 20188112 A 20200728**

Priority  
JP 2019140208 A 20190730

Abstract (en)  
[origin: EP3771678A1] A splicer (66) includes a yarn splicing portion (66a), a first clamping portion (123), a second clamping portion (133), and a shutter mechanism (140). The yarn splicing portion (66a) includes a chamber (114) and an injection hole (116a) and entangles a first yarn (YA) and a second yarn (YB) inserted through the chamber (114). The first clamping portion (123) clamp the first yarn (YA) and the second yarn (YB). The second clamping portion (133) clamp the first yarn (YA) and the second yarn (YB). The shutter mechanism (140) can close at least a part of the chamber (114) and closes one side or a side far from the yarn splicing portion (66a) of the first clamping portion (123) and the second clamping portion (133) in the chamber (114) when entangling the first yarn (YA) and the second yarn (YB) using the yarn splicing portion (66a).

IPC 8 full level  
**B65H 69/06** (2006.01)

CPC (source: CN EP)  
**B65H 69/061** (2013.01 - EP); **D01H 15/002** (2013.01 - CN); **B65H 2701/313** (2013.01 - EP); **B65H 2701/319** (2013.01 - EP)

Citation (examination)  
DE 3540324 C2 19911024

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3771678 A1 20210203**; **EP 3771678 B1 20230315**; CN 112301484 A 20210202; CN 112301484 B 20230428; JP 2021024740 A 20210222; JP 7465742 B2 20240411; TW 202120760 A 20210601; TW I829954 B 20240121

DOCDB simple family (application)  
**EP 20188112 A 20200728**; CN 202010743229 A 20200729; JP 2020127438 A 20200728; TW 109125683 A 20200729