

Title (en)  
SYNTHETIC YARN SPLICER

Title (de)  
SYNTHETIKGARNSPLEISSER

Title (fr)  
DISPOSITIF D'ÉPISSAGE DE FIL SYNTHÉTIQUE

Publication  
**EP 3553008 A1 20191016 (EN)**

Application  
**EP 19167718 A 20190408**

Priority  
JP 2018076686 A 20180412

Abstract (en)  
A synthetic yarn splicer 1 includes: a yarn splicing portion 10 that includes a chamber 14 which forms a space through which a first yarn Y1 and a second yarn Y2 are insertable and an injection hole 16a which injects air; and a first clamping mechanism 20 and a second clamping mechanism 30 that are provided at a position interposing the chamber 14 of the yarn splicing portion 10 and hold each of the first yarn Y1 and the second yarn Y2 inserted through the space, in which a cross-sectional shape of the chamber 14 formed on a plane orthogonal to a penetration direction of the chamber 14 is a circular shape, and in which a first line passing through a center C of the chamber 14 and connecting an inner peripheral surface 14a of the chamber 14 and a second line passing through the center C of the chamber 14, connecting the inner peripheral surface 14a of the chamber 14, and orthogonal to the first line are equal to or larger than 4.0 mm and equal to or smaller than 7.0 mm.

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

CPC (source: CN EP)  
**B65H 69/061** (2013.01 - CN EP); **B65H 2402/414** (2013.01 - EP); **B65H 2701/313** (2013.01 - EP)

Citation (applicant)  
JP H1017214 A 19980120 - MURATA MACHINERY LTD

Citation (search report)  
• [X] US 5280698 A 19940125 - GERSTNER-STEVENSON DITMAR [DE], et al  
• [A] US 4693067 A 19870915 - LOCATELLI LORENZO [IT]  
• [A] US 4397140 A 19830809 - SHEEHAN RICHARD W, et al

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3553008 A1 20191016**; **EP 3553008 B1 20230329**; CN 110371789 A 20191025; CN 110371789 B 20221122; JP 2019182662 A 20191024; TW 201943900 A 20191116; TW I746960 B 20211121

DOCDB simple family (application)  
**EP 19167718 A 20190408**; CN 201910279319 A 20190409; JP 2019071379 A 20190403; TW 108112932 A 20190412