

Title (en)

Yarn joining device and handy splicer

Title (de)

Vorrichtung zum Verbinden von Fäden und Handspleissvorrichtung

Title (fr)

Dispositif de raccordement de fils et dispositif manuel d'épissage

Publication

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Application

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Abstract (en)

The present invention provides a yarn joining device (1) for joining two yarns (Ya,Yb) with the tail ends (eo, eo) thereof aligned in the same direction. The yarn joining device reduces the size of the joint portion of the yarns even if the yarn joining is successively performed, and also adjusts the yarn joining length, and thereby forms the joint portion of yarns uniformly and reliably. In the yarn joining device for joining tail ends of two yarns with the tail ends aligned in the same direction, loosening and twining of the tail ends of the yarns is performed successively by a single air jet nozzle (2).
<IMAGE>

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CPC (source: EP)

B65H 69/061 (2013.01); **B65H 2402/414** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [X] US 4825630 A 19890502 - CZELUSNIAK JR PAUL A [US], et al
- [X] US 4788814 A 19881206 - CROUCH MILTON R [US], et al
- [X] US 5357740 A 19941025 - MORELAND DARRON [US]
- [X] US 6185922 B1 20010213 - LOGAN FANNIE E [US]
- [A] US 4538407 A 19850903 - MATSUI ISAMU [JP], et al
- [A] US 4555899 A 19851203 - MIMA HIROSHI [JP]
- [A] BE 1003689 A3 19920519 - PICANOL NV
- [DX] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

Cited by

CN102951496A; CN110182652A; EP2042625A4; CN110116941A; EP1959042A4; EP1956127A4; CN109911710A; EP4211066A4; WO2007043336A1; WO2007043335A1; TWI829954B; TWI810473B; TWI810472B

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