



(11)

EP 2 889 057 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
26.08.2015 Bulletin 2015/35

(51) Int Cl.:

A63B 29/02 (2006.01) **D03D 1/00** (2006.01)
D07B 1/00 (2006.01) **D07B 1/04** (2006.01)
D07B 1/14 (2006.01) **B66C 1/18** (2006.01)
D07B 7/16 (2006.01) **B66C 1/12** (2006.01)

(43) Date of publication A2:
01.07.2015 Bulletin 2015/27

(21) Application number: 14162634.1

(22) Date of filing: 31.03.2014

(84) Designated Contracting States:
**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 States:
BA ME

(30) Priority: 24.12.2013 CN 201310722688

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(54) Seamless webbing loop of rock climbing quickdraw, textile machine and textile method

(57) The present invention discloses a seamless webbing loop of a rock climbing quickdraw, a textile machine and a textile method. The seamless webbing loop of a rock climbing quickdraw contains a plurality of tubular webbing layers, one surrounded by another, among which there is at least one indication layer. The indication layer is adjacent to the outermost one among the plurality of tubular webbing layers or is the innermost one among the plurality of tubular webbing layers. Such a multilayered structure of the webbing loop enhances the strength

of the webbing loop for the quickdraw, but does not cause a seam to the webbing loop. Further, the indication layer contained in the webbing loop functions to remind a user of timely replacement of the webbing loop when the webbing loop is worn, and thus the webbing loop is safe in use. With the movable spindle assembly arranged on the textile machine, it is convenient to remove the webbing loop from the textile machine. In addition, the webbing loop disclosed in the present invention has a simple structure without any seam, and is strong, safe and durable.

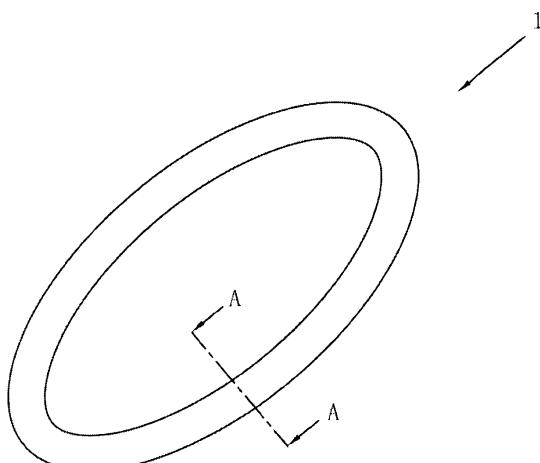


Fig.1



EUROPEAN SEARCH REPORT

Application Number

EP 14 16 2634

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 4 850 629 A (ST GERMAIN DENNIS [US]) 25 July 1989 (1989-07-25) * claims 1,3-5 * * column 2, line 37 - line 45 * -----	1,3,4	INV. A63B29/02 D03D1/00 D07B1/00 D07B1/04 D07B1/14 B66C1/18 D07B7/16 B66C1/12
X	ZA 9 307 334 A (CARGO CONTROL SYSTEMS CC) 25 April 1994 (1994-04-25) * the whole document * -----	1,3,4	
X	JP 2002 137885 A (HOSHINO KOGYO KK) 14 May 2002 (2002-05-14) * figure 6 * * paragraph [0004] * -----	1,2	
A	US 5 785 146 A (PALMER KENNETH MICHAEL [US]) 28 July 1998 (1998-07-28) * the whole document * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			A63B A62B D03D F16B D07B B66C
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search		Examiner
Munich	26 March 2015		Tejada Biarge, Diego
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		

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Application Number

EP 14 16 2634

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

1-4

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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 14 16 2634

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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1. claims: 1-4

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A seamless webbing loop of a rock climbing quickdraw, comprising a plurality of tubular webbing layers, one surrounded by another, among which there is at least one indication layer.

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2. claims: 5-10

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A textile machine for weaving a seamless webbing loop of a rock climbing quickdraw.

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 14 16 2634

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-03-2015

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	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	US 4850629	A 25-07-1989	NONE	
15	ZA 9307334	A 25-04-1994	NONE	
	JP 2002137885	A 14-05-2002	NONE	
20	US 5785146	A 28-07-1998	NONE	
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82