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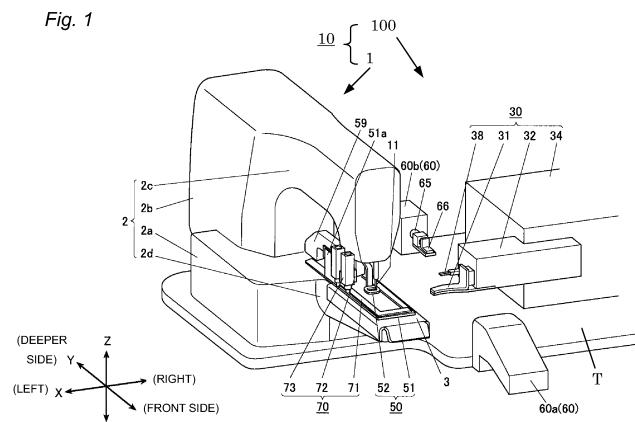
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(54) **Belt loop sewing apparatus and method of controlling belt loop sewing apparatus**

(57) The invention relates to a belt loop sewing apparatus including: a holding unit which holds one of ends in a longitudinal direction of a belt loop disposed in the longitudinal direction; a clamp unit which includes a loop clamp capable of clamping or releasing the other end of the belt loop from a holding position set by the holding unit and which moves the loop clamp in a direction crossing the longitudinal direction; a fork unit which includes, on a tip, a fork formed into a forked shape and interposing the belt loop between the holding unit and the loop clamp, which is rotatable around an axis in the direction crossing the longitudinal direction and movable in the direction crossing the longitudinal direction together with the loop

clamp, and which folds one of the ends of the belt loop back toward a central side of the belt loop by a rotation of the fork unit; and a controller which controls the rotation of the fork unit in order to fold the one of the ends of the belt loop back toward the central side of the belt loop, wherein the held belt loop is moved in the direction crossing the longitudinal direction to place the belt loop in a sewing position of a sewing machine, and wherein the controller moves the loop clamp holding the belt loop by a predetermined amount in the direction crossing the longitudinal direction and then rotates the fork unit to fold the end of the belt loop.

Fig. 1





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 2010 075386 A (JUKI KK) 8 April 2010 (2010-04-08) * abstract; figures 1-26 *	1-9	INV. D05B35/06
X	JP 2010 075380 A (JUKI KK) 8 April 2010 (2010-04-08) * abstract; figures 1-10 *	1-9	
X	JP 2010 075383 A (JUKI KK) 8 April 2010 (2010-04-08) * figures 1-7 *	1-9	
X	JP 2010 264179 A (JUKI KK) 25 November 2010 (2010-11-25) * abstract; figures 1-12 *	1-9	
A	JP 2003 311058 A (BROTHER IND LTD) 5 November 2003 (2003-11-05) * abstract; figures 1-18 *	1-9	
TECHNICAL FIELDS SEARCHED (IPC)			
D05B			
The present search report has been drawn up for all claims			
1	Place of search	Date of completion of the search	Examiner
50	Munich	21 April 2015	Herry-Martin, D
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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.

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 21-04-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2010075386 A	08-04-2010	CN 101684594 A JP 5410719 B2 JP 2010075386 A	31-03-2010 05-02-2014 08-04-2010
JP 2010075380 A	08-04-2010	CN 101684596 A JP 5372451 B2 JP 2010075380 A	31-03-2010 18-12-2013 08-04-2010
JP 2010075383 A	08-04-2010	CN 101684592 A JP 5519137 B2 JP 2010075383 A	31-03-2010 11-06-2014 08-04-2010
JP 2010264179 A	25-11-2010	CN 101892563 A JP 2010264179 A	24-11-2010 25-11-2010
JP 2003311058 A	05-11-2003	JP 3988124 B2 JP 2003311058 A	10-10-2007 05-11-2003

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 EPO FORM P0459

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