(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 2 392 706 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
10.12.2014 Bulletin 2014/50

(43) Date of publication A2:
07.12.2011 Bulletin 2011/49

(21) Application number: **11003250.5**

(22) Date of filing: **18.04.2011**

(51) Int Cl.:
D03J 1/22 *(2006.01)* ***D03D 49/10*** *(2006.01)*

(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: **21.05.2010 JP 2010117678**

(71) Applicant: **TSUDAKOMA KOGYO KABUSHIKI KAISHA**
Kanazawa-shi,
Ishikawa-ken 921-8650 (JP)

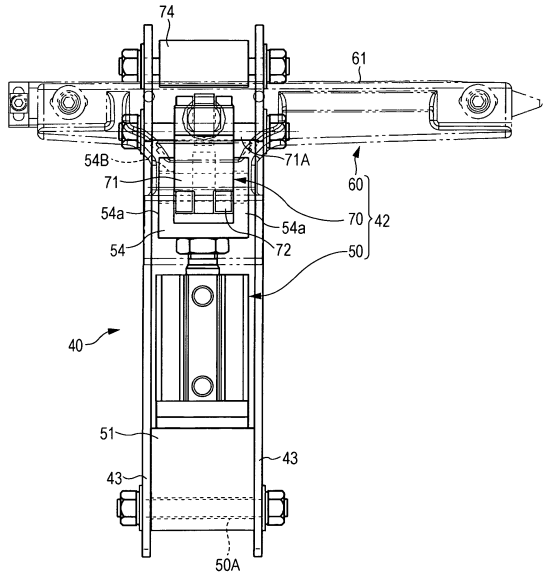
(72) Inventor: **Itou, Naoyuki**
Kanazawa-shi
Ishikawa-ken 921-8650 (JP)

(74) Representative: **Samson & Partner**
Widenmayerstraße 5
80538 München (DE)

(54) Let-off control method and let-off control device for loom including temple device having automatic temple position switching mechanism

(57) In a warp let-ff control method performed by a let-off device of a loom, the loom used for weaving a fabric (2a) having two or more weave sections with different densities, the loom including the let-off device that controls an amount of warp let-off by performing let-off control in which a let-off motor (5c) is driven in accordance with a detected tension and a target tension, and a temple device (40) including a temple (41) that is displaceable between an operating position and a standby position, the temple device automatically switching a position of the temple between the two positions in accordance with a weft density of one of the weave sections to be woven, the method includes controlling driving of a let-off motor with a control mode during a control period including a period during which the temple is displaced, the control mode adjusting an amount of warp let-off in a direction such that a change in a warp tension due to the displacement of the temple is cancelled out, the control mode being different from a control mode for performing let-off control in a normal operation of the loom after the control period.

FIG. 5



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EUROPEAN SEARCH REPORT

Application Number
EP 11 00 3250

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	US 5 065 796 A (ROACH ERNEST F [US] ET AL) 19 November 1991 (1991-11-19) * abstract * * column 4, line 25 - column 6, line 46 * * figures 1-6 *	1-6	INV. D03J1/22 D03D49/10
A	DE 90 06 343 U1 (GEBRÜDER SULZER AG) 20 September 1990 (1990-09-20) * page 4, lines 3-20 * * page 7, paragraph 3 * * figures 1-5 *	1-6	
A	DD 261 383 A1 (FUERSTENWALDE REIFEN VEB K [DD]) 26 October 1988 (1988-10-26) * the whole document *	1-6	

TECHNICAL FIELDS SEARCHED (IPC)

D03J
D03D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	6 October 2014	Louter, Petrus

CATEGORY OF CITED DOCUMENTS

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EPO FORM 1503 03.82 (P04C01)

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06-10-2014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5065796 A	19-11-1991	CS 9102959 A3	13-05-1992
		DE 4132696 A1	09-04-1992
		EP 0479499 A1	08-04-1992
		JP H04281041 A	06-10-1992
		US 5065796 A	19-11-1991
DE 9006343 U1	20-09-1990	NONE	
DD 261383 A1	26-10-1988	NONE	

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