



(11)

EP 1 473 398 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
12.04.2006 Bulletin 2006/15

(51) Int Cl.:
D05B 3/14 (2006.01)

(43) Date of publication A2:
03.11.2004 Bulletin 2004/45

(21) Application number: **04010354.1**

(22) Date of filing: **30.04.2004**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PL PT RO SE SI SK TR**
Designated Extension States:
AL HR LT LV MK

- **Sakamoto, Shinichi**
Tokyo 182 (JP)
- **Oda, You**
Tokyo 182 (JP)
- **Yoshida, Fumihiko**
Tokyo 182 (JP)
- **Shiina, Takayuki**
Tokyo 182 (JP)

(30) Priority: **02.05.2003 JP 2003126991**

(71) Applicant: **JUKI CORPORATION**
Chofu-shi,
Tokyo 182 (JP)

(72) Inventors:
• **Ono, Yasushi**
Tokyo 182 (JP)

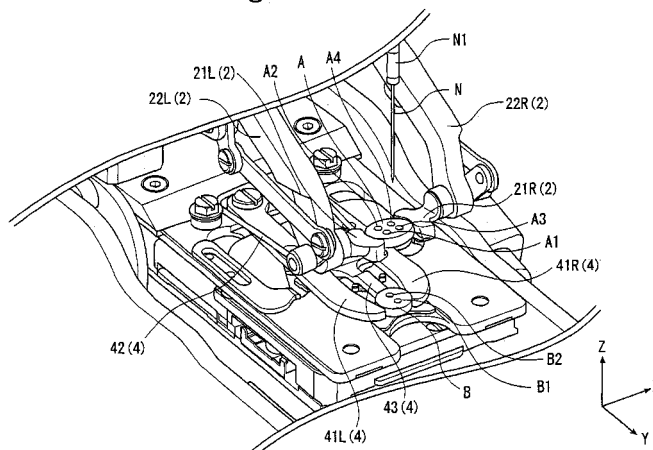
(74) Representative: **Hoeger, Stellrecht & Partner**
Patentanwälte
Uhlandstrasse 14 c
70182 Stuttgart (DE)

(54) **Control apparatus for button sewing machine and button sewing method using the same**

(57) A button sewing machine 100 includes an upper button holding portion 2 and a lower button holding portion 4 for holding an upper button A and a lower button B which are to be sewn onto a cloth M, and sewing operation control means (a CPU 71). The sewing operation control means executes to sew the upper button and the lower button onto the cloth in the combination of a first sewing operation control for driving the upper button holding portion and the lower button holding portion in

such a manner that a thread inserted through holes A1 and B1 of the upper button and the lower button is inserted through other holes A2 and B2 of the upper button and the lower button, and a second sewing operation control for driving the upper button holding portion and the lower button holding portion in such a manner that the thread inserted through one of the holes of the upper button and the lower button is inserted through one of the other holes of the upper button and one hole of the lower button.

Fig.2





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 01 0354

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
D,X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 09, 30 September 1996 (1996-09-30) -& JP 08 117465 A (JUKI CORP), 14 May 1996 (1996-05-14) * abstract; figures * -----	2	D05B3/14
			TECHNICAL FIELDS SEARCHED (IPC) D05B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 February 2006	Examiner Debard, M
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 T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

2

EPO FORM 1503 03.82 (P04C01)

