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(71) Applicant (for all designated States except US): **GOSS INTERNATIONAL AMERICAS, INC.** [US/US]; 121 Broadway, Dover, NH 03820-3290 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KASPER, Kent, Dirksen** [US/US]; 66 Dunn's Bridge Lane, Dover, NH 03820 (US). **KIEFABER, Drew, Edwin** [US/US]; 50 Elm Street, Newmarket, NH 03857 (US). **PERDUE, Daniel, Matthew** [US/US]; 1 Yvonne Street, Rochester, NH 03867 (US).

(74) Agents: **GEHRIS, William, C.** et al.; Davidson, Davidson & Kappel, LLC, 485 Seventh Avenue, 14th Floor, New York, NY 10018 (US).

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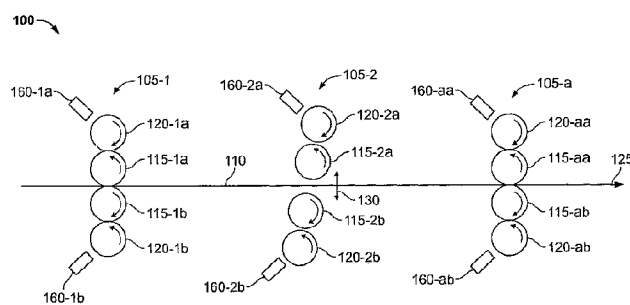


FIG. 1A

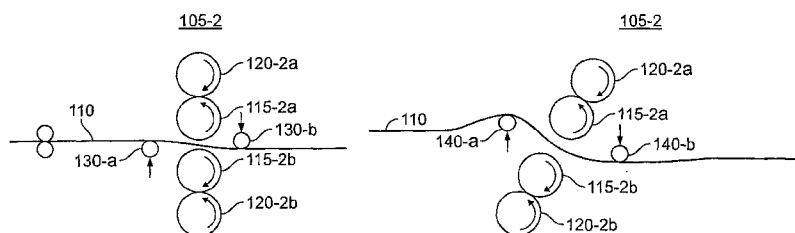


FIG. 1B

FIG. 1C

(57) Abstract: A noncontact web stabilizer is provided in which members located on opposite sides of a web reduce out-of-plane web vibrations. Specifically, a first member is located on one side of a web and a second member is located on the opposite side of the web. Both members are positioned so that the distance between the web and the members decrease in the direction that the web is moving, creating opposing regions of high pressure that force the web toward its nominal running position, thereby reducing out-of-plane web instability.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B41F 13/02 (2008.04)

USPC - 101/225

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - B41F 13/02; B65H 23/00 (2008.04)

USPC - 101/225, 219, 220, 231, 232, 477

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2,519,298 A (FISCHER) 08 July 1983 (08.07.1983) see entire document	1-3, 8-11, 14, 18-19
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Y		4-7, 12-13, 15-17
Y	US 5,901,648 A (ROLAND et al) 11 May 1999 (11.05.1999) see entire document	4, 15-16
Y	GB 1,587,497 A (VEB KOMBINAT POLYGRAPH 'WERNER LAMBERZ' LEIPZIG) 08 April 1981 (08.04.1981) see entire document	5-7
Y	US 2003/0066450 A1 (SENOO et al) 10 April 2003 (10.04.2003) see entire document	12
Y	US 3,650,043 A (OVERLY et al) 21 March 1972 (21.03.1972) see entire document	13
Y	US 6,986,305 B2 (KNAUER) 17 January 2006 (17.01.2006) see entire document	17

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Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

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Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774