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(71) Applicant (for all designated States except US): **ILLINOIS TOOL WORKS INC.** [US/US]; 3600 West Lake Avenue, Glenview, IL 60026 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PIOTROWSKI, Stanley** [US/US]; 3600 West Lake Avenue, Glenview, IL 60026 (US). **MCMAHON, Michael, J.** [US/US]; 3600 West Lake Avenue, Glenview, IL 60026 (US).

(74) Agent: **HAUPTMAN, Benjamin, J.**; Lowe Hauptman Ham & Berner, LLP, 1700 Diagonal Road, Suite 300, Alexandria, VA 22314 (US).

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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

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(54) Title: **PUSH-TO-EXPAND MANDREL FOR STRETCH-WRAP HAND TOOL**

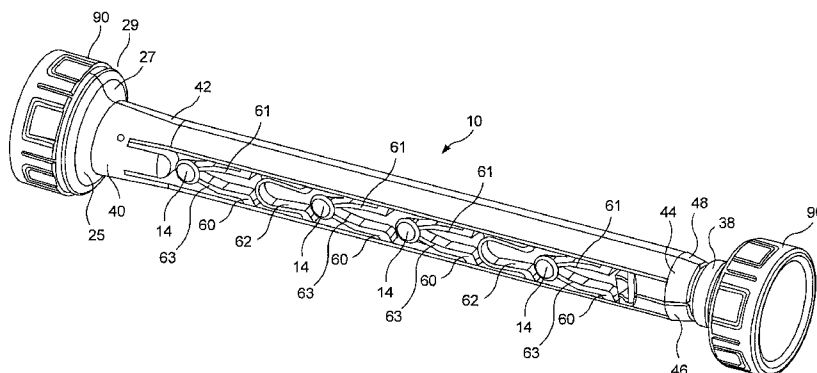


FIG. 1A

(57) Abstract: The present disclosure relates to a dispenser (10) for use with rolls of film material, particularly coreless rolls. The mandrels (40, 42, 40') of the dispenser can move between a retracted position wherein the dispenser has a reduced diameter, such as for when the dispenser is being inserted into a roll of film, and an increased diameter, such as for when the film is being dispensed from the dispenser. The mandrels (40, 42) have sections which are joined by various spring configurations (60, 62, 64) and are formed as being axially slidable with respect to a central shaft (12) with lug elements (14). As the mandrel is slid along the central shaft, the lug elements deflect the spring configurations outwardly so as to move the mandrels radially outwardly and increase the radius of the dispenser.



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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/044316

A. CLASSIFICATION OF SUBJECT MATTER

INV. B65H75/24

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)

B65H B21C

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 188 125 A (NORITSU KENKYU CENTER CO NORITSU KENKYU CENTER CO [JP]) 23 September 1987 (1987-09-23) figures 1-4	1-5
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X	WO 03/040012 A (MOSER JOSEF [AT]) 15 May 2003 (2003-05-15) figures 5,6	1-5
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Pussemier, Bart

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International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 002 652 A (VOEST ALPINE AG [AT]) 11 July 1979 (1979-07-11) figures 1-3 -----	1-3
X	US 6 227 479 B1 (DEAN WILLIAM L [US] ET AL) 8 May 2001 (2001-05-08) figures 3,4 -----	1-3
X	GB 2 386 366 A (CG AUTOMATION LTD [GB]) 17 September 2003 (2003-09-17) figures 1-4 -----	1-3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/044316

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-16

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-16

A dispenser for roll material, comprising a mandrel in sliding relationship with the axial shaft, wherein the mandrel includes at least a first mandrel section and a second mandrel section which can move toward or away from each other.

2. claims: 17-20

A dispenser for roll material, comprising: an axial shaft including a first appliance on a first end thereof; at least one radially expandable mandrel assembly concentrically outward of the axial shaft; a first bushing with a first inclined camming wall; a second bushing with a second inclined camming wall; a second appliance on the second bushing.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/044316

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