



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/CA98/00486 (22) International Filing Date: 21 May 1998 (21.05.98) (30) Priority Data: 2,205,456 21 May 1997 (21.05.97) CA (71) Applicant (for all designated States except US): FLEXI-COIL LTD. [CA/CA]; 1000 - 71st Street East, Saskatoon, Saskatchewan S7K 6E2 (CA). (72) Inventor; and (75) Inventor/Applicant (for US only): FRIGGSTAD, Terrence [CA/CA]; 505 Parklands Road, Grasswood, Saskatchewan S7T 1A5 (CA). (74) Agent: ASQUITH, Anthony; 173 Westvale Drive, Waterloo, Ontario N2T 1B7 (CA).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 18 March 1999 (18.03.99)
(54) Title: FOLDING FRAME IMPLEMENT		
(57) Abstract A folding frame farm implement comprising: a) a cart (21), b) a multi-section rockshaft frame (20) mounted on said cart and oriented generally transversely in the working position, c) said rockshaft frame (20) having a central section (20c) and laterally disposed wing sections (20a, 20e), d) wheel means (2, 3) supporting said rockshaft frame sections, e) said rockshaft frame sections being rotatable about a generally transverse axis between a 1st position and a 2nd position, f) a plurality of individual tool frame sections (27, 28) rotatably mounted to corresponding ones of said rockshaft frame sections about a generally transverse axis, g) individual wheel support means (29, 31) for each tool frame section, h) wherein said tool frame sections (27, 28) are supported at working positions and a non-working position at a variable height above the ground determined by the relative rotational position of the rockshaft frame (20) between said 1st position and said 2nd position and by the said wheel support means (29, 31), i) central tool frame section support means (31) associated with said central rockshaft frame section adapted to retain said central tool frame section (20c) in close proximity to the ground for transport, j) lift means to further rotate said wing frame tool sections (20a, 20c) from a generally horizontal position to a raised position for transport and k) said wing sections (20a, 20c) being foldable rearwardly for transport.		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 98/00486

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A01B73/02 A01B73/00

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 6 A01B A01D

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 614 604 A (KUHN) 14 September 1994 see abstract; figures	2-4
A	---	5
A	FR 2 707 450 A (KUHN) 20 January 1995 see page 3, line 33 - page 4, line 1; figures	2
A	---	2
A	US 4 496 004 A (FRASE) 29 January 1985 see abstract; figures	2
A	---	1
A	FR 2 282 210 A (RABEWERK) 19 March 1976 see page 9, line 12 - line 26; figures 3,4	1
A	---	1
	US 4 418 762 A (PAGE) 6 December 1983 see abstract; figures	

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *Z* document member of the same patent family

Date of the actual completion of the international search

14 January 1999

Date of mailing of the international search report

21. 01. 1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Walvoort, B

INTERNATIONAL SEARCH REPORT

International Application No

PCT/LA 98/00486

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 25 37 391 A (RAU) 24 February 1977 see figures ---	1
A	US 5 158 145 A (KARCHEWSKI) 27 October 1992 see figures ---	1
A	US 3 333 645 A (GUSTAFSON) 1 August 1967 see figures -----	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA 98/00486

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 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 fee, this Authority did not invite payment of any additional fee.
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.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ 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. Claim : 1

folding frame farm implement

2. Claims: 2-6

farm implement wheel support mechanism

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 98/00486

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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