

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 January 2007 (18.01.2007)

PCT

(10) International Publication Number
WO 2007/008436 A3

- (51) International Patent Classification:
A47C 7/18 (2006.01)
- (21) International Application Number:
PCT/US2006/025314
- (22) International Filing Date: 29 June 2006 (29.06.2006)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11/180,134 13 July 2005 (13.07.2005) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/463,187 (CIP)
Filed on 17 June 2003 (17.06.2003)
- (71) Applicant (for all designated States except US): **ILLINOIS TOOL WORKS INC.** [US/US]; 3600 West Lake Avenue, Glenview, IL 60025 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **YORK, Julie, L.**

[US/US]; 10128 Burlingames Ave., Byron Center, MI 49315 (US). **WOLTERS, Gary, W.** [US/US]; 6981 Toulonga Drive, Zeeland, MI 49464 (US). **ASSINK, Kenneth** [US/US]; 13395 Tyler Street, Holland, MI 49424 (US).

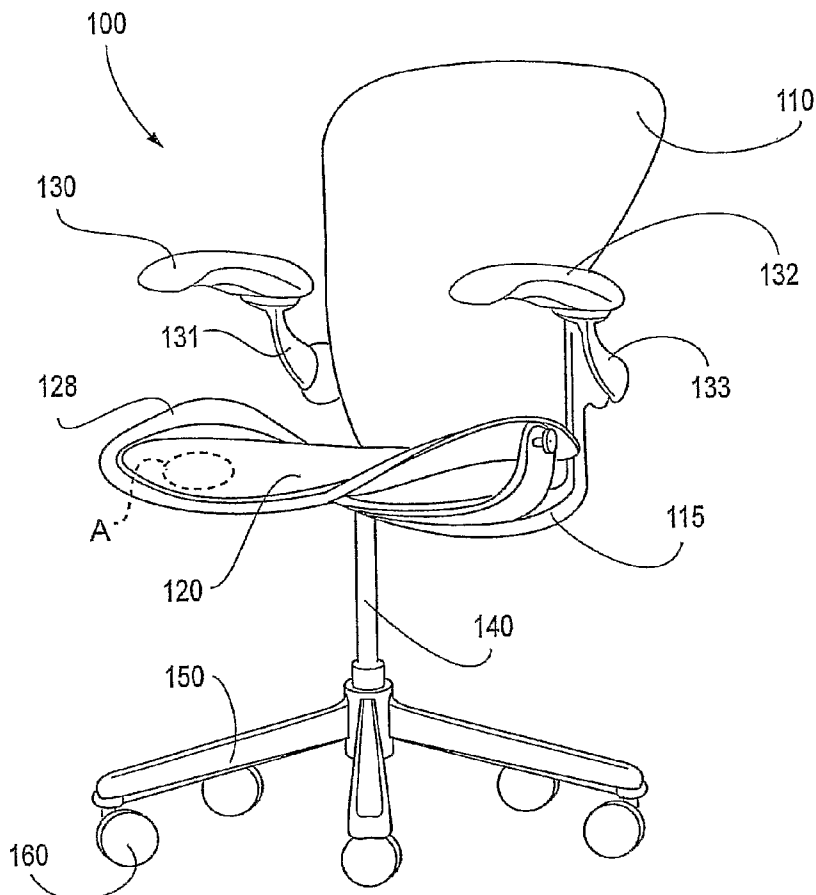
(74) Agent: **BANDY, Mark, E.**; FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP, 1100 Superior Avenue, 7th Floor, Cleveland, OH 44114 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: REMOVABLE SEAT CUSHION



(57) Abstract: A seat cushion is disclosed that can be easily attached to, and removed from, a chair or seat utilizing a mesh seat bottom. The removable seat cushion includes a collection of downwardly extending engagement members that engage the mesh upon insertion through voids in the mesh.

WO 2007/008436 A3



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

3 May 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/025314A. CLASSIFICATION OF SUBJECT MATTER
INV. A47C7/18

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)
A47C

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 147 666 A (UNIVERSAL OIL PROD CO) 9 March 1973 (1973-03-09) page 5, line 2 - page 5, line 16 figures 1,2	1
X	FR 2 696 917 A1 (CHAIRTECH [FR]) 22 April 1994 (1994-04-22) abstract; figures 2,3,9	1
X	DE 33 21 410 A1 (LINK WILHELM KG [DE]) 20 December 1984 (1984-12-20) abstract; figures 1-5	1
A	EP 0 689 786 A (HWU CHYN HERNG [TW]) 3 January 1996 (1996-01-03) abstract; figure 1	1-51
	----- -/--	

 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

13 October 2006

Date of mailing of the international search report

16. 03. 2007

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

MacCormick, Duncan

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/025314

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 529 248 A (TROTMAN HELEN H [US] ET AL) 16 July 1985 (1985-07-16) abstract; figures -----	1-51

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/025314

Box 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 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 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.:

1-51

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. claims: 1-51

A seat cushion adapted for releasable engagement with a mesh seat member

2. claims: 52-58

A seating structure comprising a support structure, and a pad assembly comprising a rim component.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/025314

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2147666	A	09-03-1973	AU 471252 B2 15-04-1976
			AU 4492672 A 31-01-1974
			CA 951440 A1 16-07-1974
			DE 2236742 A1 15-02-1973
			DE 7227754 U 16-11-1972
			GB 1388888 A 26-03-1975
			IT 961665 B 10-12-1973
			JP 56043725 B 14-10-1981
			SE 385266 B 21-06-1976
			US 3736022 A 29-05-1973

FR 2696917	A1	22-04-1994	NONE

DE 3321410	A1	20-12-1984	NONE

EP 0689786	A	03-01-1996	ZA 9403085 A 13-01-1995

US 4529248	A	16-07-1985	NONE
