

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 December 2007 (27.12.2007)

PCT

(10) International Publication Number
WO 2007/148202 A3

(51) International Patent Classification:
B62K 21/18 (2006.01)

(21) International Application Number:
PCT/IB2007/001643

(22) International Filing Date: 20 June 2007 (20.06.2007)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
MO2006A000199 20 June 2006 (20.06.2006) IT

(71) Applicant and

(72) Inventor: **CAVICCHI, Stefano** [IT/IT]; Via Cavedoni
105, I-41058 Vignola (MO) (IT).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL,

IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

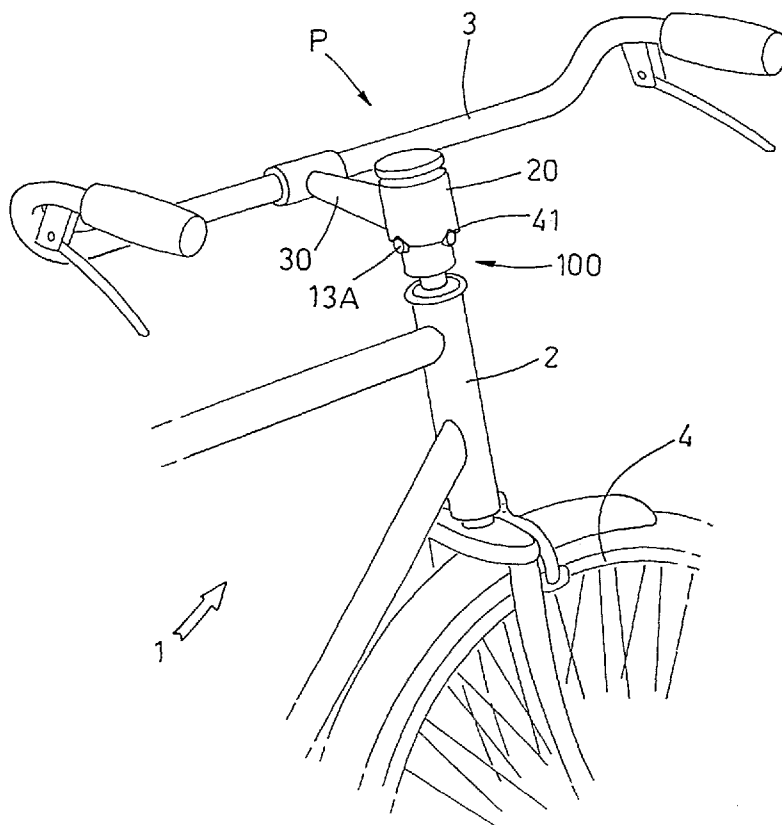
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

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:
8 May 2008

(54) Title: DEVICE FOR TURNING A BICYCLE STEERING HANDLEBAR TO A PARKING POSITION



(57) Abstract: The device (100, 200), interposed between the handlebar (3) and the steering tube (2) of a bicycle (1) includes: a first element (10) made integral with the steering tube (2); a second element (20), made integral with the handlebar (3); joint means (40, 240) interposed between the first and second elements (10, 20) for allowing a relative movement between the first and second elements to define an in-use position (M), in which the handlebar (3) is oriented perpendicular to the front wheel (4) of the bicycle (1), and a parking position (P), in which the same handlebar (3) is oriented substantially parallel to the front wheel (4); locking means (60, 260) associated to the joint means (40, 240) for stabilising the in-use position (M) and parking position (P) of the handlebar (3).

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/001643

A. CLASSIFICATION OF SUBJECT MATTER
INV. B62K21/18

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)
B62K

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	DE 42 00 042 A1 (WEBER EDUARD [CH]) 30 July 1992 (1992-07-30) figures 1-7	1,2
X	JP 08 119172 A (SASAKA YOSHIKI) 14 May 1996 (1996-05-14) the whole document	1

☐ 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

28 November 2007

Date of mailing of the international search report

25/02/2008

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

Carneiro, Joaquim

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2007/001643

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 allsearchable 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 reportcovers 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.:

1-13

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: 1-13

A device for turning the steering handlebar of a bicycle to a parking position said device having four Allen screws offset by 90 degrees and a frusto-conical coupling

2. claims: 14-17

A device for turning the steering handlebar of a bicycle to a parking position said device having key operated means

3. claims: 18-22

A device for turning the steering handlebar of a bicycle to a parking position said device having a removable plug placed on top of it

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2007/001643

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 4200042	A1	30-07-1992	NL 9200017 A	17-08-1992
JP 8119172	A	14-05-1996	NONE	