



TRANSLATION OF OFFICIAL LETTER

OFFICIAL LETTER OF PENDING PATENT APPLICATION UNDER EXAMINATION

Name : Campagnolo s.r.l.

(Patent Attorney: Mr. Thomas Q. T. Tsai)

(Patent Attorney: Mr. Victor S. C. Lee)

Issued Date: November 25, 2011

Ref. No.: (100) IP-1 (5)-04084-10021062060

SYLLABUS :

In the matter of patent application No. 095121477 under examination, this Office considers that further clarification is needed, as set forth in Item 1 of the following Explanation. If the applicant has any concrete rebuttal evidence or responsive explanation, please submit them in duplicate to this Office within 3 months following the date of service. The TIPO shall proceed with the examination on the basis of the materials presently available in the event of the applicant's failure to act in accordance with the letter within the time limit.

EXPLANATIONS :

1. After examination, the present application is considered that:
 - 1.1 The present application entitled "CONTROL DEVICE FOR A BICYCLE DERAILLEUR" includes a total of 28 claims, wherein Claim 1 is an independent claim and the others are dependent claims.
 - 1.2 According to the content of Citations 1-2, Claims 1-7, and 14-26 of the present application do not comply with Article 22, Paragraph 4 of the Patent Act.
 - 1.2.1 Regarding independent Claim 1 of the present application, the claims and Figs. 1 and 10 of Citation 1 disclose a brake and gear change control structure of a bicycle having a brake cable (15) for driving a brake of a bicycle, a support body (2) connectable at one side to handlebars (1) and having a grip part (see Fig. 10); a recess (see Fig. 1) for the passage of the control cable (15).

Besides, Citation 2 discloses in columns 3–6 and Figs. 1 and 5 a bicycle control device, having a derailleur control cable (W2), a cable-winding bush (5) about which the control cable (W2) of the derailleur is wound/unwound, and a first lever (22) rotatable with respect to the support body about a first axis for actuating the brake cable (W1) and rotatable about a second axis for driving the cable-winding bush (5) into rotation. Regarding the recess of Citation 1 for the passage of the control cable (15) being different from the control cable of the present application for changing speed, such difference is just a simple structural replacement and the replaced structure is unable to achieve unanticipated effect. Accordingly, this claim is a simple combination of Citations 1–2, and can be easily achieved by the person having ordinary knowledge in the art based on the cited references, thus lacking an inventive step.

- 1.2.2 Regarding Claims 2–5, 14, and 19–21 of the present application, Figs. 1 and 10 of Citation 1 disclose that the recess is formed on the support body and open towards the outside, and extends at least one portion, which is suitable for receiving the outer sheath (18) of said control cable (15), in the support body. In addition, the second axis (X2) of the recess is substantially perpendicular to the first axis. Accordingly, these claims are simple combinations of Citations 1–2, and unable to achieve unanticipated effect, thus lacking an inventive step.
- 1.2.3 Regarding Claims 6–7 of the present application, Citation 2 discloses in Fig. 5 that the cable-winding bush is mounted on the support body, and discloses in column 3, lines 56–62 and column 6, lines 6–19 of the specification that the device comprises an indexing mechanism connected to the first lever for driving the cable-winding bush. Accordingly, these claims are simple combinations of Citations 1–2, and unable to achieve unanticipated effect, thus lacking an inventive step.
- 1.2.4 Regarding Claims 15–18 of the present application, Citation 2 discloses in Figs. 6 and 7 that the device comprises a second lever (91) pivotably connected to the first lever and rotatable with respect to the support body about a third axis for driving the cable-winding bush, and the first lever and the second lever being actuated in the same, or opposite, direction to drive said cable-winding bush. Accordingly, these claims are simple combinations of Citations 1–2, and unable to achieve unanticipated effect, thus lacking an inventive step.
- 1.2.5 Regarding Claims 22–26 of the present application, Citation 2 discloses in Figs. 6 and 7, and column 4, line 67 to column 5, line 3 of the specification

that the device comprises two planes (56, 57) cooperating with the cable-winding bush (5) by means of two interference teeth (5a, 5b), the two planes being coaxial and cooperating with the first lever and the second lever, and a third interference tooth (72), cooperating with the plane (56) thereby confining the extend of forward pivoting. Accordingly, these claims are simple combinations of Citations 1–2, and unable to achieve unanticipated effect, thus lacking an inventive step.

1.2.6 No reasons for rejection are found for subject matter defined in the claims that are not pointed out in this Notification at the present stage. A further Notification will be issued to advise of new reasons of rejection, if any.

1.3 Cited Documents:

1. EP 0504118A1
2. US 5400675A

2. Any supplement and/or amendment effected to the subject application should comply with Rule 28 of the Enforcement Rules of the Patent Act. The Application Form for Supplement and/or Amendment should be submitted in duplicate if any supplement and/or amendment are made. Moreover, a mark-up version in duplicate showing changes made to the specification and a clean version of amended pages of the specification and/or drawings in triplicate for substituting the original should be submitted. The entire specification and/or drawings should be submitted in triplicate, in the case where the supplement and/or amendment results in discontinuity of the page numbers of the original specification and/or drawings.
3. If the applicant wishes to come to this Office for a personal demonstration or explanation, please denote “Apply for Interview” in the response and an official fee of NT\$1,000 should be paid at the same time. The venue and time of the “interview” will be further arranged should this Office deem it necessary.
4. Enclosed is a copy of Search Report.

Intellectual Property Office
Ministry of Economic Affairs

Search Report for Taiwan Invention Patent Application No. 095121477

1. Filing Date: June 15, 2006
2. Priority Date: June 27, 2005
3. Classification (IPC): <i>B62M25/04</i> (2006.01), <i>B62L3/02</i> (2006.01)
4. IPC as Searched: <div style="text-align: center; padding: 5px;">B62M (2006.01)</div>
5. Database as Searched (Keywords): EPO, JPO, TIPO Domestic and External Patent Database, China External Patent Database

Code of Relevance	Citation of Documents	Relevant Claims
Y	1. EP 0504118A1 September 16, 1992 Claims, Figs 1 and 10	1-7, 14-26
Y	2. US 5400675A March 28, 1995 Columns 3 to 6, Figs 1 and 5 to 7	1-7, 14-26
A	3. TW I223636 November 11, 2004 Entirety	1-28

Remarks for Codes of Relevance

<p>X: document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve inventive step when the document is taken alone</p> <p>Y: document of particular relevance; the claimed invention cannot be considered to involve inventive step when the document is combined with one or more other such documents</p>	<p>A: documents defining the general state of the art</p> <p>D: documents disclosed in the specification</p> <p>E: invention documents filed prior to but published after the filing date</p> <p>O: documents referring to public use, sales or exhibition</p> <p>P: documents published prior to the filing date but later than the priority date claimed</p> <p>L: documents cited for other reasons</p>
--	--

Date of Research: November 22, 2011

PENDING CLAIMS

1. Integrated control device (1; 100; 200) for driving
a control cable (20) of a derailleur and for driving a
5 brake cable (16) of a brake of a bicycle, comprising:
- a support body (4; 104; 204) connectable at one side
(5; 105; 205) to handlebars (2) and having a part (7;
107; 207), projecting from said side (5; 105; 205),
that can be gripped by the cyclist's hand;
10 - a cable-winding bush (19; 119) about which said
control cable (20) of the derailleur is wound/unwound;
and
- a first lever (9) rotatable with respect to said
support body (4; 104; 204) about a first axis (X1) for
15 actuating said brake cable (16) and rotatable about a
second axis (X2) for driving said cable-winding bush
(19; 119) into rotation in a first direction of
rotation (R2);
characterised in that said support body (4; 104; 204)
20 comprises a recess (25; 125; 225) for the passage of
said control cable (20) of the derailleur.
2. Device (1; 100; 200) according to claim 1,
characterised in that said recess (25; 125; 225) is
made in proximity to said side (5; 105; 205) of said
25 support body (4; 104; 204) connectable to the
handlebars (2).
3. Device (100) according to claim 2, characterised in
that said recess (125) extends in at least one portion
of said projecting part (107) of said support body
30 (104).
4. Device (200) according to claim 2 or 3,
characterised in that said recess (225) is open towards
the outside.
5. Device (1; 100; 200) according to claim 2,
35 characterised in that said recess (25; 125; 225) is

suitable for receiving the outer sheath (24) of said control cable (20).

5 **6.** Device (1; 100; 200) according to claim 1, characterised in that said cable-winding bush (19; 119) is mounted on said support body (4; 104; 204).

7. Device (1; 100; 200) according to any one of the previous claims, characterised in that it comprises an indexing mechanism (12) connected to said first lever (9) and cooperating with said cable-winding bush (19; 10
119) to define predetermined angular positions for said cable-winding bush (19; 119).

8. Device (1; 100; 200) according to claim 7, characterised by comprising a transmission mechanism (28) arranged between said indexing mechanism (12) and
15 said cable-winding bush (19; 119).

9. Device (1; 100; 200) according to claim 8, characterised in that said transmission mechanism (28) comprises a sliding connection (80) suitable for allowing the displacement of said indexing mechanism
20 (12) with respect to said cable-winding bush (19; 119).

10. Device (1; 100; 200) according to claim 9, characterised in that said transmission mechanism (28) allows a rotation of said indexing mechanism (12) about said first axis (X1).

25 **11.** Device (1; 100; 200) according to claim 9, characterised in that said sliding connection (80) comprises at least one slot (34, 35) that slidably receives a projecting element (36, 37) associated with said cable-winding bush (19; 119) or with said indexing
30 mechanism (12).

12. Device (1; 100; 200) according to claim 9, characterised in that said sliding connection comprises at least two telescopic shafts.

13. Device (1; 100; 200) according to claim 8,
35 characterised in that said transmission mechanism (28)

comprises an intermediate shaft (29), a first cardan joint (32), and a second cardan joint (90), said first cardan joint (32) connecting said intermediate shaft (29) to said indexing mechanism (12), and said second
5 cardan joint (90) connecting said intermediate shaft (29) to said cable-winding bush (19; 119).

14. Device (1; 100; 200) according to claim 1, characterised in that said second axis (X2) is substantially perpendicular to said first axis (X1).

10 **15.** Device (1; 100; 200) according to claim 1, characterised by comprising a second lever (10) rotatable with respect to said support body (4; 104; 204) about a third axis (X3) for driving said cable-winding bush (19; 119) into rotation in a second
15 direction of rotation (R1) opposite the first one.

16. Device (1; 100; 200) according to claim 15, characterised in that said second lever (10) is pivoted on said first lever (9).

20 **17.** Device (1; 100; 200) according to claim 15, characterised in that said first lever (9) and said second lever (10) are actuated in the same direction (R2) to drive said cable-winding bush (19; 119) into rotation.

18. Device (1; 100; 200) according to claim 15, characterised in that said first lever (9) and said
25 second lever (10) are actuated in opposite directions to drive said cable-winding bush (19; 119) into rotation.

19. Device (1; 100; 200) according to claim 1, characterised in that said support body (4; 104; 204)
30 comprises a second recess (18) suitable for slidably receiving said brake cable (16).

20. Device (1; 100; 200) according to claim 19, characterised in that said second recess (18) is made

in proximity to said side (5; 105; 205) of said support body (4; 104; 204).

21. Device (1; 100; 200) according to claim 19, characterised in that said second recess (18) is
5 suitable for receiving the outer sheath (16a) of said brake cable (16).

22. Device (1; 100; 200) according to claim 15, characterised in that said indexing mechanism (12) comprises:

- 10 - an indexing bush (42);
- a first ratchet gear (47), associated with said first lever (9), for the rotation of said indexing bush (42) in said first direction of rotation (R2);
- a second ratchet gear (52), associated with said
15 second lever (10), for the rotation of said indexing bush (42) in said second direction of rotation (R1) opposite the first.

23. Device (1; 100; 200) according to claim 22, characterised in that said indexing bush (42) comprises
20 a main shaft (27) rotating about said second axis (X2), a first toothed sector (43) and a second toothed sector (45) adjacent and coaxial to said main shaft (27) along said second axis (X2).

24. Device (1; 100; 200) according to claim 22,
25 characterised in that said first ratchet gear (47) comprises a first pawl (48) provided with an interference tooth suitable for engaging said indexing bush (42).

25. Device (1; 100; 200) according to claim 22,
30 characterised in that said second ratchet gear (52) comprises a second pawl (53) provided with an interference tooth (57) suitable for engaging said indexing bush (42).

26. Device (1; 100; 200) according to claim 22,
35 characterised in that said second ratchet gear (52)

comprises a third pawl (54) provided with a retention tooth (97) suitable for engaging said indexing bush (42).

5 **27.** Device (1; 100; 200) according to claim 22, characterised in that said first (47) and second ratchet gears (52) allow the free rotation of said indexing bush (42) in said second direction of rotation (R1).

10 **28.** Device (1; 100; 200) according to claim 22, characterised in that said first and second ratchet gears allow the rotation by pushing of said indexing bush in said second direction of rotation (R1).