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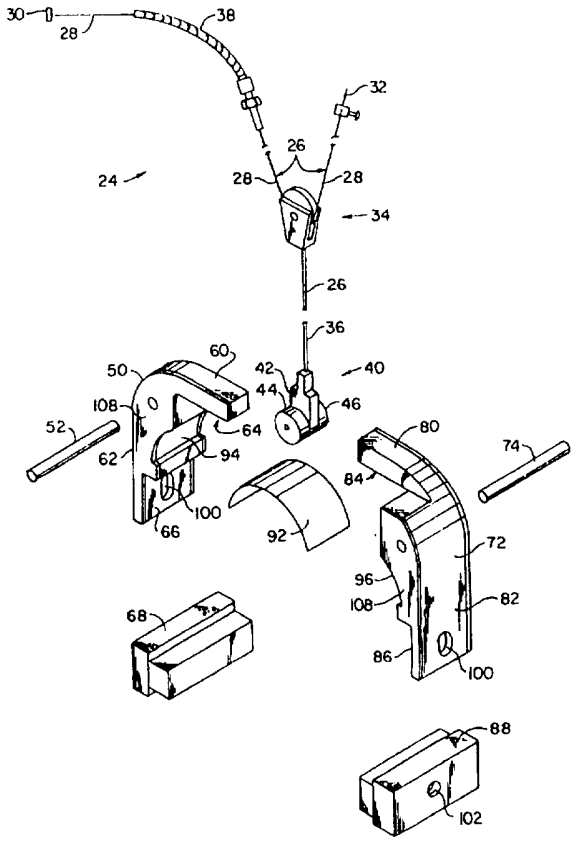
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(54) Title: BRAKE ASSEMBLY CONTAINED WITHIN A FRAME PORTION OF A BICYCLE

(57) Abstract

A novel brake assembly is provided for a bicycle. The bicycle is provided with at least one portion (22) having cavities (56, 76) therein, and the brake assembly includes a brake actuator (10) mounted on the bicycle, a pair of brake calipers (64, 84) mounted in the cavities (56, 76) and pivotally attached to the bicycle, a caliper actuating body (40), and a motion transfer assembly (24) coupled to and movable by the brake actuator (10). The caliper actuating body (40) is connected to the motion transfer asssembly (24). The calipers (64, 84) are provided with first and second arm portions (60, 62, 80, 82), each of the first arm portions having thereon a ramp surface (64) engaged with the body (40) and each of the second arm portions (62, 82) being configured to receive and retain a bake pad (68, 88). The calipers are pivoted by the caliper actuating body, acting on the ramp surfaces in response to movement of the motion transfer assembly, so as to move the calipers in a direction that brings the brake pads into engagement with a wheel of the bicycle, so as to exert a braking force on the bicycle. Spring means (92) are provided to urge the calipers in a direction to move the brake pads away from the wheel.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/18039

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :B62L 3/00
US CL : 188/24.21
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)

U.S. : 188/24.21,24.11-24.22; 280/279,280,288.3; 74/104,107

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 practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 018985 (BRUT) 19 August 1914, see the entire document.	12,16,18,21
Y	FR 0571341 (LAMBERT) 15 May 1924, see the entire document.	13
Y	FR 0771873 (BAPTISTE) 18 October 1934, see the entire document.	19,25
Y	FR 0945003 (BREAS) 22 April 1949, see the entire document.	19,25
X	IT 0690683 (CAMPAGNOLO) 21 June 1965, see the entire document.	12,16,18,21
X	WO 94/04409 (PETERS) 03 March 1994, see the entire document.	12,16,18,21

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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