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**PATENT ABSTRACTS OF JAPAN**(11)Publication number : **03-292280**(43)Date of publication of application : **24.12.1991**(51)Int.Cl. **B62L 3/02****B62L 5/20****G05G 7/04**(21)Application number : **02-405651**(71)Applicant : **SHIMANO INC**(22)Date of filing : **25.12.1990**(72)Inventor : **NAGANO MASASHI**

(30)Priority

Priority number : **01339403** Priority date : **26.12.1989** Priority country : **JP****(54) BRAKE OPERATING DEVICE FOR BICYCLE**

(57)Abstract:

**PURPOSE:** To provide a brake operating device for a bicycle which is capable of delicately regulating braking as the bicycle can be powerfully braked even by means of a low operation force by mounting a force transmission ratio regulating mechanism to regulate a value of a force transmission ratio in linkage with operation of an operation lever, and setting the highest maximal value of a force transmission ratio to a specified position.

**CONSTITUTION:** A brake operation device 1 for a bicycle is provided with a bracket 2 located in the vicinity of a grip G of a handle lever H and an operation lever 4 rockably supported to the bracket 2 through a lever shaft 3. In this case, a cam device C comprises a wire coupling tool 13 to interlock and couple an inner wire I with the operation lever 4, an oblong hole 14 being a movement allowable surface formed on the operation lever 4, and a cam groove 15 being a cam surface formed on a bracket body 5. The cam groove 15 is formed in a shape bent toward the opposite side to the lever shaft 3 so that the length of an output arm is decreased in a state that the wire coupling tool 13 is brought into nearest contact with the lever shaft 3 in a stroke between the movement starting end and the movement terminal end of the operation lever 4 and in a position closer to the movement end side than

