

(No Model.)

S. D. TALBERT.  
BICYCLE LOCK.

No. 601,599.

Patented Mar. 29, 1898.

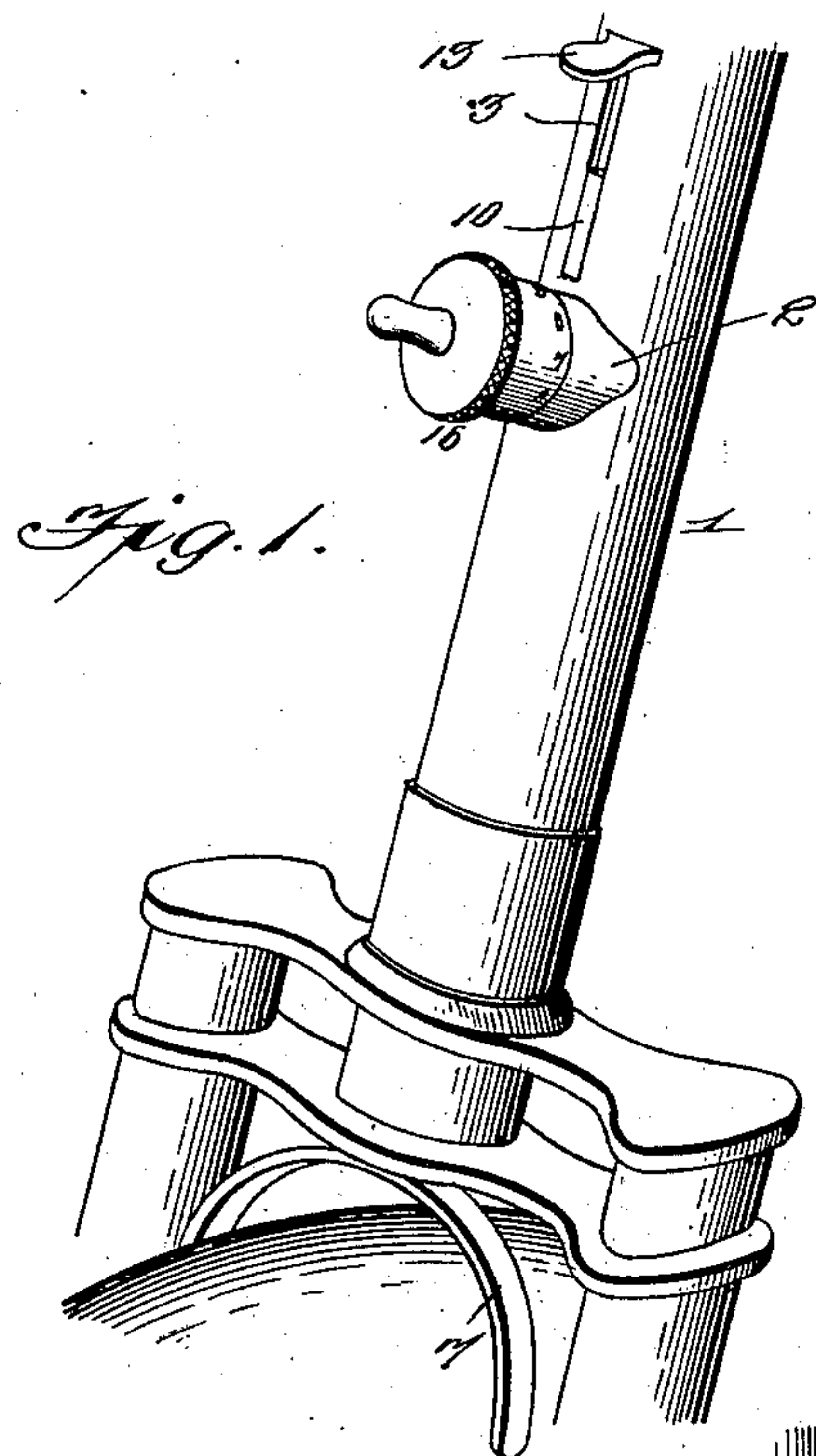
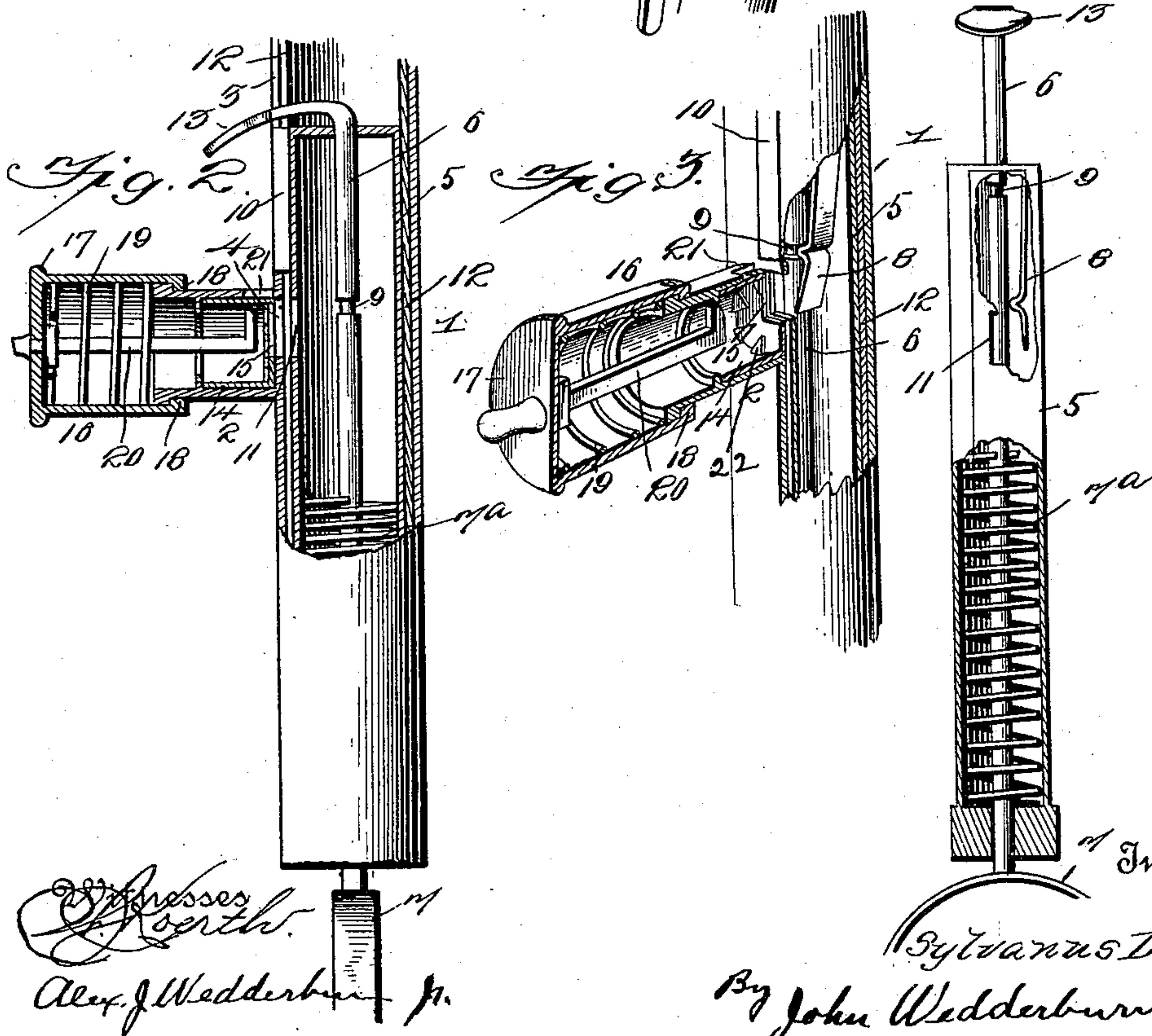


Fig. 1.

Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## BICYCLE-LOCK.

SPECIFICATION forming part of Letters Patent No. 601,599, dated March 29, 1898.

Application filed June 12, 1897. Serial No. 640,427. (No model.)

*To all whom it may concern:*

Be it known that I, SYLVANUS D. TALBERT, of Ouray, in the county of Ouray and State of Colorado, have invented certain new and useful Improvements in Bicycle-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in locks for bicycles, the object of the same being to provide a lock of this character comprising a sliding rod having a yoke which is pressed upon the wheel of the bicycle, said rod being inclosed within a casing provided with a spring-catch which engages a notch or recess in the rod in connection with a device operated upon a combination to release the catch, all as will be hereinafter fully described in the following specification and the novel features of construction set forth in the appended claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view showing the operation of my invention. Fig. 2 is a vertical sectional view through the lock. Fig. 3 is a detail view of the device for releasing the sliding rod. Fig. 4 is a detail view of the sliding rod and tube which contains the same, a part of the lock being broken away to show the location of the spring which retracts the rod and catch that holds it projected.

Referring to the drawings by numerals, 1 designates a tube or support for the lock, from one side of which projects a short tube or cylinder 2, and above this cylinder the tube is provided with an open-ended slot 3. The supporting-tube at the center of the cylinder which projects therefrom is provided with a vertical slot 4, through which passes the key or device for tripping the catch hereinafter described. Within the supporting-tube is located a second tube 5, which is provided with a cap at each end, said caps having a central opening through which passes a rod 6, to the lower end of which is attached a yoke 7, said yoke being located beyond the lower end of the supporting-tube. This rod is retracted by means of the helical spring 7<sup>a</sup>, that encircles the same and bears upon the

cap at the lower end of the inclosing tube, the other end of the spring being secured to the rod. Within the inclosing tube 5 is a spring-catch 8, adapted to engage a notch or recess 9 in one side of the rod when the latter is projected, the catch having a head presenting an inclined surface, as shown. The inclosing tube for the sliding rod is preferably open on one side and covered by a strip, as shown, the said strip being formed with a spline or feather 10, which engages the handle-bar tube and open-ended slot in the upper end of the supporting-tube to hold the said inclosing tube against rotation therein. In addition to this spline or feather the covering-strip for the inner tube has a slot 11 on a line with the head of the catch to permit the passage of the key for tripping said catch, the slot being on a line with the vertical slot 4 in the supporting-tube. A tube 12 is slid into the supporting-tube to present a slot which limits the upward movement of the sliding rod, the latter having an operating-handle 13, which projects beyond said slot.

From the foregoing it will be noted that when the sliding rod is forced beyond the lower end of the tube the yoke will be pressed upon the tire of the wheel and held in this position by the catch, which engages therewith. This will prevent the wheel turning and will form an effective lock for the bicycle. Now when it is desired to release the sliding rod or locking-bar the spring-catch is pushed to one side or disengaged from the rod, which is retracted by the action of the helical spring. In connection with this particular device for locking a bicycle I provide a key or combination attachment for releasing the spring-catch 8.

Mounted within the cylinder or tube 2 is a tumbler 14, presenting an inner end wall having a slot 15, which is adapted to register with the slot in the supporting-tube when the tumbler is turned to the proper position, said inner end wall being also provided with radial lugs 22 for engagement with the key in turning the tumbler. A second tumbler 16 is placed over the tube and is provided at its outer end with a cap 17, which projects beyond the cylindrical portion of the tumbler and is milled to facilitate turning the same. The supplemental tube and its tumblers con-



stitute a keyway and a keyhole-guard. The tumbler 14 guards the keyhole leading to the cylinder 5. The outer tumbler 16 is provided with an inwardly-extending peripheral flange 18, which embraces or engages an outwardly-extending flange on the outer end of the tube 2, the parts being normally separated by means of an interposed helical spring 19. The outer tumbler carries a key 20, the inner end of which is turned at an angle and is of the same size as the slots in the supporting-tube and inner tumbler to pass therethrough when said slots are brought to register. The key 20 is adjustable with relation to the tumbler 16 by means of a check or adjusting nut on the key, said nut being adapted to be screwed against the inner side of cap 17. By this means the key may be adjusted to suit the different combinations desired. Around the circumference of the inner tumbler is a series of numerals or marks, which appear through a sight-opening 21 in the cylinder or tube 2, and in conjunction with these numerals or marks the outer tumbler is also provided with a series. The operation of releasing the catch is had by pressing the outer tumbler in engagement with the inner tumbler and turning the parts until the numeral or mark upon the inner tumbler corresponding with the slot therein is brought on a line with the sight-opening, after which the outer tumbler is turned until the lug or inner end of the key is brought in proper position to pass through the registering slots, the position being determined by the marks on the said outer tumbler. This provides a combination device for releasing the catch and one which cannot well be manipulated unless the operator is familiar with the combination.

A bicycle-lock constructed in accordance with my invention is very simple and cheap in construction and also possesses the advantage of being effective in operation. It will also be observed that the lock can be quickly manipulated to engage a wheel of the bicycle and for this purpose is rigidly connected to a part of the frame and so located that the yoke will properly engage the tire. When the combination is properly worked and the key pushed inward, it will release the catch, and the locking-bar or sliding rod will be automatically released from the wheel.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a lock for bicycles, a cylinder, a plunger working in said cylinder, a spring to hold said plunger normally retracted, a catch on the cylinder for holding the plunger projected,

a yoke on the plunger for engagement with the wheel of a bicycle, a tube projecting from the cylinder, a tumbler working in said tube, a second tumbler telescoped by said tube, and a key located in the outer tumbler for operating the latch.

2. In a lock for bicycles, a cylinder, a plunger working in said cylinder, a supporting-tube, a tube in said supporting-tube having a slot to limit the upward movement of the plunger, a tube projecting from the cylinder, a tumbler working in said tube and provided with lugs for engagement of a key, an outer tube or tumbler telescoped by said first-mentioned cylinder, a key engaged by and operating said outer cylinder, a spring to hold the outer casing retracted, and slots in the inner tumbler and supporting-tube adapted to register with each other and permit insertion of the key to release the latch.

3. In a lock for bicycles, the combination of a supporting-tube having a cylindrical portion projecting therefrom, said tube being provided with a slot at the inner end of the cylinder, a sliding rod or locking-bar located within the tube and provided with a part to engage a wheel of the bicycle, and a catch or equivalent device engaging the sliding rod or locking-bar; together with means for tripping the catch consisting of an inner tumbler having a slot adapted to register with the slot in the supporting-tube, and an outer tumbler carrying a key which passes through the slot when the said tumbler is turned to a certain position, substantially as shown and for the purpose set forth.

4. In a lock for bicycles, the combination with a sliding rod supported within a tube or other housing to engage a wheel of the bicycle, and a spring-catch engaging the rod to hold it projected; together with a combination device for tripping the catch consisting of a tumbler having a slot which is adapted to register with the slot in the supporting-tube, a second tumbler carrying a key the inner end of which is shaped to correspond with the slots, and lugs carried by one part to engage corresponding recesses in the other part, the tumblers having numerals or marks to indicate the relative position of the slot and key, substantially as shown and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

SYLVANUS D. TALBERT.

Witnesses:

C. O. SNARR,  
R. U. SMITH.