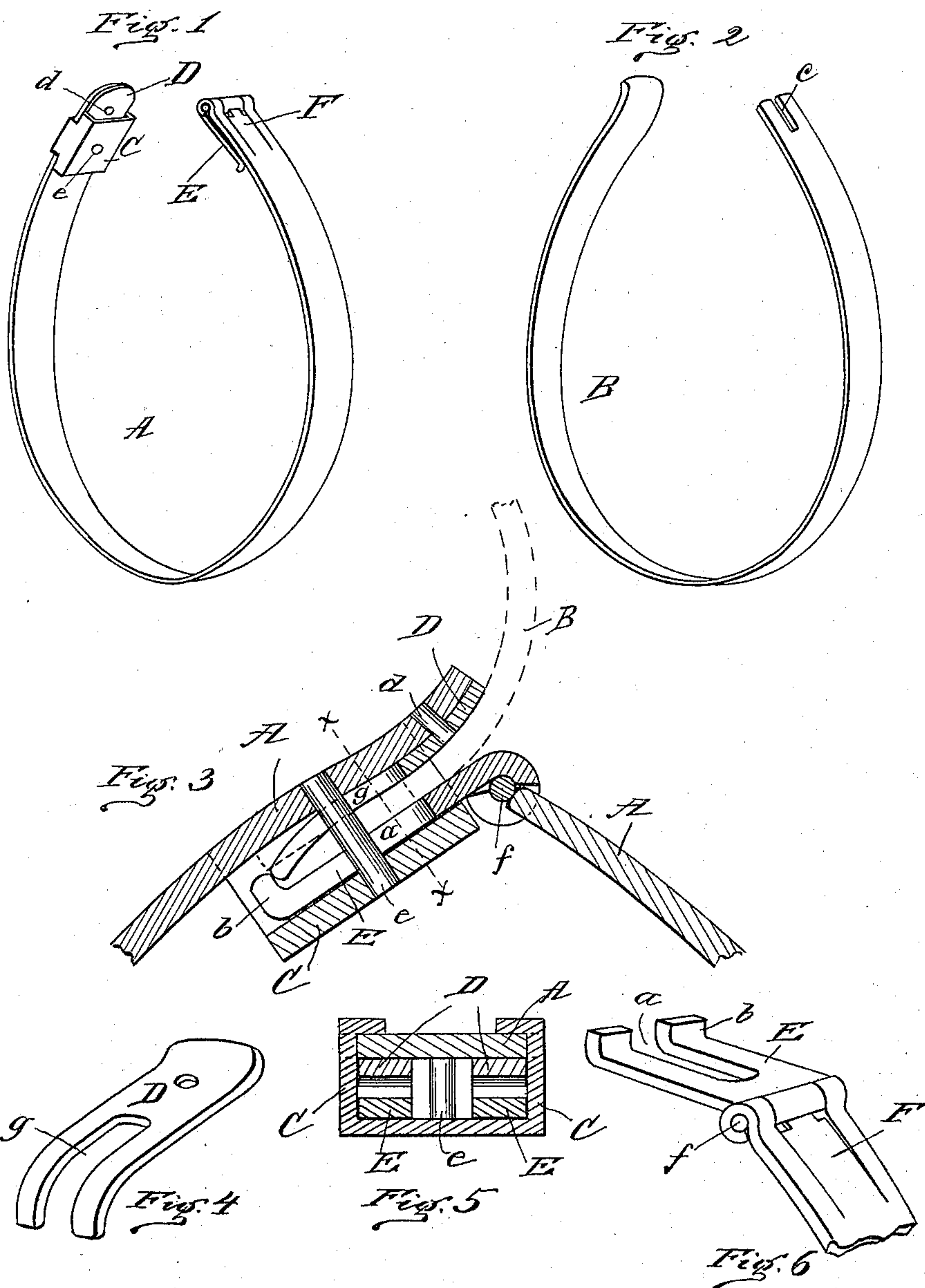


(No Model.)

J. J. DEAL.  
BICYCLE LOCK.

No. 598,475.

Patented Feb. 1, 1898.



WITNESSES  
*Theo. Miller*  
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Attorney



# UNITED STATES PATENT OFFICE.

JOSIAH J. DEAL, OF CANTON, OHIO, ASSIGNOR OF THREE-FOURTHS TO A. H. DIEBOLD AND C. N. VICARY, OF SAME PLACE.

## BICYCLE-LOCK.

SPECIFICATION forming part of Letters Patent No. 598,475, dated February 1, 1898.

Application filed April 8, 1897. Serial No. 631,234. (No model.)

*To all whom it may concern:*

Be it known that I, JOSIAH J. DEAL, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have invented a new and useful Improvement in Bicycle-Locks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in bicycle-locks; and it consists of certain features of construction and combination of parts by which there is attached to the ordinary trousers-guard adapted to be used in riding a bicycle a simple means of locking the ends thereof together, so as not to interfere with their use as a trousers-guard and yet at the same time form a complete, safe, and practical operative bicycle-lock, as will be hereinafter more fully set forth and described.

Figure 1 is a perspective view of the bicycle trousers-guard with the locking device attached thereto. Fig. 2 is a perspective view of a trousers-guard having the key on one end thereof. Fig. 3 is a sectional view showing the ends of the trousers-guard locked together and in dotted lines the position of the key when inserted in the lock. Fig. 4 is a perspective view of the spring-tumbler. Fig. 5 is a sectional view from X to X, showing the position of the parts when locked together. Fig. 6 is a perspective view of the hinged bolt.

Similar letters of reference refer to similar parts.

A represents a trousers-guard which consists of a piece of flat spring-steel bent practically circular in form, and upon one end there is attached a spring-tumbler D by means of rivets *d*, and upon the inner end of the spring-tumbler D there is cut the slot *g*. Over and around the spring-tumbler D there is placed the casing C, which is attached to the guard by means of the rivet *e*, which passes up through the slot *g* in the spring-tumbler D and terminates in the outer side of the trousers-guard. Upon the opposite end of the trousers-guard there is attached, by means

of a hinged connection thereto, the bolt E, having turned upon its inner end the prongs *b* and *b* and having cut from its inner surface the longitudinal slot *a*, adapted to pass around the rivet *e* in the lock and engage with the spring-tumbler D.

F is a spring cut from the guard and adapted to hold the hinged bolt in engagement with the end of the guard when not in use.

B represents another trousers-guard, upon one end of which there is the key provided with the slot *c*, adapted to pass the rivet *e* in the lock, engage with and raise the spring-tumbler D, and release the bolt E, permitting the same to be withdrawn.

When in use as a trousers-guard, the hinged bolt E is folded back upon the inner side of the trousers-guard, and the same can then be used without in any way interfering with its usual and ordinary functions. When the rider has dismounted and desires to lock the bicycle, trousers-guards are removed from the legs and the one containing the lock is placed around and over the portions of the bicycle sought to be locked together. The hinged bolt is inserted in the lock when it engages with the spring-tumbler, and the ends of the trousers-guards are securely locked together. To unlock the same, the key is inserted into the lock, engaging with and raising the spring-tumbler, which permits the hinged bolt to be withdrawn therefrom.

Having thus fully described my invention, what I desire to claim and secure is—

The combination of a trousers-guard, with a spring-tumbler lock attached to one of the free ends thereof, and a hinged bolt attached to the other, and adapted to engage the spring-tumbler, and lock the ends of the guard together, substantially as described and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 24th day of March, A. D. 1897.

JOSIAH J. DEAL.

Witnesses:

CHAS. R. MILLER,  
BURT A. MILLER.