

No. 698,714.

Patented Apr. 29, 1902.

W. KLEES.
BICYCLE LOCK.

(Application filed Nov. 12, 1901.)

(No Model.)

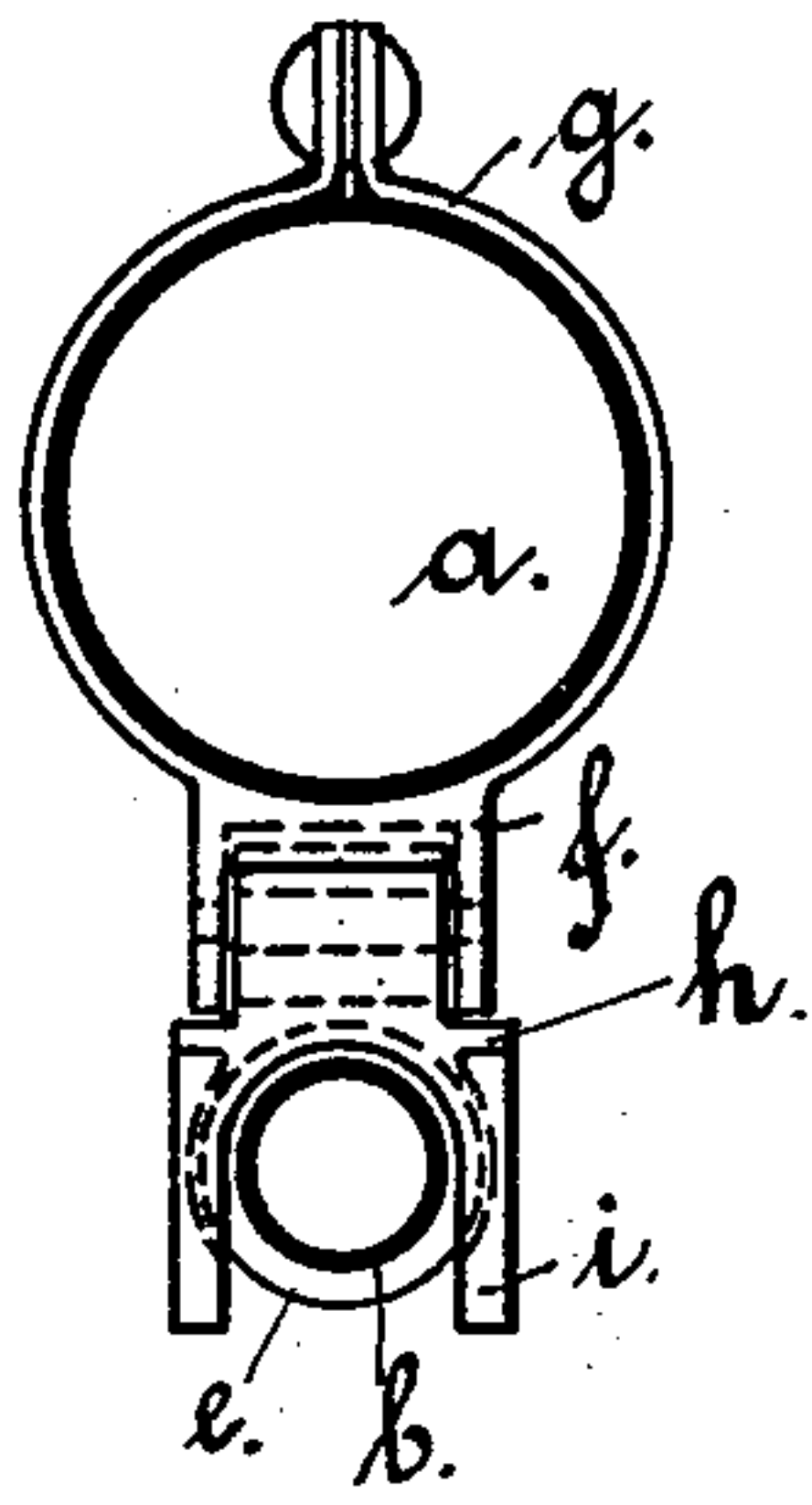


Fig. 2.

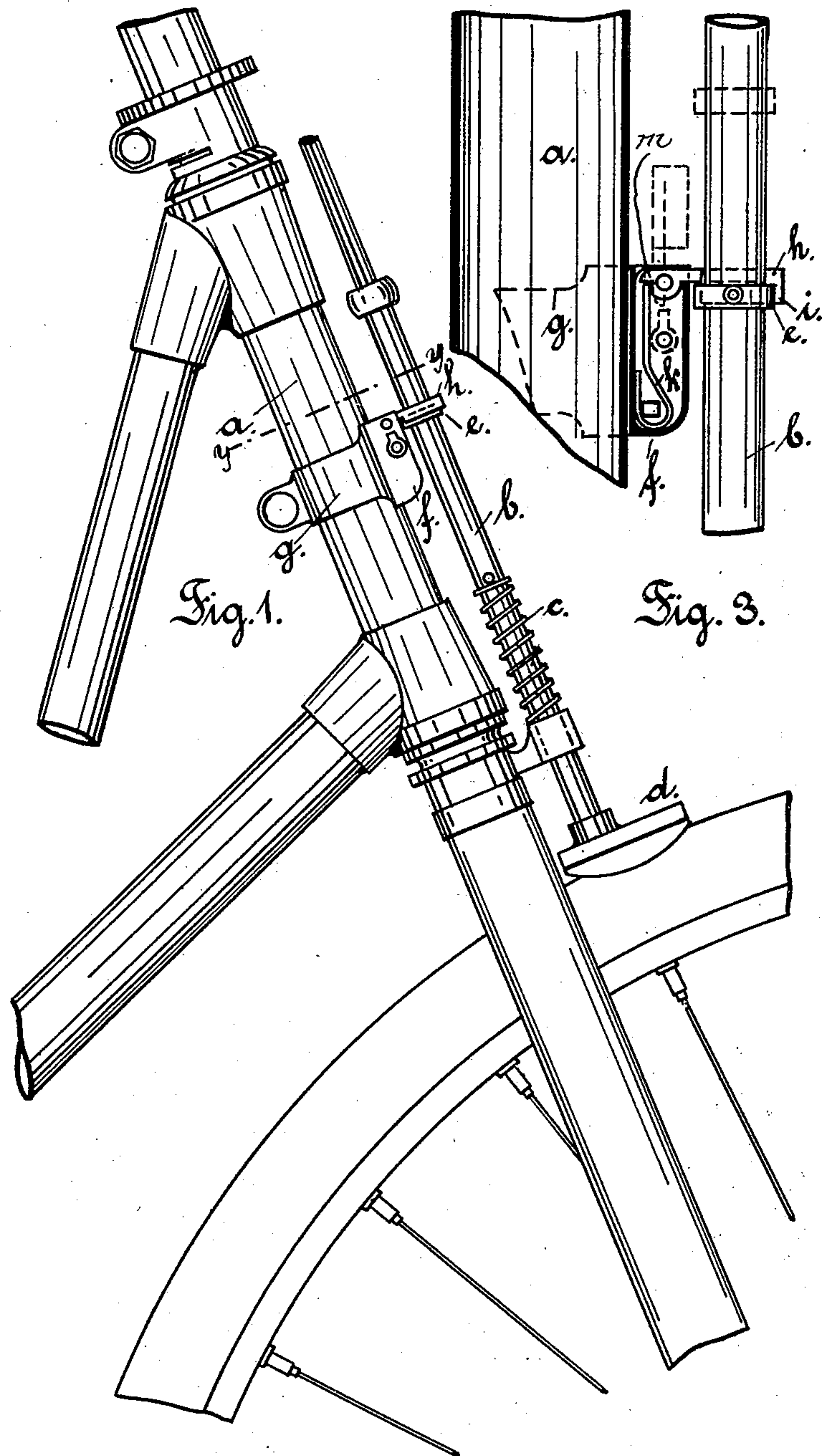
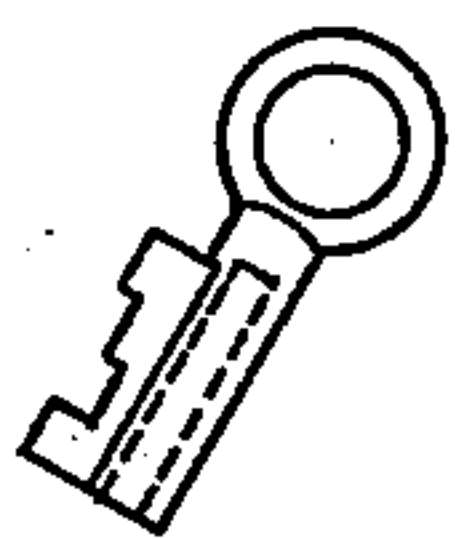


Fig. 1.

Fig. 3.

Fig. 4.



Witnesses:
Adolf Holländer.
Karl Schulte.

Inventor:
Wilhelm Klees
by *Ernst Peters.*
attorney.

UNITED STATES PATENT OFFICE.

WILHELM KLEES, OF MAGDEBURG, GERMANY.

BICYCLE-LOCK.

SPECIFICATION forming part of Letters Patent No. 698,714, dated April 29, 1902.

Application filed November 12, 1901. Serial No. 82,015. (No model.)

To all whom it may concern:

Be it known that I, WILHELM KLEES, merchant, a subject of the King of Prussia, Emperor of Germany, residing at 16 Junkerstrasse, Magdeburg, Kingdom of Prussia, German Empire, have invented a new and useful Contrivance for Securing Cycles, of which the following is a specification.

The object of my invention in question is a contrivance to prevent cycles from being stolen or exchanged. Its manner of operation consists, on the one hand, of the known principle of fastening the fork of the front wheel, and, on the other hand, it combines with this a fixing of the front wheel. Both with the help of the brake the novelty of this contrivance lies in the manner of operation and construction of the apparatus, as shown in the accompanying drawings by Figures 1 to 4.

Fig. 1 shows the contrivance in action on the frame-pipe *a* of a cycle. Fig. 2 is a horizontal sectional view on line *y y*, Fig. 1. Fig. 3 is a view of the brake-rod and frame-pipe with the lock applied to the latter, the dotted lines showing the fork of the lock in its inoperative position. Fig. 4 is a view of the key for operating the lock.

It shows *a* the frame, and *b* the known brake-rod with its spring *c* and the brake-foot *d*. On this brake-rod is a little steel ring *e*, pushed on it and securely fastened at the suitable spot. On the frame *a* the proper apparatus is situated. This has a small box-like part *f*, which is securely fastened in a suitable manner to the steering-rod *a*, here, for instance, by a clamping-ring *g*. In the upper part of this box *f* moves on a bolt riveted in it a short fork *h* at ninety degrees parallel and at right angles to the frame-pipe *a*. The fork *h* has on its underneath part a greater thickness *i* with a circular opening corresponding to the steel ring *e* on the brake-rod. The rear end of fork *h* within the lock-case is provided with shoulder *m* to be engaged by spring-tumblers *k* when the fork is in engagement with the brake-rod. When the fork is out of engagement with

said brake-rod in inoperative position, as shown in dotted lines in Fig. 3, the spring-tumblers *k* engage the rear rounded end of said fork and hold it in such position. The fork can only be pushed back when a suitable key, like Fig. 4, presses back the spring-tumblers *k*.

This contrivance works as follows: After the brake *b* has been in the usual manner lowered by means of the brake-lever, so that the foot *d* of the rod *b* presses on the wheel, the fork *h* (see the dotted lines, Fig. 3) is then turned down, whereby the brake-rod *b* is held between it, and the part *i* fastens around the steel ring *e*, while the small tumblers *k* engage the shoulder *m*. The brake comes into action and it is not possible to turn the wheel or to steer the cycle; besides, because of the thicker part *i* it is quite impossible to force the brake-rod out of the fork *h* and a removal or driving the cycle is absolutely out of question. If now a proper key is put into the apparatus, then the fork *h* is unfastened by turning, and the spring of the brake then throws up the brake-rod *b* and the fork *h* in its inoperative position, by which the cycle is free.

What I do claim as my invention, and desire to secure by Letters Patent, is—

The combination with a frame of a bicycle, a brake-rod provided with a brake, a ring or collar *e* secured to said brake-rod, a lock-casing clamped to the frame of a fork pivoted to said lock-casing adapted to embrace the brake-rod and engage the collar *e* thereon, spring-tumblers *k* within said casing adapted to engage the shoulder *m* on the rear end of the fork *h* and hold the fork in locked position and also engage the rear end of said fork and hold it in unlocked position, substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILHELM KLEES.

Witnesses:

L. PALMER,
ERICK PETERS.