

No. 712,809.

Patented Nov. 4, 1902.

R. KLEIN.

DEVICE FOR CLEANING HUBS OF CYCLE WHEELS.

(Application filed July 14, 1902.)

(No Model.)

2 Sheets—Sheet 1.

FIG.1.

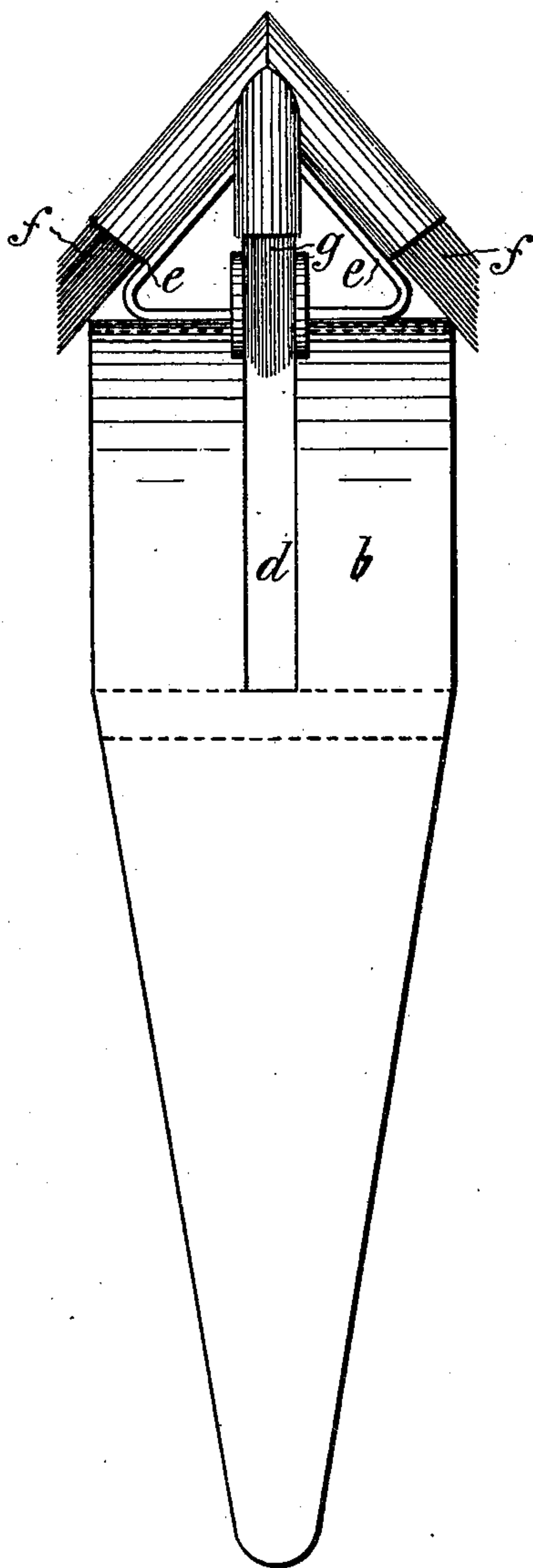
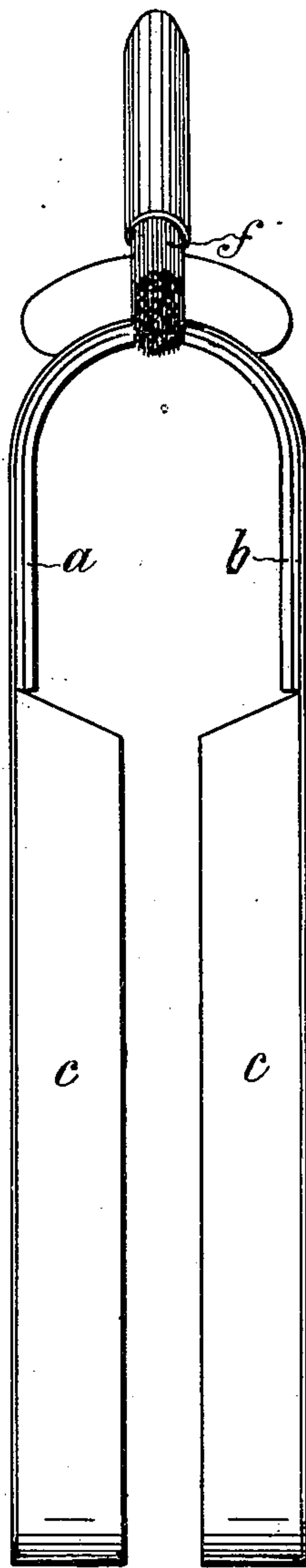


FIG.2.



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FIG. 3

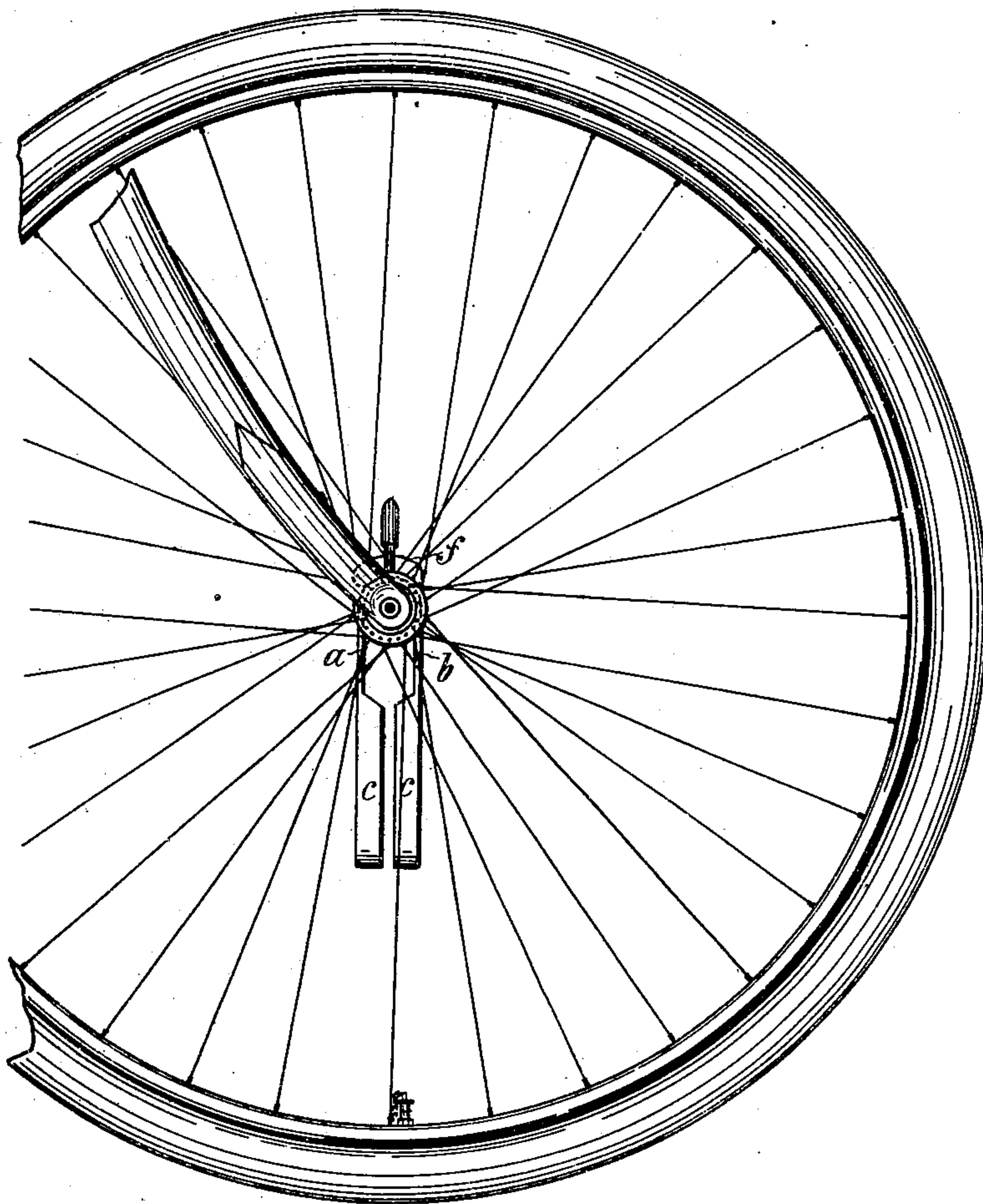
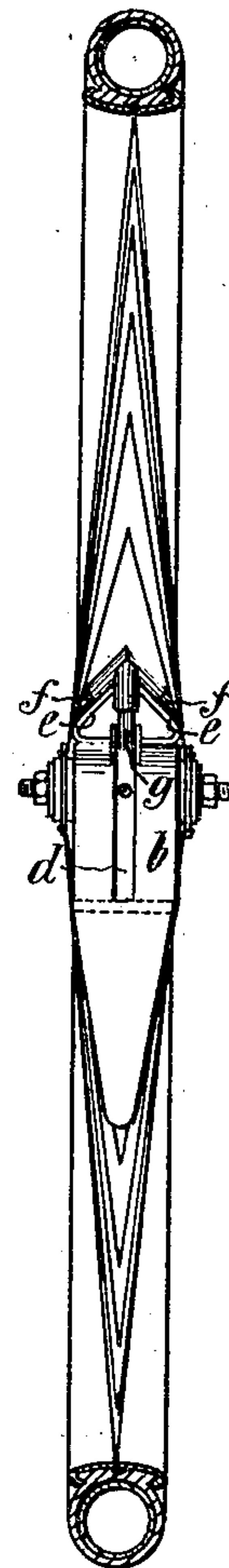


FIG. 4



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UNITED STATES PATENT OFFICE.

ROBERT KLEIN, OF HAYNAU, GERMANY.

DEVICE FOR CLEANING HUBS OF CYCLE-WHEELS.

SPECIFICATION forming part of Letters Patent No. 712,809, dated November 4, 1902.

Application filed July 14, 1902. Serial No. 115,471. (No model.)

To all whom it may concern:

Be it known that I, ROBERT KLEIN, a subject of the King of Prussia, Emperor of Germany, residing at Haynau, Silesia, in the Kingdom of Prussia and Empire of Germany, have invented a new and useful Device for Cleaning the Hubs of Cycle-Wheels, of which the following is a specification.

My invention relates to an improved device for cleaning the hubs of cycle-wheels, and is more especially designed to provide for cleaning that part of the hub which is situated between the spokes of the wheel and which is accessible only with difficulty, as the spokes are very close together at the hub and also cross each other.

This hub-cleaner is illustrated in the accompanying drawings, wherein—

Figure 1 is a front elevation, and Fig. 2 a side elevation, of the same. Fig. 3 is a side elevation of a cycle-wheel, showing the cleaner applied to the hub. Fig. 4 is a transverse section of this wheel.

The device comprises a U-shaped strap *b*, which is covered upon its inner face with cloth or like material *a* and carries at the lower end of its shanks the weights *c*, designed to hold the cleaner on the hub during the cleaning operation. The strap *b* is furnished in the middle with a slot *d* to enable the oiler provided on the hub for lubricating the wheel-axle to pass in the rotation of the wheel. Upon the strap *b* I fix, by means of a holder *e*, the brushes *g*, adapted to clean that

part of the hub which is not acted upon by the strap on account of the aforesaid slot *d*, and brushes *f*, which project laterally beyond the edges of the strap in order to clean the inner ends of the spokes.

For cleaning a wheel-hub the cycle is placed upon a stand, the strap *a*, with its weights, is suspended from the hub, so that the cloth *a* bears upon the same, as shown in Figs. 3 and 4, and the wheel is turned alternately in one and the other direction.

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

1. A device of the character set forth, comprising a U-shaped strap furnished with a slot in the middle and having its inner face covered with cloth, and weights attached to the said strap, substantially as specified.

2. In a device of the character set forth, the combination of a U-shaped strap furnished with a slot in the middle and having its inner face covered with cloth, weights attached to the said strap, brushes extending into the said slot, and brushes extending sideways beyond the edges of the said strap, substantially as specified.

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

ROBERT KLEIN.

Witnesses:

LOUIS HUMANN,
ALBERT SHENK.