

(No Model.)

J. R. FREE.
INKING DEVICE FOR TYPE WRITERS.

No. 474,236.

Patented May 3, 1892.

Fig 1

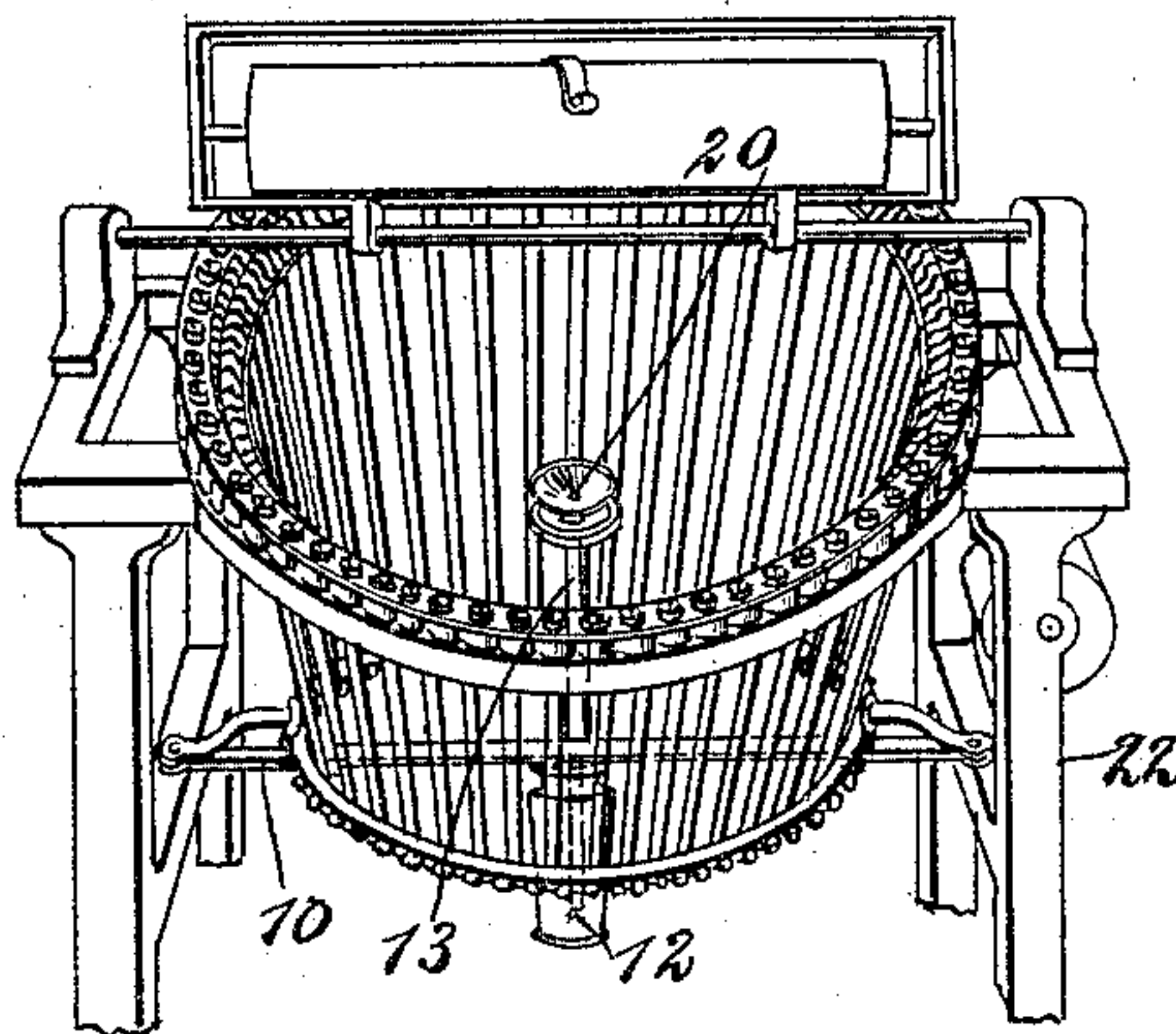


Fig 2.

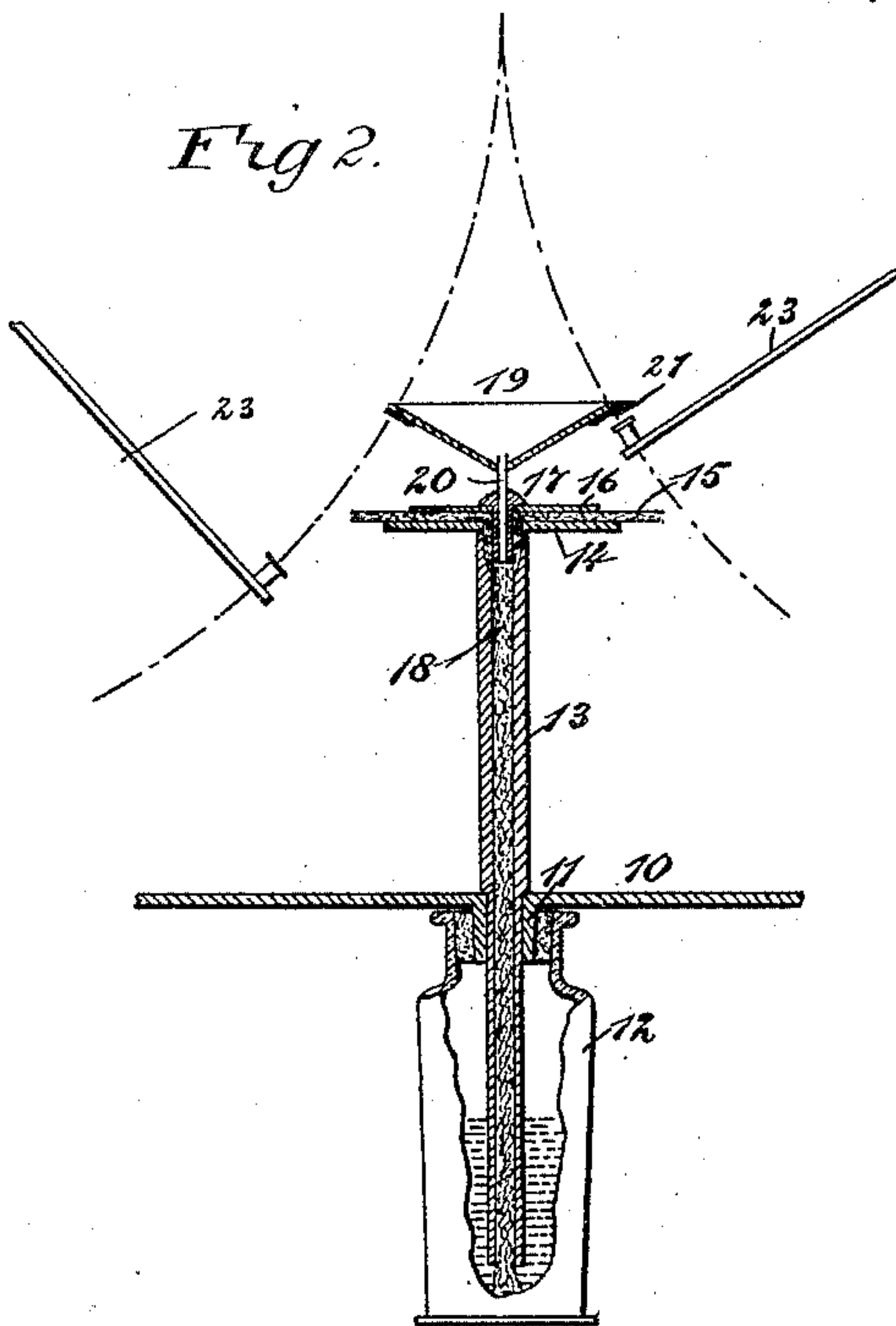
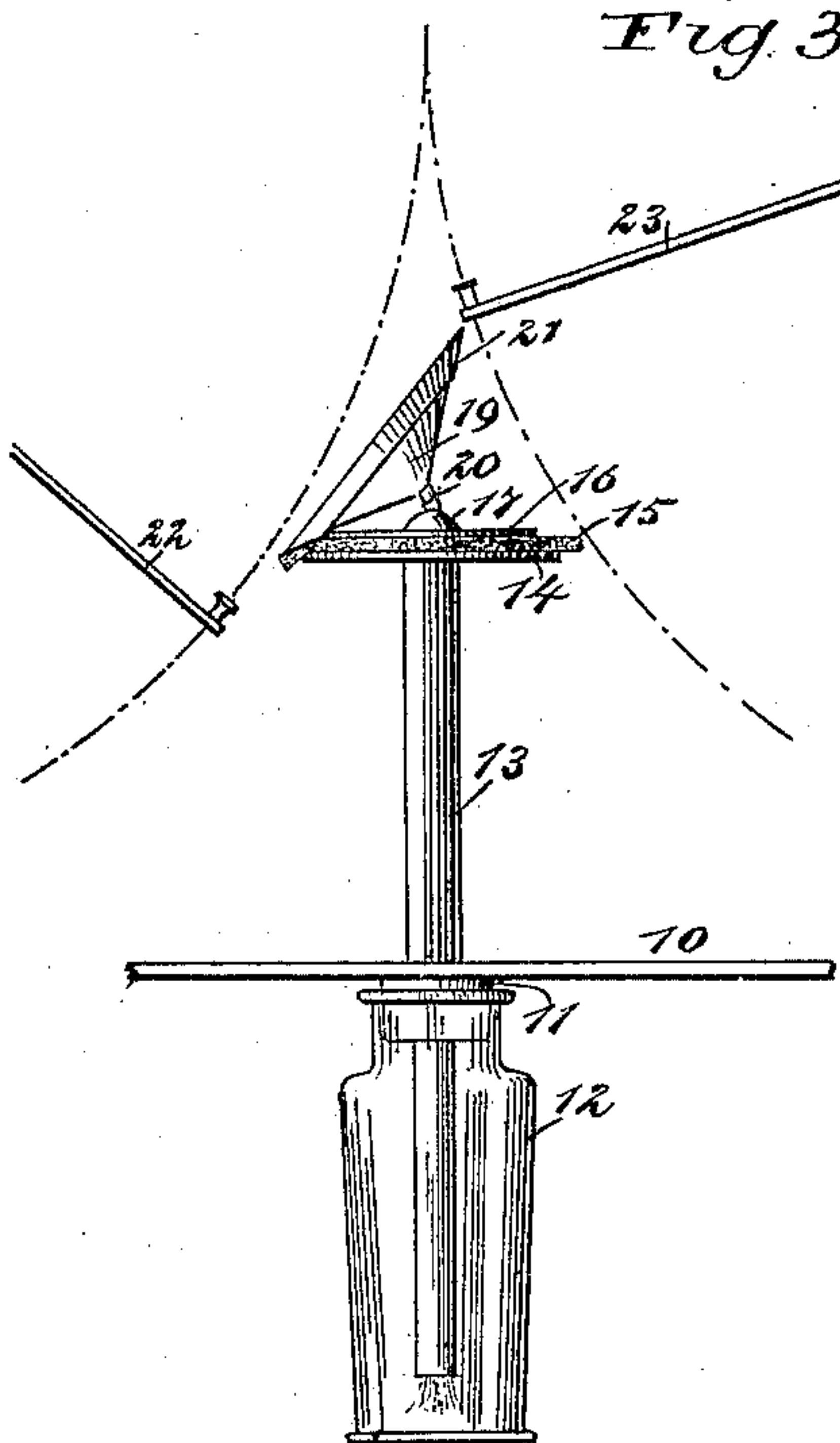


Fig 3.



WITNESSES:

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INKING DEVICE FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 474,236, dated May 3, 1892.

Application filed June 19, 1891. Serial No. 396,850. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. FREE, of Ovid, in the county of Clinton and State of Michigan, have invented a new and Improved Inking Device for Type-Writers, of which the following is a full, clear, and exact description.

My invention relates to improvements in inking devices for type-writing machines.

The object of my invention is to produce a simple device which may be quickly and easily attached to the machine, which may be applied to any kind of a type-writing machine having the type-bars arranged to strike a common center, which will thoroughly ink the type, and which will prevent the ink from coming into contact with anything except the type.

To this end my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a broken perspective view showing the application of my invention to a type-writer. Fig. 2 is a broken vertical section of the device, and Fig. 3 is a broken side elevation of the same.

What constitutes the base of the device is a cross-bar 10, which is adapted to be secured to the frame of a type-writer and which has centrally thereon a depending nozzle 11, adapted to enter the top of an ink-bottle 12. This cross-bar 10 extends centrally beneath the type-basket, and arranged vertically upon the cross-bar is a tube 13, which projects downward through the nozzle 11 and into the ink-bottle 12, and the tube is shouldered at the point where it contacts with the bar 10, so as to prevent it from dropping too far into the bottle. The top end of the tube terminates in a flange 14, which is adapted to support the inking-pad 15, and this pad is surmounted by a washer 16, which is clamped upon the pad, so as to hold it in place, by means of a hollow screw 17. The pad connects with and may be formed integrally with a wick 18, which extends downward through the tube and into the ink-bottle. Above the tube 13

is the inking-cup 19, which is of an inverted-cone shape, and the outer portion of the cup is provided with a strip 21, which carries the ink and is adapted to contact with the top of a type-bar, as shown in Fig. 2. The cup 19 is supported by means of a flexible strip 20, preferably of rubber, which strip is secured to the lower portion of the cup and extends downward into the screw 17. This enables the cup to be tilted out of the way when it is struck by a type-bar and also permits it to be tipped over, so that the strip 21 will come in contact with the pad 15. The cup 19 is made of light flexible material, preferably rubber, and the cup 19 and pad 15 are arranged so that the pad will clear the type during its upward movement, but the edge of the cup will extend into the path of the type.

The cross-bar 10 is secured in the frame of the machine, and the operation is as follows: The ink will be absorbed by the wick and pad 15, and when the machine is operated and the type-bar 23 thrown upward the type on the bar will strike the cup 19, thus receiving the ink from it, and will pass upward and strike upon the paper. When the type strikes the cup 19, the cup will be tipped over, as shown in Fig. 3, thus bringing the strip 21 in contact with the pad 15, and the device will be kept thoroughly inked.

It will be observed that the device may be secured to any kind of a type-writer having the type-bars arranged to strike a common center, and when one bottle of ink has been consumed another may be easily substituted for it.

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

1. An inking device for type-writers, comprising a tube supported centrally between the type-bars and adapted to connect at its lower end with an ink-bottle, a pad secured to the top of the tube and connected with the ink by means of a wick, and an inking-cup flexibly connected with the upper end of the tube and extending into the path of the type, substantially as described.

2. An inking device for type-writers, comprising a cross-bar adapted to be attached to a type-writer frame, a tube supported verti-

5 cally upon the cross-bar and having its lower end projecting beneath the same, a pad secured to the top of the tube and connected with a wick extending downward through the tube, and an inking-cup arranged in the path of the type and having a flexible connection with the tube, substantially as described.

10 3. An inking device for type-writers, consisting of a cross-bar adapted to extend beneath the type-basket, said cross-bar having a central depending nozzle, a tube extending

vertically through the nozzle and having a flange at its upper end, a pad secured to the top of the flange and connected with a wick which extends downward through the tube, 15 and an inking-cup flexibly connected with the top of the tube and arranged to extend into the path of the type, substantially as described.

JOHN R. FREE.

Witnesses:

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H. ANDERSON.