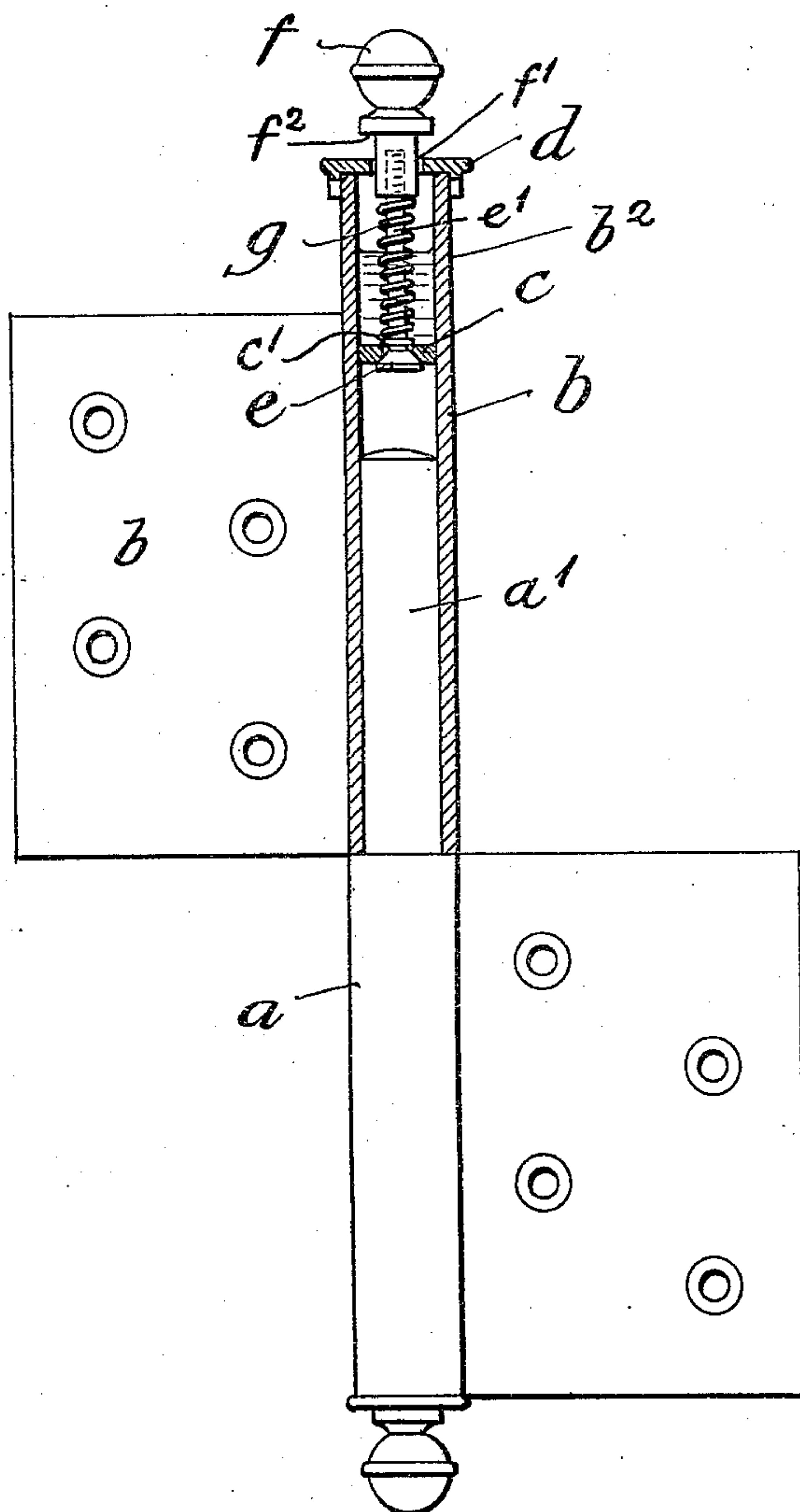


F. MEYER.
PINTLE HINGE.

APPLICATION FILED APR. 10, 1909.

931,630.

Patented Aug. 17, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

FRITZ MEYER, OF HANOVER, GERMANY.

PINTLE-HINGE.

No. 931,630.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed April 10, 1909. Serial No. 489,239.

To all whom it may concern:

Be it known that I, FRITZ MEYER, a subject of the German Emperor, residing at Hanover, in Germany, have invented certain new and useful Improvements in Pintle-Hinges, of which the following is a specification.

This invention relates to hinges, and more particularly to hinges for doors, French windows and the like, and its object is to provide improved means for lubricating hinges of this type.

The invention substantially consists in constructing a hinge with a receptacle formed by a tubular extension of the knuckle, and with a valved orifice by means of which the interior of the said receptacle can be placed in communication with the interior of the knuckle, the valve being connected to a plunger or equivalent device enabling it to be opened by hand. This arrangement enables a small quantity of a liquid lubricant placed in said receptacle to be admitted to the interior of the knuckle whenever the hinge requires lubricating. The lubricating operation can thus be performed without inconvenience and without risk of soiling the parts to which the hinge is attached.

A hinge embodying this improvement is shown in the accompanying drawing, partly in section.

The lower member a of the hinge is of the usual construction and carries the pintle a^1 . The upper member b has at the top of the tube b^1 which fits upon the pintle a^1 a tubular extension b^2 . A horizontal disk c with a central aperture c^1 is fixed inside the knuckle, a short distance above the top of the pintle a^1 , and forms the floor of a receptacle, which

is closed at the top by a cover d . The central aperture of the disk c is normally closed by a valve e formed by the enlarged head of a rod e^1 screwed into a knob f and thrust upward by a spring g bearing at its lower end on the plate c and at its upper end against the shoulder formed by the lower end of knob f , the lower end f^1 of the knob f traverses the cover d , and can be depressed by hand, for the purpose of opening the aperture. One charge of oil in the receptacle is sufficient for lubricating the hinge a considerable number of times. A shoulder f^2 limits the downward play of the knob f .

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. In a pintle hinge the combination with the upper knuckle of a lubricant receptacle formed by a tubular upward extension of the said knuckle, the said receptacle having an orifice by means of which its interior can be placed in communication with the interior of the knuckle, a valve for said orifice and means for opening the valve by hand.

2. In a pintle hinge the combination with the upper knuckle having a tubular upward extension, of a perforated plate in said extension, a stemmed valve for closing the perforation in said plate, a knob on said stem, a cap for said extension traversed by said knob and a spring between the knob and the perforated plate.

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

FRITZ MEYER.

Witnesses:

ROBT. J. THOMPSON,
LUISE KATHER.