

(No Model.)

S. STAHL.

BAND OR CORD SELF ACTING UPROLLER ON JALOUSIES.

No. 521,276.

Patented June 12, 1894.

Fig. 1.

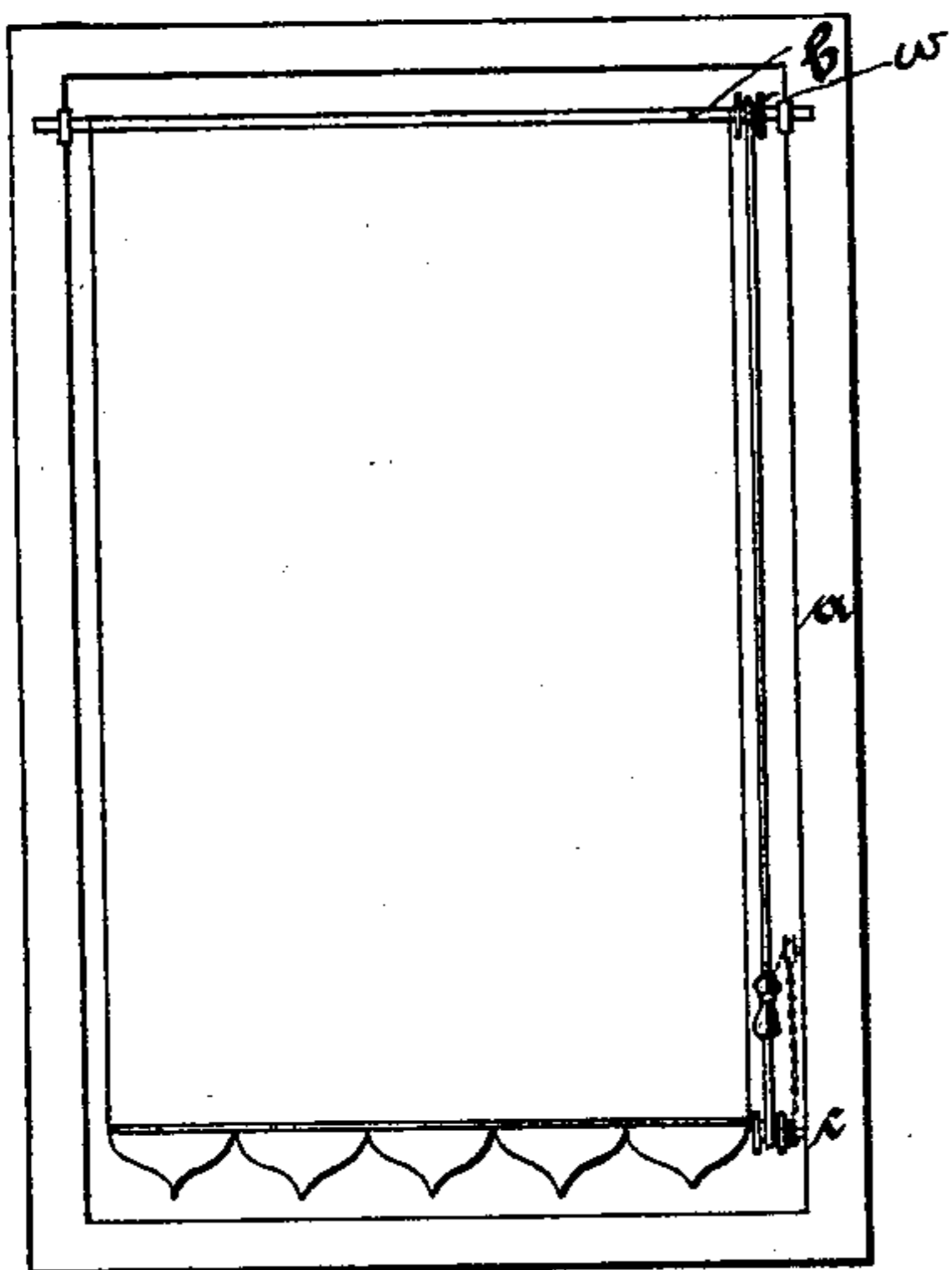


Fig. 2.

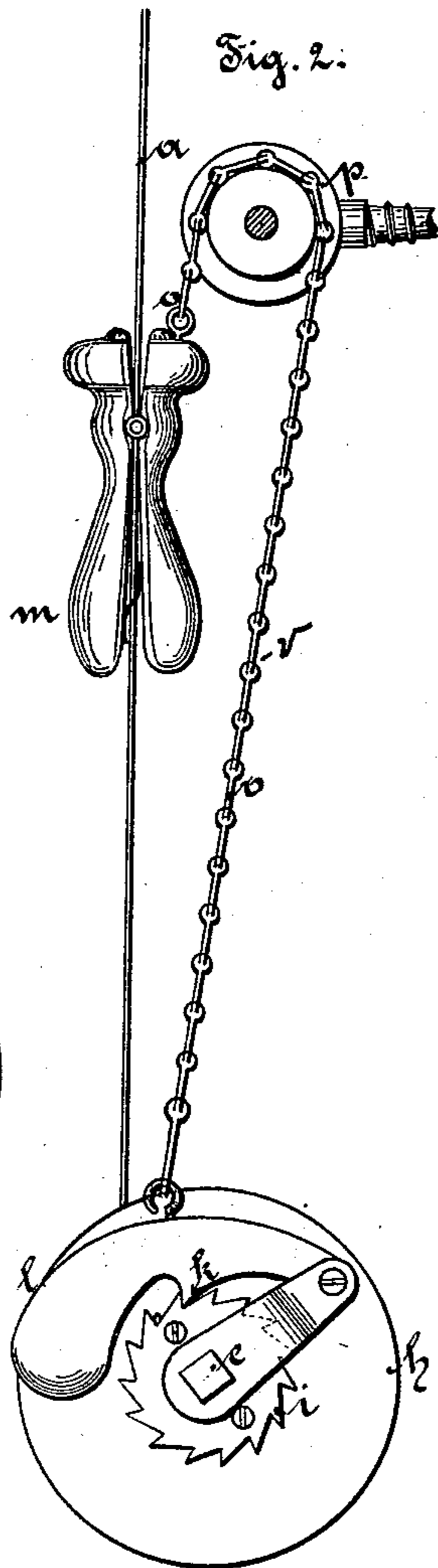


Fig. 3.

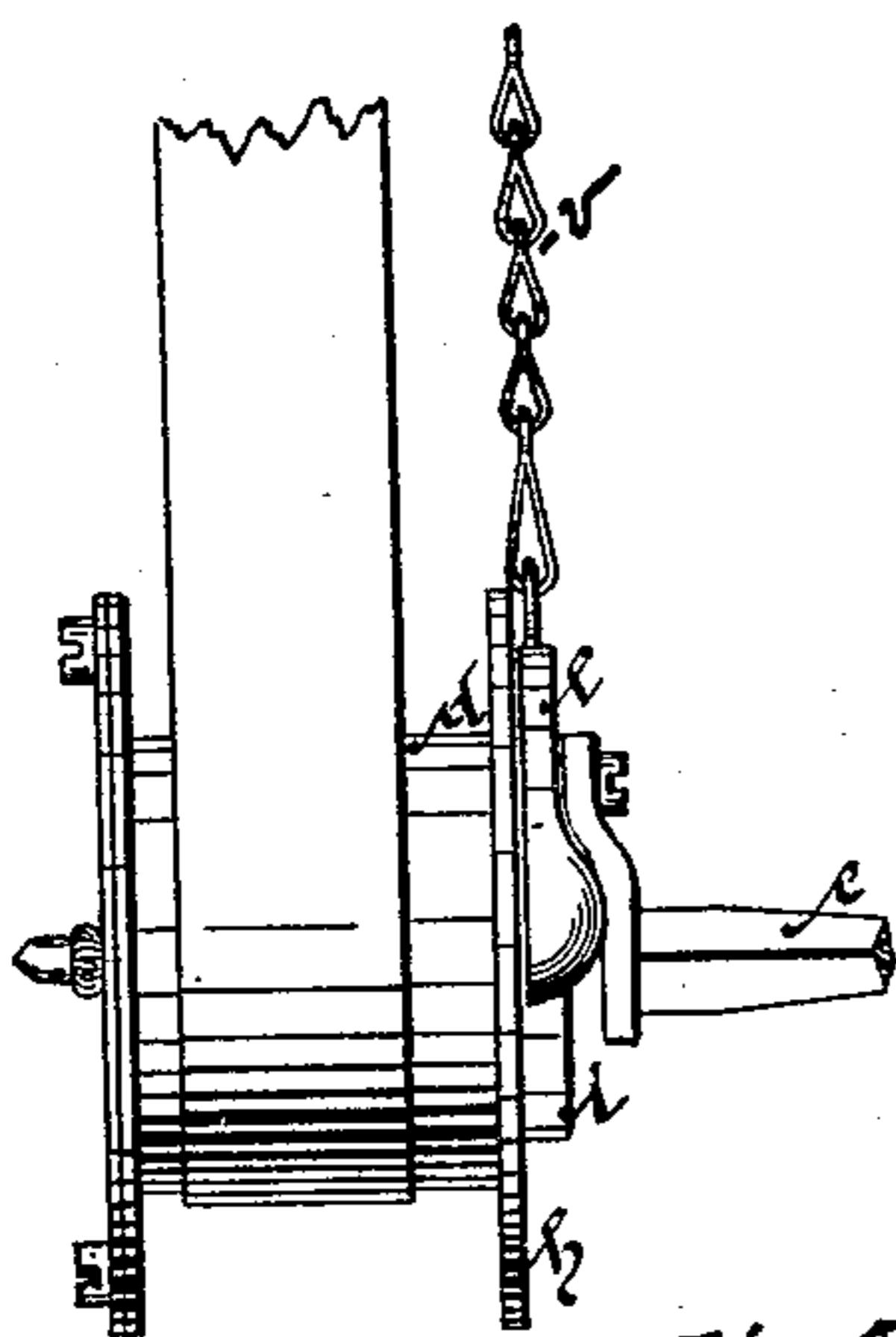


Fig. 4.

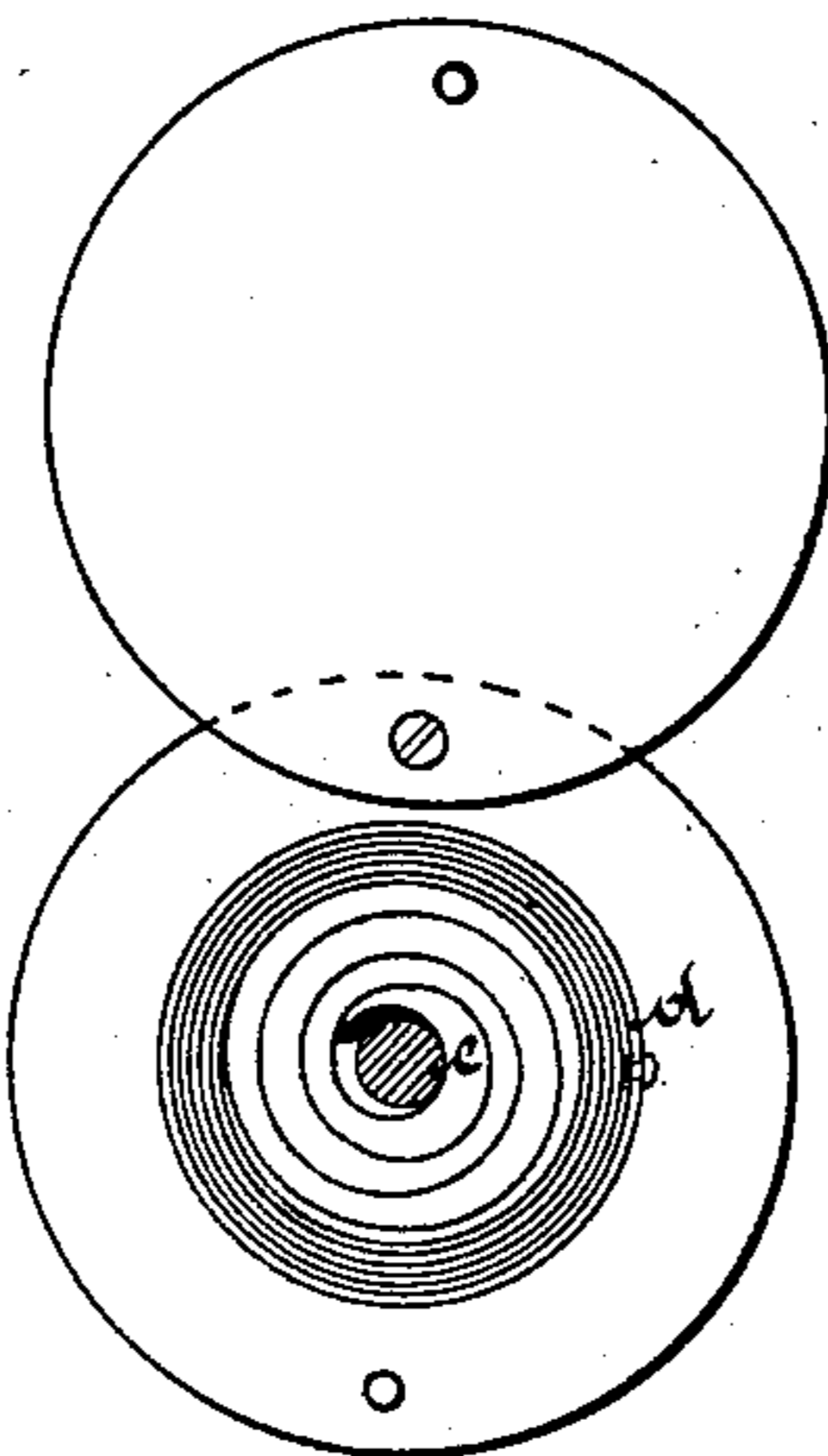


Fig. 5.

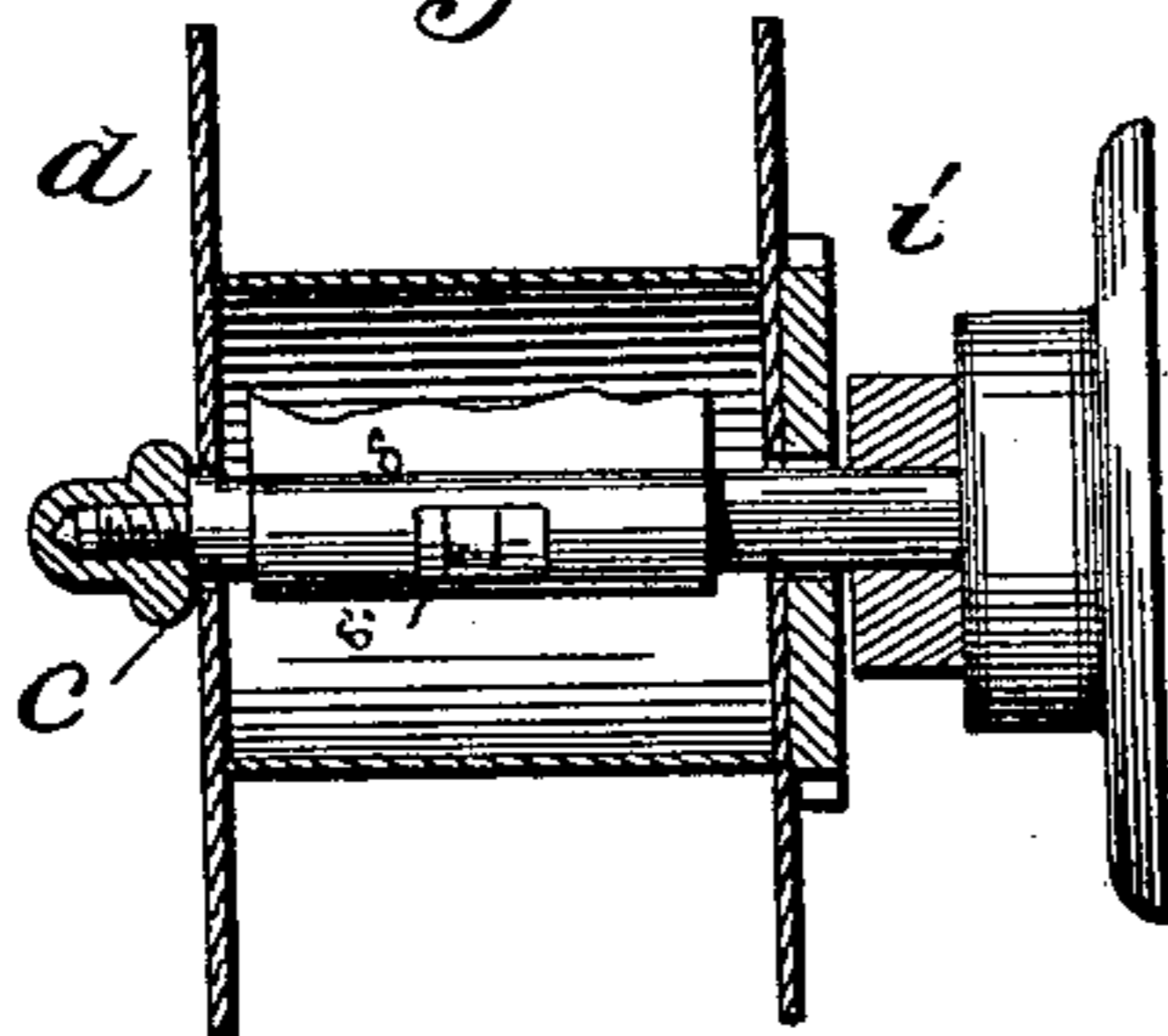
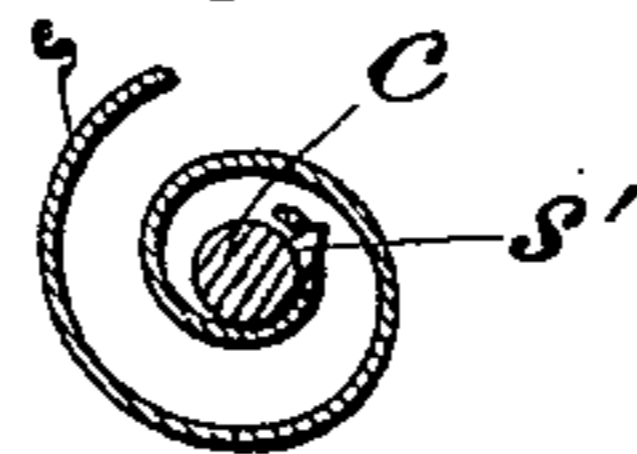


Fig. 6.



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UNITED STATES PATENT OFFICE.

SEBALD STAHL, OF NUREMBERG, GERMANY, ASSIGNOR TO HEINRICH LINDNER, OF SAME PLACE.

BAND OR CORD SELF-ACTING UPROLLER ON JALOUSIES.

SPECIFICATION forming part of Letters Patent No. 521,276, dated June 12, 1894.

Application filed March 15, 1892. Serial No. 424,974. (No model.)

To all whom it may concern:

Be it known that I, SEBALD STAHL, manufacturer, a subject of the Emperor of Germany, residing at No. 33 Zufuhrstrasse, Nuremberg, in the Kingdom of Bavaria and Empire of Germany, have invented certain new and useful Improvements in Band or Cord Self-Acting Uppers on Jalousies, of which the following is a specification.

10 The object of my invention is to provide a new and improved device for automatically winding up the band connected with a curtain, when said curtain is raised.

15 The invention consists in the combination, with an ordinary curtain-roller, of a drum fixed on the same, a band or strip fixed to said drum, a spring-drum mounted to turn on a pin projecting from the window-casing, to which spring-drum the lower end of said 20 band is fastened, a ratchet-wheel connected with the spring-drum, a pawl engaging said ratchet-wheel, a chain connected with said pawl and passed over a suitable pulley and provided with a hinged spring handle, all as 25 will be fully described hereinafter and finally pointed out in the claims.

30 In the accompanying drawings, Figure 1 is a front view of a window-casing and curtain, provided with my improved device for winding up the band attached to a curtain-roller. Fig. 2 is an enlarged detail side-view of the 35 spring-drum of the ratchet-wheel, drum and handle. Fig. 3 is a side view of the spring-drum, ratchet-wheel and pawl, and Fig. 4 is a detail view of the drum, showing the spring, the cover-plate being raised. Fig. 5 is an enlarged vertical longitudinal sectional view 40 through the drum. Fig. 6 is a detail cross sectional view through the spiral spring at the end of the same connected with fixed pins.

Similar letters of reference indicate corresponding parts.

45 The curtain is secured to a rod *b* which is mounted to turn in the top of the window-casing in the usual manner, and said rod is provided at one end with a drum *w* to which one end of the band or strip *a* is fastened. The other end of said band or strip *a* is 50 fastened to the rim of a drum *d* having end

plates *h* and mounted to turn on the pivot *c* that is driven into the side of the window-casing. Said drum contains the spiral spring *s*, the inner end of which is slitted and adapted to receive a tooth *s'* projecting from 55 the pin *c*, the outer end of said spring being fastened to the interior of the drum. A ratchet-wheel *i* is fastened to one of the side-plates *h* of the drum and is engaged by a pawl *k* pivoted to a fixed arm on the pin *c*, 60 said pawl having a weighted free end *l*. The chain *v* is fastened to the weighted pawl *k* and passes from a pulley *p* on the window-casing, and to the free end of said chain a handle *m* is fastened, which is composed of 65 two sections united by a hinge and provided with a spring for pressing the lower parts of the handles from each other, thereby pressing the upper parts against the band *a* which passes up between two sections of the handle. 70

The operation is as follows: When it is desired to permit the curtain to drop, the two handle-sections *M* are pressed together and pulled downward, so as to lift the pawl *k* and disengage the same from the ratchet-wheel *i*. 75 The curtain descends by its own weight and in so doing unwinds the band or strip *a* from the drum *d*, whereby the drum is rotated, causing the slitted end of the spring *s* to engage the tooth *s'* on the pin *c* and thereby 80 said spring is wound up and brought in tension. The descent of the curtain can be regulated by pressing the handle-sections *m* more or less together, so as to produce more or less friction on the band *a*. When the 85 curtain is to be raised, it is simply grasped at its lower end and lifted upward. The tension of the coil spring is sufficient to rotate the drum and to wind the band *a* on the same. The friction between the handle *m* and the 90 band *a* is sufficient to draw the handle *m* downward to such an extent that the pawl *k* is lifted and disengaged from the ratchet-wheel *i*, thereby avoiding the disagreeable rattling noise when the curtain is being 95 raised.

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

1. The combination with a curtain and 100

- roller, of a band having one end secured to the roller, a spring drum to which the other end of the band is fastened, a ratchet wheel on the drum, a pawl engaging the ratchet wheel, a spring brake handle through which the band passes, a chain connecting said spring brake handle with the pawl and a support over which said chain passes, substantially as set forth.
- 10 2. The combination, with a curtain and roller, of a band having one end attached to the roller, a drum to which the other end of the band is fastened, a pin on which the drum can turn, a spring-coil in said drum and
15 having one end fastened to the drum, the other end being adapted to engage a tooth on the pin, on which the drum rotates, a ratchet-wheel on said drum, a weighted pawl engaging said ratchet-wheel, a chain connected with the pawl, a pulley over which the chain passes, and a handle composed of two sections hinged together, which handle is attached to said chain and through which handle said band passes, thereby adapting said handle to serve for disengaging the pawl from the ratchet-wheel and also as a brake for the band, substantially as set forth.
- In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.
- SEBALD STAHL.
- Witnesses:
ALEX WIELE,
MAX SCHEIDIG.