

(No Model.)

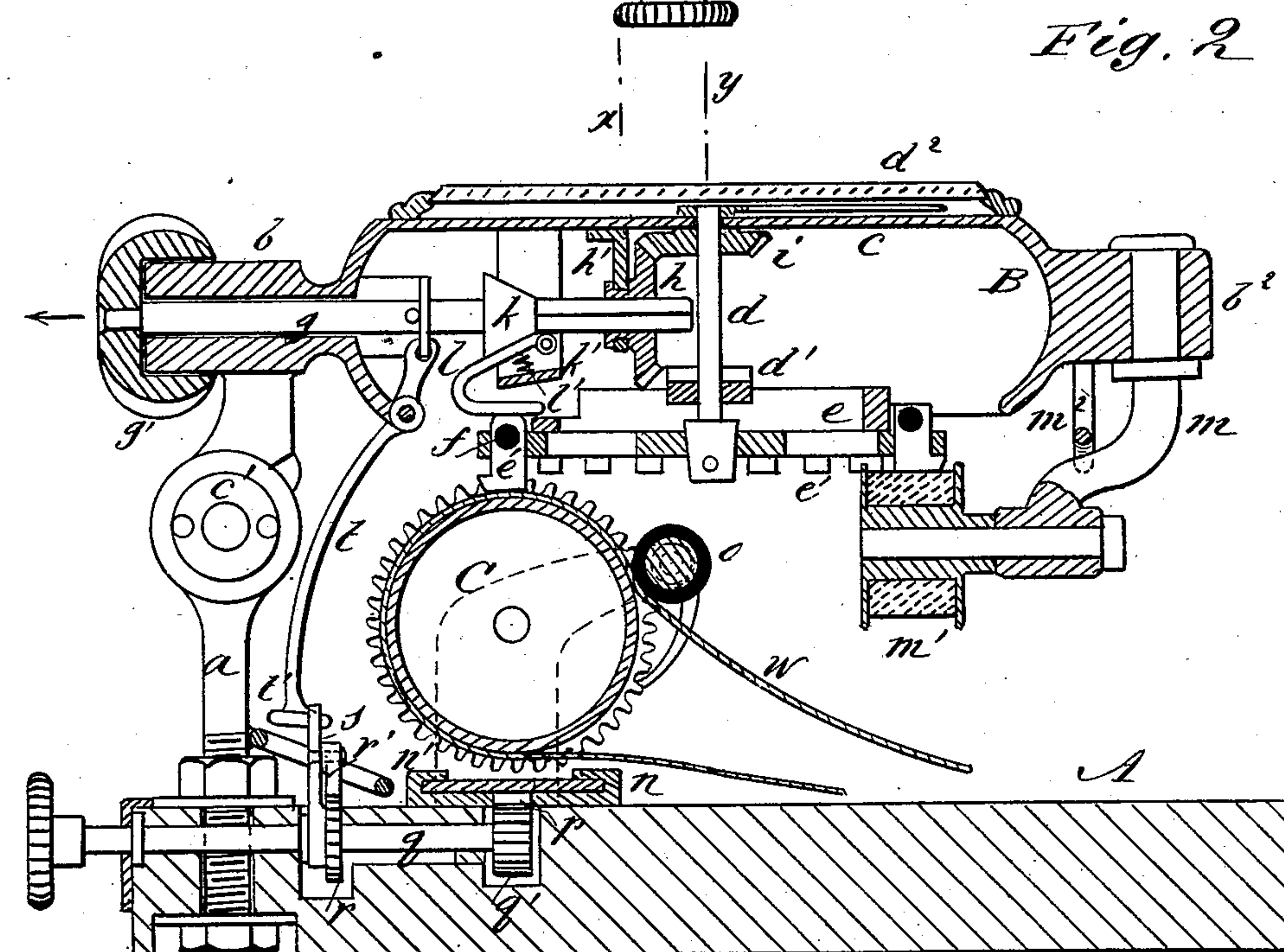
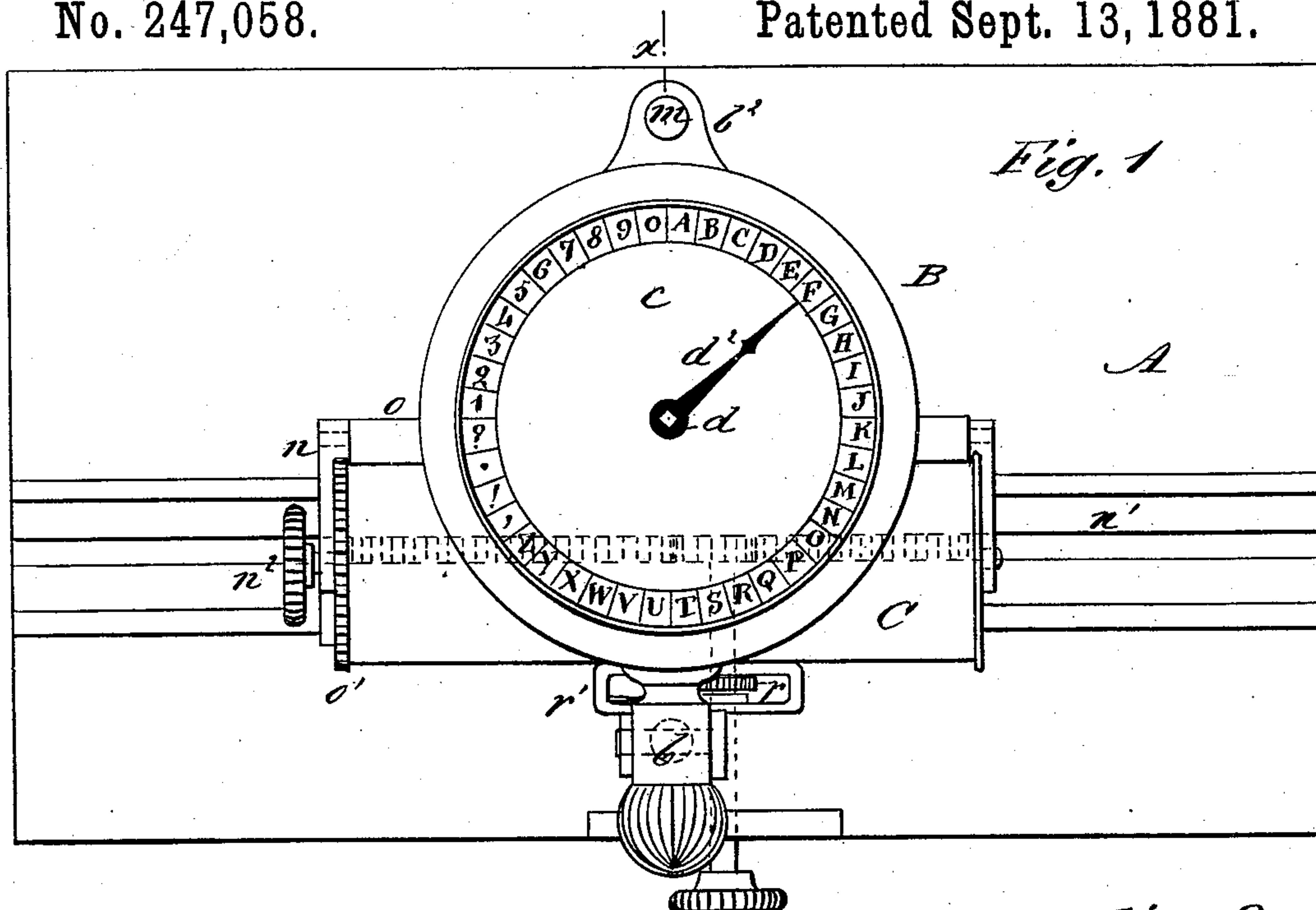
2 Sheets—Sheet 1.

G. H. HERRINGTON.

TYPE WRITER.

No. 247,058.

Patented Sept. 13, 1881.



WITNESSES:

*C. Neveu*  
*T. Sedgwick*

INVENTOR:

*G. H. Herrington*  
BY *Mum & Co*  
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

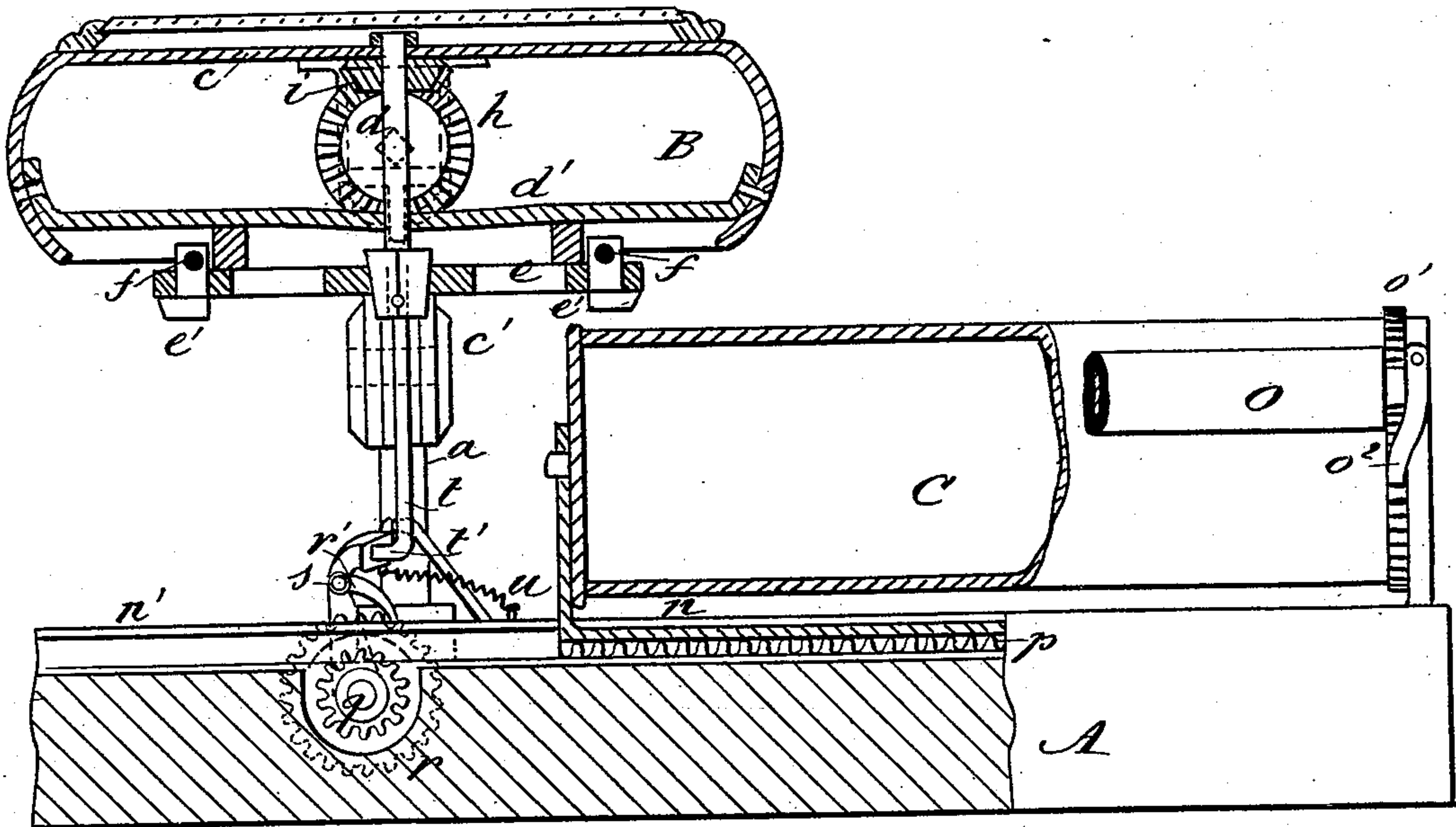
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TYPE WRITER.

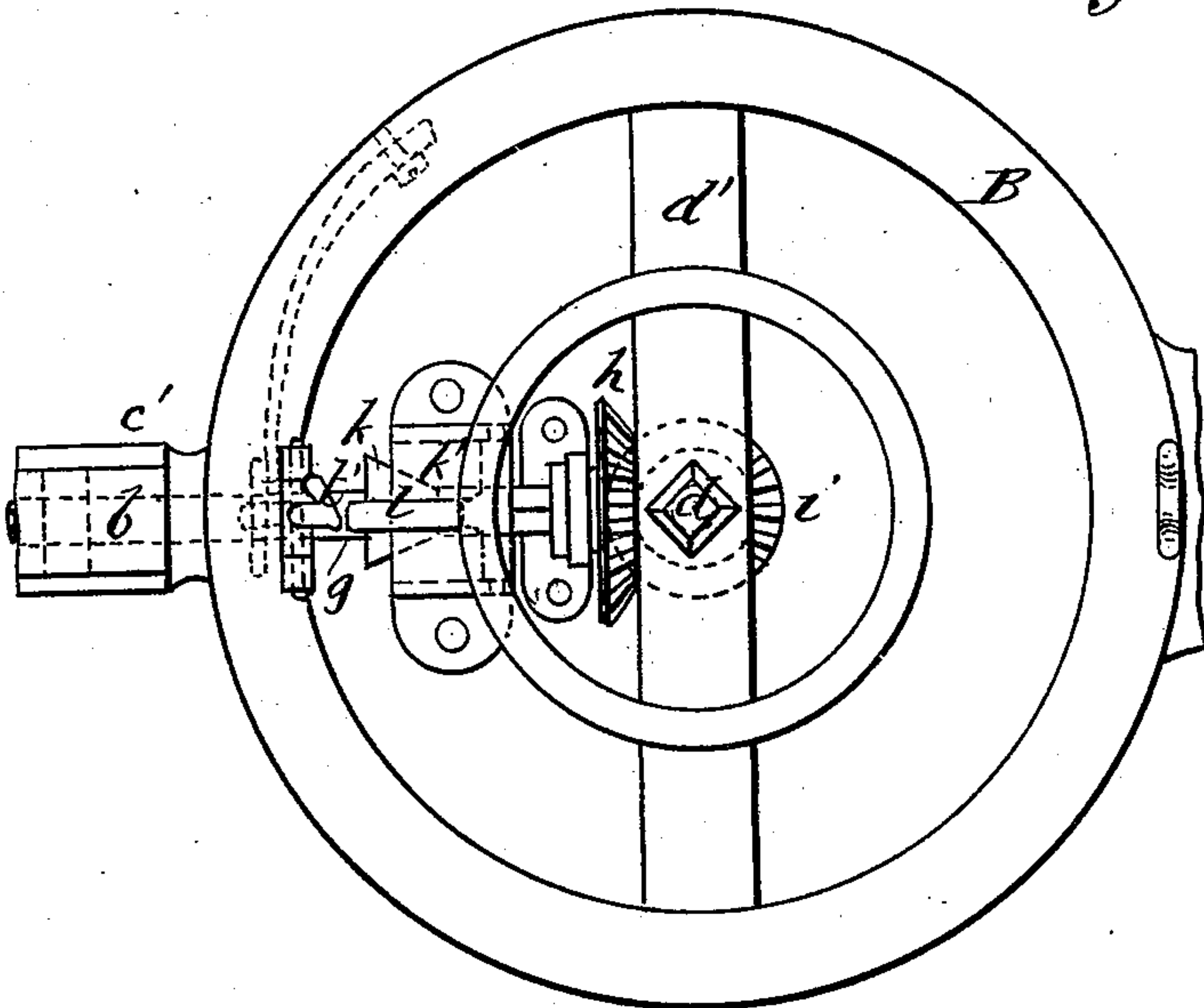
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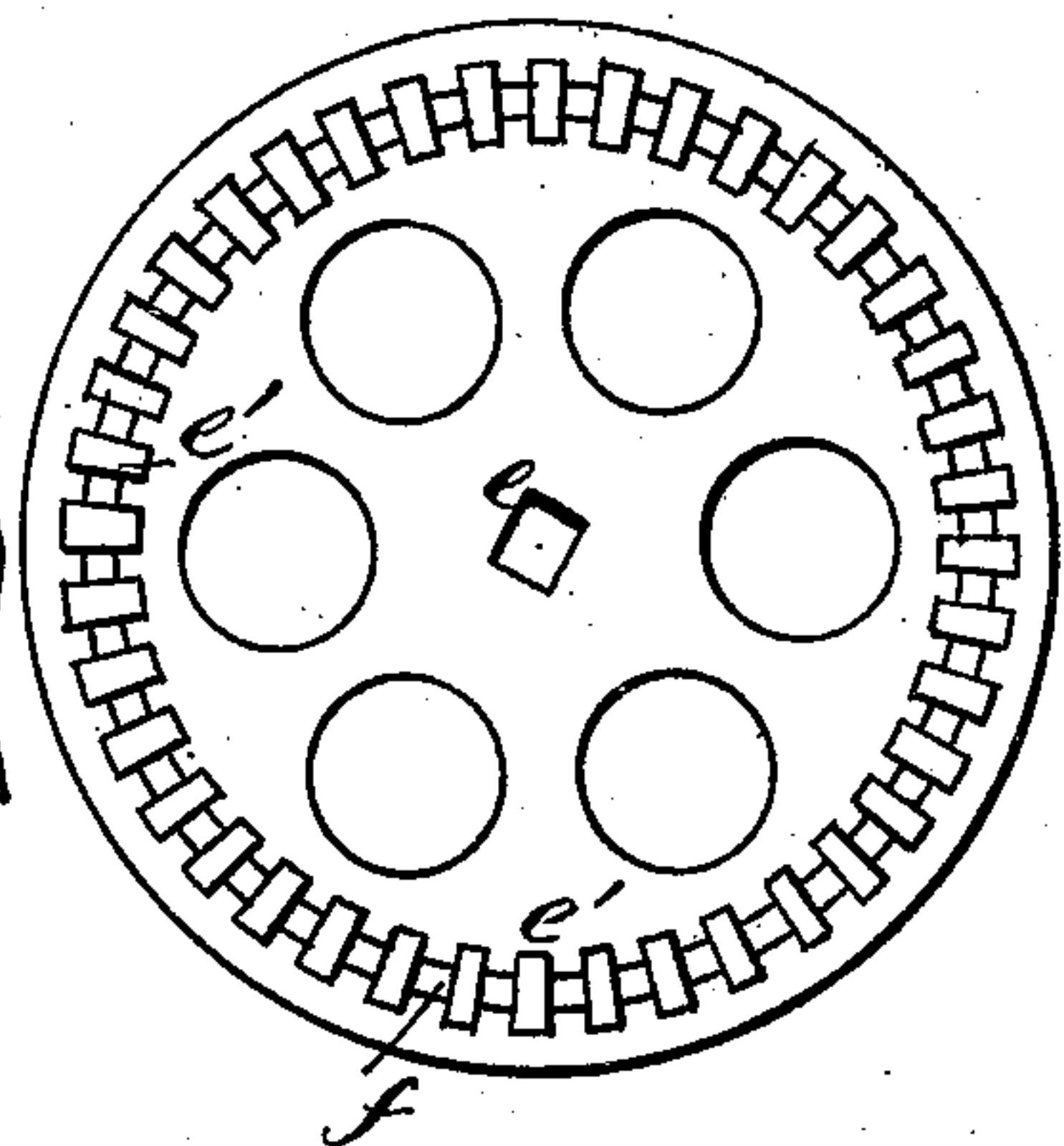
*Fig. 3*



*Fig. 4*



*Fig. 5*



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# UNITED STATES PATENT OFFICE.

GEORGE H. HERRINGTON, OF WICHITA, KANSAS.

## TYPE-WRITER.

SPECIFICATION forming part of Letters Patent No. 247,058, dated September 13, 1881.

Application filed May 9, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. HERRINGTON, of Wichita, county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Type-Writers, of which the following is a specification.

The object of my invention is to furnish type writing or printing machines occupying small space and adapted for use in banks, stores, and other places for registering time, amounts, and other information in connection with money received and paid. I make use of a dial and a type-wheel operated by a stem carrying a hand for indicating on the dial the position of the type-wheel. Combined with these is a paper-carrying cylinder fitted for rotation and transverse movement, and lever mechanism connected with the stem insures feed of the paper after each impression, all as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of the machine. Fig. 2 is a vertical transverse section on line *xx* of Fig. 1. Fig. 3 is a vertical section on line *yy* of Fig. 2. Fig. 4 is an inverted plan view of the type-wheel stand with the type-wheel removed, and Fig. 5 is a face view of the type-wheel.

Similar letters of reference indicate corresponding parts.

A is the base of the machine, on which is fixed the post *a* of the type-wheel stand.

B is a ring-shaped case formed with a tubular boss, *b*, that is connected by a knuckle-joint at *c'* to the top of the post *a*, so that the case B may be swung. This case carries a dial, type-wheel, and the mechanism for rotating the type-wheel, as next described. The upper side of the case B is fitted with a dial, *c*, the face of which is marked with letters, figures, and other characters, as desired, arranged in a circle, and the dial is preferably covered with a glass. At the center of the case is a shaft, *d*, sustained by a cross-bar, *d'*, and fitted on its upper end above the dial with a hand or pointer, *d<sup>2</sup>*. On the lower end of the shaft is fixed the type-wheel *e*, that is formed near its outer edge with slots, in which the types *e'* are held by an elastic ring, *f*, that passes through the types above the wheel. The types are thus rendered capable of movement vertically, and the elastic band will act

to raise them after an impression. The case B is also fitted with a radial stem or shaft, *g*, passing through boss *b*, and fitted at its outer end with a finger-knob, *g'*. The inner end of this shaft is squared and extends through the hub of a bevel-pinion, *h*, that is sustained by a hanger, *h'*, so that the shaft is allowed endwise movement and will turn the pinion. On shaft *d* is fixed a bevel-pinion, *i*, meshing with pinion *h*. On the shaft *g* is fixed a conical roller or pulley, *k*, and beneath the cone, on a hanger, *k'*, is hung an arm or plate, *l*, that extends to or near the type-wheel just above the line of types, where the plate is held by a spring, *l'*, fitted on the hanger. These devices are for forcing the types down, which is effected by endwise movement of the shaft, as hereinafter described. At one side of case B is an arm, *m*, pivoted in a boss, *b<sup>2</sup>*, and carrying an ink-roller, *m'*, beneath the type-wheel. The arm *m* is retained in this position by a friction spring or stud, *m<sup>2</sup>*, against which it impinges, which allows the arm to be turned outward for inking the roller.

C is the paper-cylinder, hung in a slide, *n*, that is fitted in a slideway, *n'*, extending across the base A beneath case B.

*o* is an elastic roller fitted in arms from slide *n*, so that the roller is held close to one side of the cylinder.

*n<sup>2</sup>* is a finger knob on the shaft of the cylinder for turning the same to feed the paper.

*o'* is a ratchet-wheel on one end of the cylinder engaged by a pawl, *o<sup>2</sup>*, for preventing back movement.

*p* is a rack fixed beneath slide *n* and engaged by a pinion, *q'*, on a shaft, *q*, that is fitted in the base for movement by hand to slide the paper-cylinder to position.

*r* is a ratchet-wheel fixed on shaft *q*.

*s* is an arm, loose on shaft *q* and carrying a pawl, *r'*, that engages ratchet *r*.

*t* is a lever hung on case B, having one end connected with or fitted for movement by the type-wheel-operating shaft *g*, and formed at its lower end with an incline, *t'*, that bears on the arm *s*, so as to move pawl *r'* in direction for turning ratchet *r*.

*u* is a spring fitted to draw back the pawl *r'* after each movement.

In operation, the paper to be printed upon



is placed around the cylinder C and beneath roller *o*, as shown at *w*, and the slide *n* is then moved to position to bring the end of the cylinder beneath the type-wheel and impression-plate *l*. These operations are facilitated by turning the case B back on its hinge *c'*. The stem or shaft *g* is then turned by means of its knob, and the desired letter or character brought beneath plate *l*. The hand *d*<sup>2</sup> serves to guide the operator, being for that purpose arranged to indicate on the dial the type that is beneath the plate *l*. The desired letter being in place, the stem *g* is then pushed inward, plate *l* is thus forced down by the cone *k*, and the type pressed upon the paper. The stem is then drawn out, allowing the plate *l* and type to rise, and at the same time, by movement of lever *t*, the arm *s* is carried forward, and the pawl *r'*, acting on ratchet-wheel *r*, turns shaft *q* and moves the slide *n* and cylinder C the distance required to give space between the letters. In this manner the printing is done in one line as long as desired. For a second line the cylinder is to be turned by means of its knob *n*<sup>2</sup>, the paper thus fed forward, and the slide is moved to bring the edge to its first position.

This machine can be readily placed for use on a counter or other place, and used to register the time of payments and amounts of money paid out or received. It can also be used for other purposes of similar nature. The construction is simple and inexpensive, and the operation can be rapidly and conveniently carried out. The type-wheel may be fitted so as to be readily removed for substitution of another with other characters or letters.

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

1. The ring-shaped case B, carrying the dial, type-wheel, and rotating mechanism, and having a tubular boss, *b*, connected by a knuckle-joint with the top of post *a*, to allow said case to be swung to and from the platen, substantially as described.

2. In a type-writer, the combination, with the ring-shaped case B, provided with tubular boss *b*, hinged to the post *a*, of the dial *c*, the shaft *d*, hand *d*<sup>2</sup>, type-wheel *e*, provided with movable type *e'*, the pinions *i h*, and the shaft *g*, extending through the said tubular boss and provided with the knob *g'*, substantially as and for the purpose set forth.

3. In type-writers, the type-wheel *e*, provided with movable type, the setting-shaft *g*, fitted for endwise movement, cone *k*, and pivoted spring-plate *l'*, substantially as shown and described, for operation as set forth.

4. In type-writers, the apertured type-wheel *e*, fitted with types *e'*, and elastic band *f*, substantially as shown and described.

5. In a type-writer, the combination, with the case B, the setting-shaft *g*, the arm *s*, provided with the pawl *r'*, the spring *n*, and the ratchet *r* on the shaft *q*, of the lever *t*, having an incline, *t'*, at its lower end, substantially as and for the purpose set forth.

6. In a type-writer, the combination, with the case B, the setting-shaft *g*, and the slide *n* of the paper-cylinder C, provided with the rack *p*, of the lever *t*, arm *s*, pawl *r'*, spring *n*, ratchet *r*, shaft *q*, and pinion *q'*, substantially as and for the purpose set forth.

GEORGE HUMPHREY HERRINGTON.

Witnesses:

CHARLES HATTON,  
W. P. CAMPBELL.