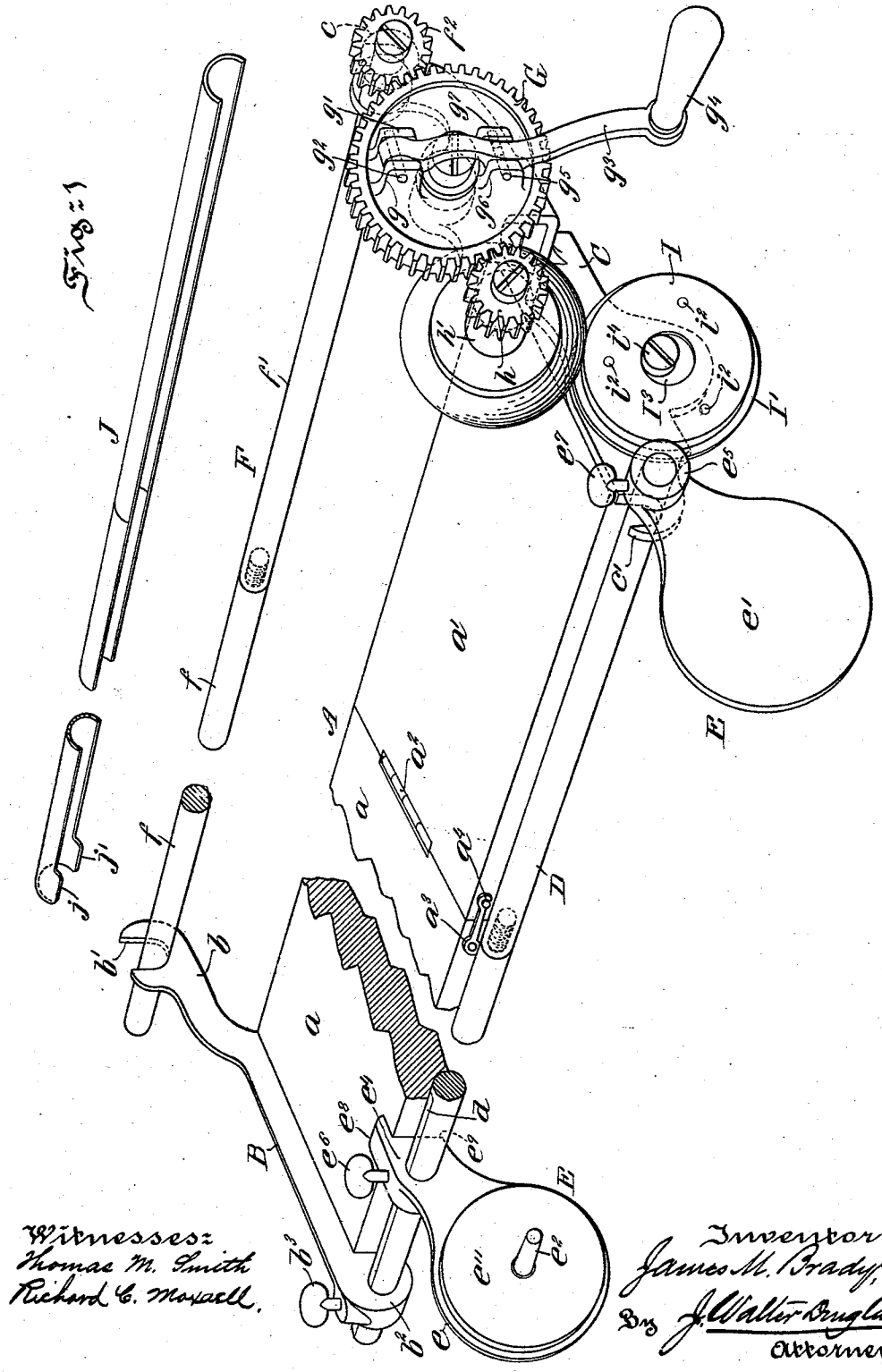
(No Model.) 4 Sheets—Sheet 1.

J. M. BRADY.

MACHINE FOR TRIMMING WALL PAPER.

No. 536,011. Patented Mar. 19, 1895.



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(No Model.) 4 Sheets—Sheet 2.

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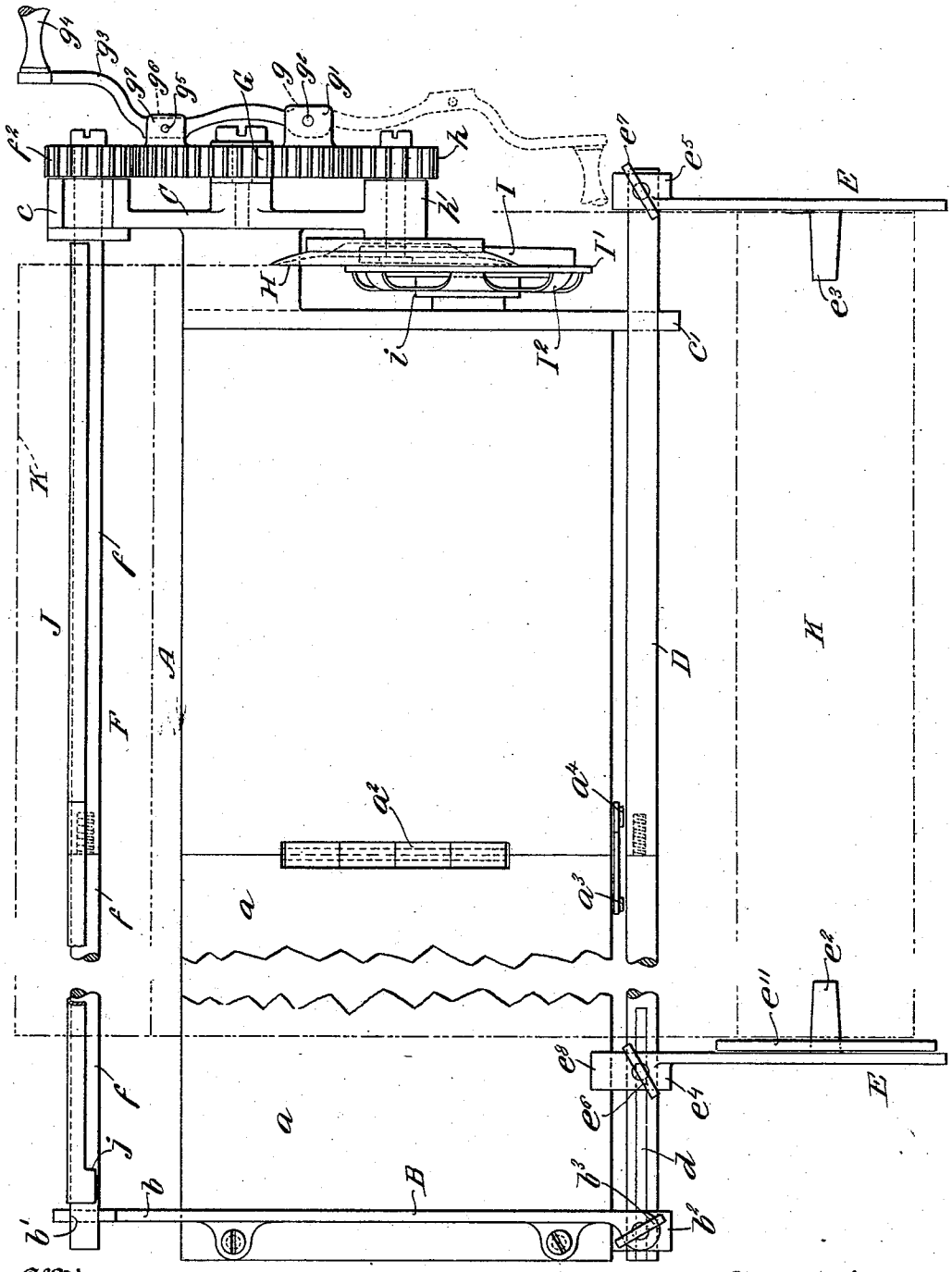

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Fig. 2.

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Fig. 4

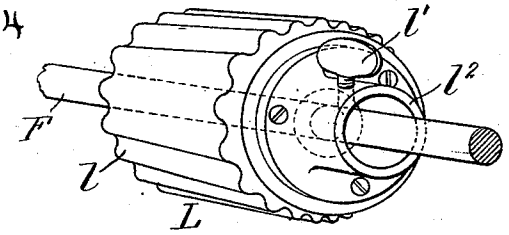
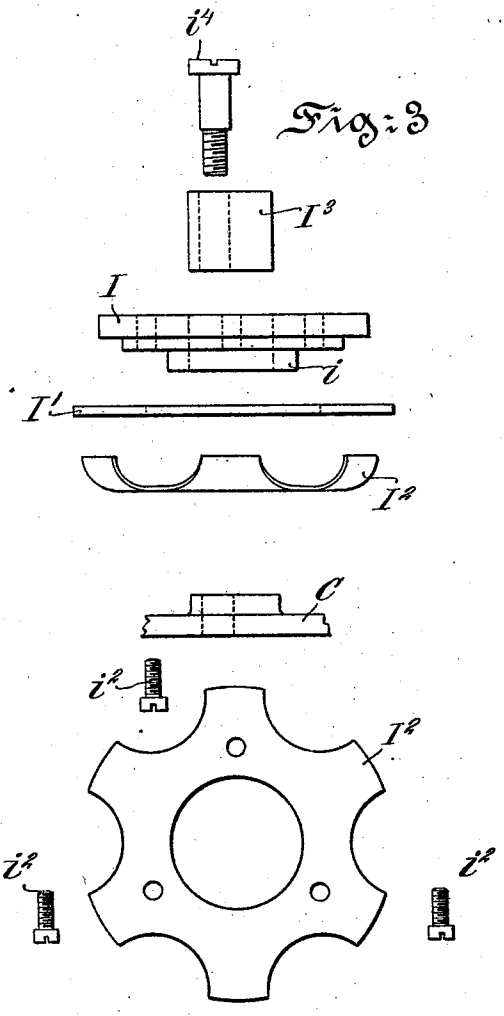


Fig. 3



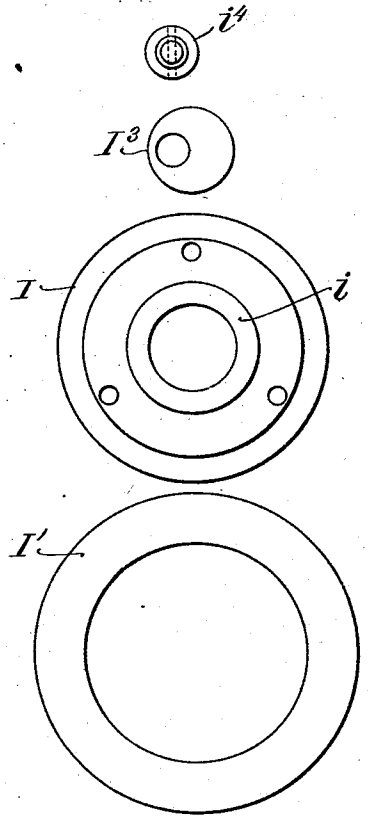


Fig. 5

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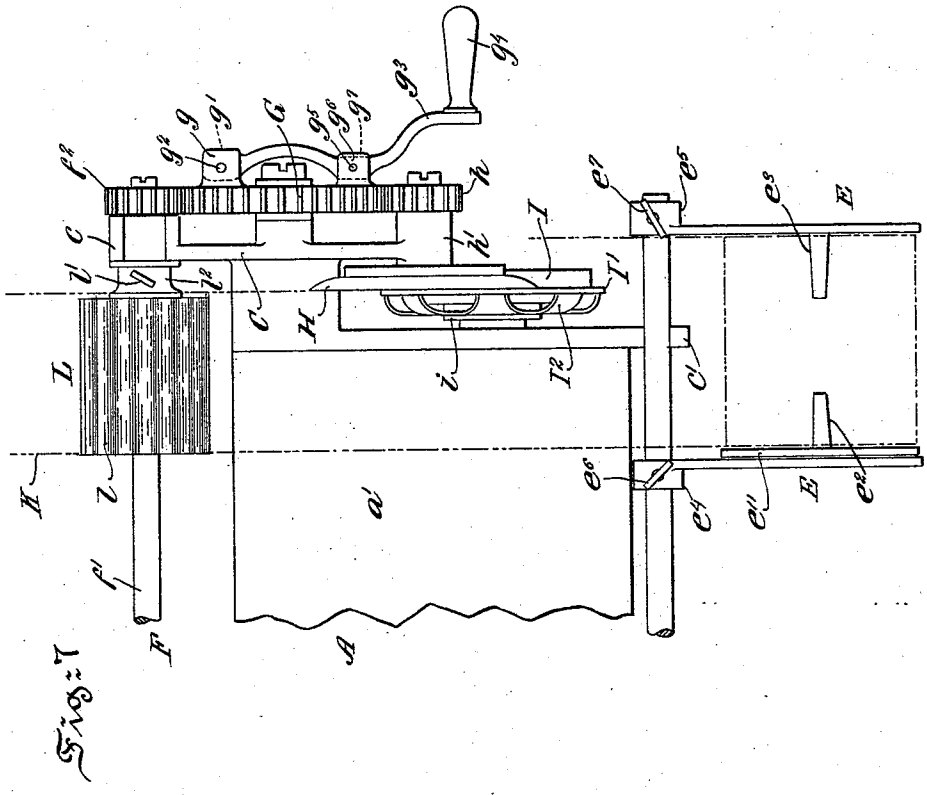

Fig. 7.

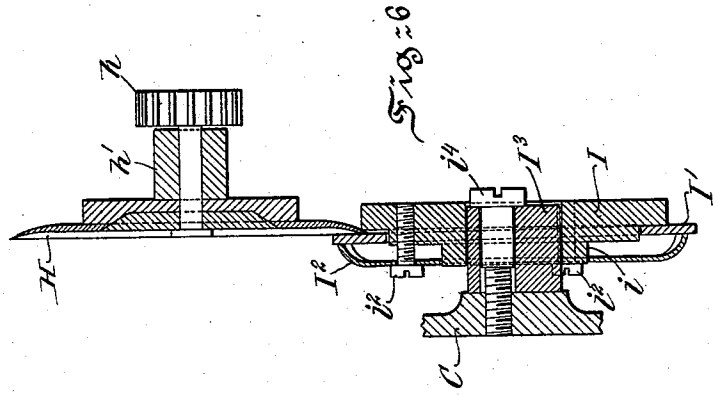

Fig. 6.

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UNITED STATES PATENT OFFICE.

JAMES M. BRADY, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE FOR TRIMMING WALL-PAPER.

SPECIFICATION forming part of Letters Patent No. 536,011, dated March 19, 1895.

Application filed January 2, 1895. Serial No. 533,562. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. BRADY, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Machines for Trimming Wall-Paper, &c., of which the following is a specification.

My invention has relation to a portable machine for trimming and rolling wall and other paper; and it relates more particularly to the construction and arrangement of the parts of such a machine for said purpose.

The principal objects of my invention are, first, to provide a simple, durable and effective machine for trimming and rolling wall and other paper; second, to provide a machine for trimming and rolling wall and other paper having means for guiding the paper in the path of the cutter and for maintaining the latter in a good working condition; third, to provide a machine for trimming paper with a holder adjustable lengthwise of the machine on a shaft or rod connected therewith; fourth, to provide a machine for trimming paper provided with a two part shaft and clamping device for engaging the paper and permitting of the rolling of the same in such manner as that said shaft may be readily released from the clamping device and the latter from the rolled paper; fifth, to provide a machine for trimming paper with a holder comprising two members adjustably engaging a shaft or rod and provided with engaging pins for the ends of the roll of paper and the members of said holder provided with lugs adapted to contact with the base plate of the machine to maintain the same in required position; sixth, to provide a machine for trimming paper having a beveled edge cutter revolving between rotatable guides or disks held under spring tension and said guides provided with an eccentric bearing in connection with the machine to compensate for wear and to insure perfect guidance of the paper in the path of the cutter and for maintaining the latter in a good working condition and a detachable and separable shaft adapted to form the paper into a roll and provided with means controlled by a gear-wheel having a pivotal operating handle for rotating said cutter and actuating the paper laying up shaft of the machine; and, seventh, to provide a machine for trimming paper having a holder longitudinally adjustable on a shaft, a beveled cutter with a gear, a separable and detachable shaft with a gear and a removable two part spring clamping device, the said cutter and laying up shaft actuated by a gear-wheel provided with lugs, with certain of them pivotally engaging an operating handle and one of the others provided with a pin adapted to engage said handle to permit in one instance of a rotation of said large gear-wheel and in the other, when thrown out of engagement with said lugs to prevent rotation of said wheel.

My invention stated in general terms, consists of a machine for unrolling, trimming and rolling wall and other paper, constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and general features of my invention will be more fully understood from the following description taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1, is a perspective view of a machine embodying features of my invention. Fig. 2, is a top or plan view of the same. Fig. 3, is a detached detail view of the parts of the spring pressed revoluble guides for directing paper in the path of the cutter and for maintaining the latter in a good working condition and the same provided with an eccentric bearing for adjusting said guides from time to time to required position. Fig. 4, is a perspective view in broken section of a portion of a revoluble shaft provided with a feed roll having a corrugated or ribbed periphery for frictionally engaging the paper and feeding the same to the cutter and away from the machine, the said view embodying a modified form of paper feed to the cutter and of the trimmed paper from the same of my invention. Fig. 5, is a top or plan view of the parts of the machine illustrated in Fig. 3. Fig. 6, is a central sectional view through the rotary cutter and eccentric guides of the machine, showing the beveled edge of said cutter in position between said guides; and Fig. 7, is a top or plan view of a portion of the machine of my invention, showing the roll of Fig. 5, in application thereto for feeding the paper to the rotary cutter of the ma-

chine and for causing delivery also of the trimmed paper from the machine for laying up into a roll or other form, for subsequent use.

Referring to the drawings A, is an oblong base-plate preferably made in two parts a and a', and which are hinged together at a^2, and on one of the members is provided a retainer or clip a^3, engaging a back-stop or pin a^4, of the other member of the base plate A, as clearly illustrated in Fig. 1, of the drawings. At the left hand end of the folding base-plate A, is suitably secured a bracket B, provided with a projecting arm b, having a U-shaped slot b', and the opposite end of the bracket B, is provided with a bearing b^2, having a tightening screw b^3.

C, is a bracket suitably secured to the right hand end of the base plate A, and provided at one end with a U-shaped slot c and at the opposite end is provided a bearing c'.

D, is a longitudinal shaft or rod engaging the bearings b^2 and c', one surface of which is flattened at d, for a purpose to be presently fully explained.

E, is a holder consisting of right and left hand members e and e', having projecting pins e^2 and e^3, for engaging the respective ends of a roll of paper and provided with rear bearings e^4 and e^5, with tightening screws e^6 and e^7, and lugs e^8 and e^9, forming holders or supports adapted to be brought into engagement with the top of the base plate A, for maintaining the respective members of the paper roll holder E, in required position, to permit of the ready winding off of paper in a manner to be presently fully explained.

e^{11}, is a revoluble washer of rubber, pasteboard or other material applied to the pin e^2, of the member e, of the holder E, to reduce friction on the end of the paper roll in the winding of the same and to insure also a more perfect delivery of the paper drawn into the path of a cutter for the severance thereby of a narrow strip or fillet, as hereinafter more fully explained.

In the U-shaped slots b' and c, of the brackets B and C, is detachably mounted a rod or shaft F, consisting of two separable parts f and f', screwing together in the manner illustrated in Figs. 1 and 2, and at the right hand end of said rod or shaft is secured rigidly thereto a gear f^2, which is adapted to mesh with a large operating gear-wheel G, suitably journaled to the bracket C. In one face of the gear wheel G, are provided lugs g and g', to which by means of a pivot g^2, is attached an operating arm g^3, provided with a handle g^4, and in operative position. The same with its handle is brought into engagement with the pin g^5, of one of the lugs g^6 and g^7, formed with another part of the gear-wheel G. In the operative position of said arm g^3, with its handle g^4, as illustrated in Fig. 1, rotary motion is imparted to said gear-wheel G, which imparts like motion to the gear f^2, and to a gear h, rigidly mounted on a journal h', secured to the bracket C, and carrying a beveled edge circular cutter H.

I, is a disk provided with a rear flanged hub i, and surrounding the same is a ring or annulus I'.

I^2, is a curved spring finger plate, the fingers of which engage with one surface of the ring or annulus I', and this plate is provided with openings through which are inserted a series of screws i^2, engaging the disk I. The central opening in the spring finger plate engages the flanged hub i, of the disk I, as clearly illustrated in Fig. 2, of the drawings. The rotary cutter H, having a bevel edge on one surface about the periphery thereof, normally engages between the disk I, and annulus I', as illustrated in Fig. 1, and the periphery of the annulus I', is slightly beveled in an opposite direction to that of the bevel surface of the cutter H, so that a good working surface for the cutter may be presented to the paper to be severed in the travel of the same and by a clean shear cut through the actuation of the gears f^2 and h, and wheel G, a narrow strip or fillet may be removed therefrom. The inoperative position of the arm g^3, with its handle g^4, is illustrated in dotted lines in Fig. 2, of the drawings, whereby rotation of the gear-wheel G, in such position is entirely prevented. The disk I, and the annulus I', are held a proper distance apart for the engagement of the cutter H, between the same by means of the spring finger plate I^2.

I^3, is an eccentric bearing and upon which the spring controlled annulus or ring and disk are mounted and which bearing is secured to the bracket C, in such manner as that the said disk and its annulus constituting spring positioned guides for the rotary beveled edge cutter H, may be raised or lowered by loosening the screw i^4, of said bearing, whereby a good working surface for the said cutter is always thereby insured.

J, is a semicircular clamping device provided at one end with depending lips or lugs j and j', adapted to engage the shaft or rod F, after one end of the paper K, has been wrapped by hand or otherwise around the same.

In Figs. 4 and 7, is illustrated a modified form of paper feed to the cutter and of the delivery of the same away from the machine, comprising a roll L, having a corrugated or ribbed periphery composed of rubber or other gritty matter or material l, and which roll is mounted on the trimmed paper laying up revoluble shaft F. This roll L, is provided with a clamping or tightening device l', extending through a tubular or other casting l^2, secured to one end of the same. This roll is employed as a feed, when a narrow strip or fillet is to be removed from heavy wall or other paper, not susceptible of being easily formed into a roll.

A roll constructed and arranged as above described and as fully illustrated in said Figs. 4 and 7, is well adapted not only to uniformly feed the paper to the cutter H, but also to

prevent bunching, creasing or jamming thereof, during the cutting operation of the same; and moreover, this roll is adapted to deliver the cut paper uniformly and smoothly away from the machine, whence it may be laid up in any preferred manner, for subsequent use.

The mode of operation of a machine for timming paper of my invention as hereinbefore described, is as follows: The roll of paper K, is mounted on the pins of the two members *e* and *e'*, of the holder E, and then led forward in the path of the rotary annulus I', and its disk I, and against the rotary cutter H, whence the operating handle of the gear-wheel G, is manipulated to impart rotary motion to the gears f^2 and *h*, which is continued until the paper is trimmed in sufficient quantity to permit of the same being wound around the shaft F, and the application of the clamping device J, thereto with the lugs or lips *j* and *j'*, of said device engaging said shaft F, when by a further manipulation of said operating handle of the gear-wheel G, the paper can be fed from the holder E, uniformly to the cutter for removing a strip or fillet therefrom and then wound into a roll onto the clamped shaft F, until the entire roll of paper from the holder E, has been trimmed and wound upon said shaft F. The shaft F, with the clamped paper around the same may then be readily removed by lifting the shaft from the U-shaped slots of the brackets B and C; and the shaft drawn outward from the roll of trimmed paper K, and the clamping device J, by tilting the roll may be removed by hand from the roll of trimmed paper.

It may be here remarked, that is preferred to make the clamping device J, in two hinged or jointed parts, and other parts of the machine separable and detachable, so that the machine can be quickly detached and carried in a satchel and quickly set up for use.

It will be manifestly obvious to those skilled in the art to which my invention appertains that as to minor details, modifications may be made, without departing from the spirit of my invention, and hence I do not wish to be understood as limiting myself to the precise construction and arrangement hereinbefore explained; but,

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A machine for trimming wall paper, &c., provided with a base, brackets provided with bearings at one end having tighteners and at the other with slots, shafts engaging therewith, one of said shafts being fixed and provided with a two-part paper holder and the other being revoluble and provided with means for feeding the paper in a forward direction, a gear-wheel meshing with small gears, and a rotary beveled edge cutter engaging between and frictionally contacting with an eccentrically mounted disk and annulus held under spring tension, substantially as and for the purposes described.

2. A machine for trimming wall paper &c., provided with a folding base having brackets with bearings at one end and U-shaped slots at the other, a fixed rod with a flattened surface engaging said bearings and held to position in said bearings by tightening screws, a separable shaft mounted in said slots and provided with means for feeding the paper, a rotary cutter, a guide comprising an annulus and a disk eccentrically mounted on and engaged by a spring fingered plate, means for actuating said shaft and a paper holder mounted on said fixed rod, substantially as and for the purposes described.

3. A machine for trimming wall paper, &c. provided with a rotary cutter having a beveled edge and a spring positioned two part guide eccentrically mounted and provided with a beveled edge, said cutter engaging between and frictionally contacting with said guide, substantially as and for the purposes described.

4. A machine for trimming wall paper &c. provided with a rotary cutter engaging an eccentrically mounted two part guide, gears meshing with a gear-wheel provided with a pivotal operating arm having a handle, a paper roll holder mounted on a fixed shaft and a rotary shaft provided with a gear meshing with said gear-wheel, substantially as and for the purposes described.

5. A machine for trimming wall paper, &c. comprising a shaft, a paper roll holder consisting of two members laterally adjustable on said shaft, a rotary cutter engaging eccentrically mounted guides, a revoluble shaft and means, substantially as described, for feeding the paper in a forward direction in the path of and away from said cutter, substantially as and for the purposes described.

6. A machine for trimming wall paper, &c. comprising a shaft, a paper roll holder consisting of two members adjustably mounted on said shaft and provided with bearing pins for the roll of paper and tightening devices, and one of said members having a projection, a rotary cutter, guides eccentrically mounted and held under spring tension to permit of the engagement of said cutter between said guides, and means for drawing the paper from said roll in the path of said cutter to be trimmed and away from the same when trimmed, substantially as described.

7. A machine for trimming wall paper, &c. comprising a shaft, a paper roll holder consisting of two members adjustably secured to said shaft, the latter connected with brackets of the machine, a rotary cutter, eccentric guides engaged by the blade of said cutter, a revoluble shaft connected with certain of said brackets and means connected with said revoluble shaft for feeding the paper in the path of said cutter and away from the same when

a fillet has been removed therefrom, substantially as described.

8. A machine for trimming wall paper, &c. comprising a shaft, a paper roll holder clamped thereto, a shaft provided with a gear, a complemental gear meshing therewith and provided with a pivoted operating handle, a feed roll having a corrugated or ribbed surface mounted on said last named shaft, a rotary cutter and eccentric guides engaged by said cutter and the latter provided with a gear meshing with said gear having the operating handle, substantially as and for the purposes described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

JAMES M. BRADY.

Witnesses:
THOMAS M. SMITH,
LOUIS WINTERBERGER.