

J. H. E. BRANSON.  
 AUTOMATIC MACHINE FOR STRIPPING AND RE-COVERING WIRE.  
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999,694.

Patented Aug. 1, 1911.

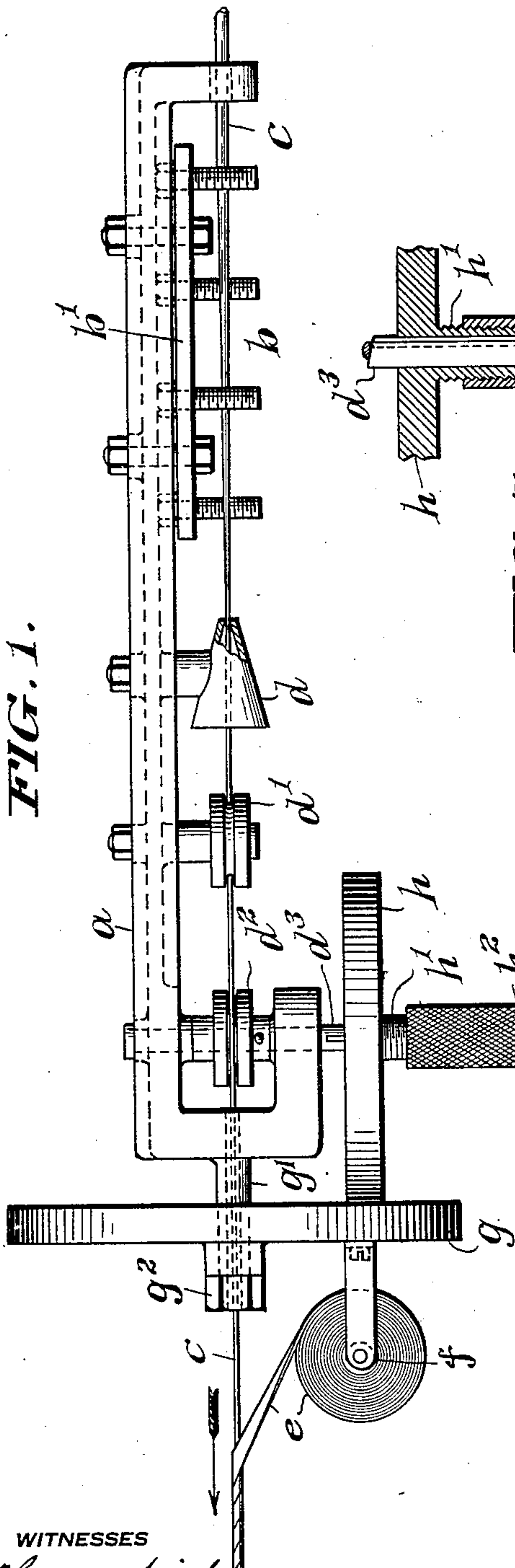


FIG. 1.

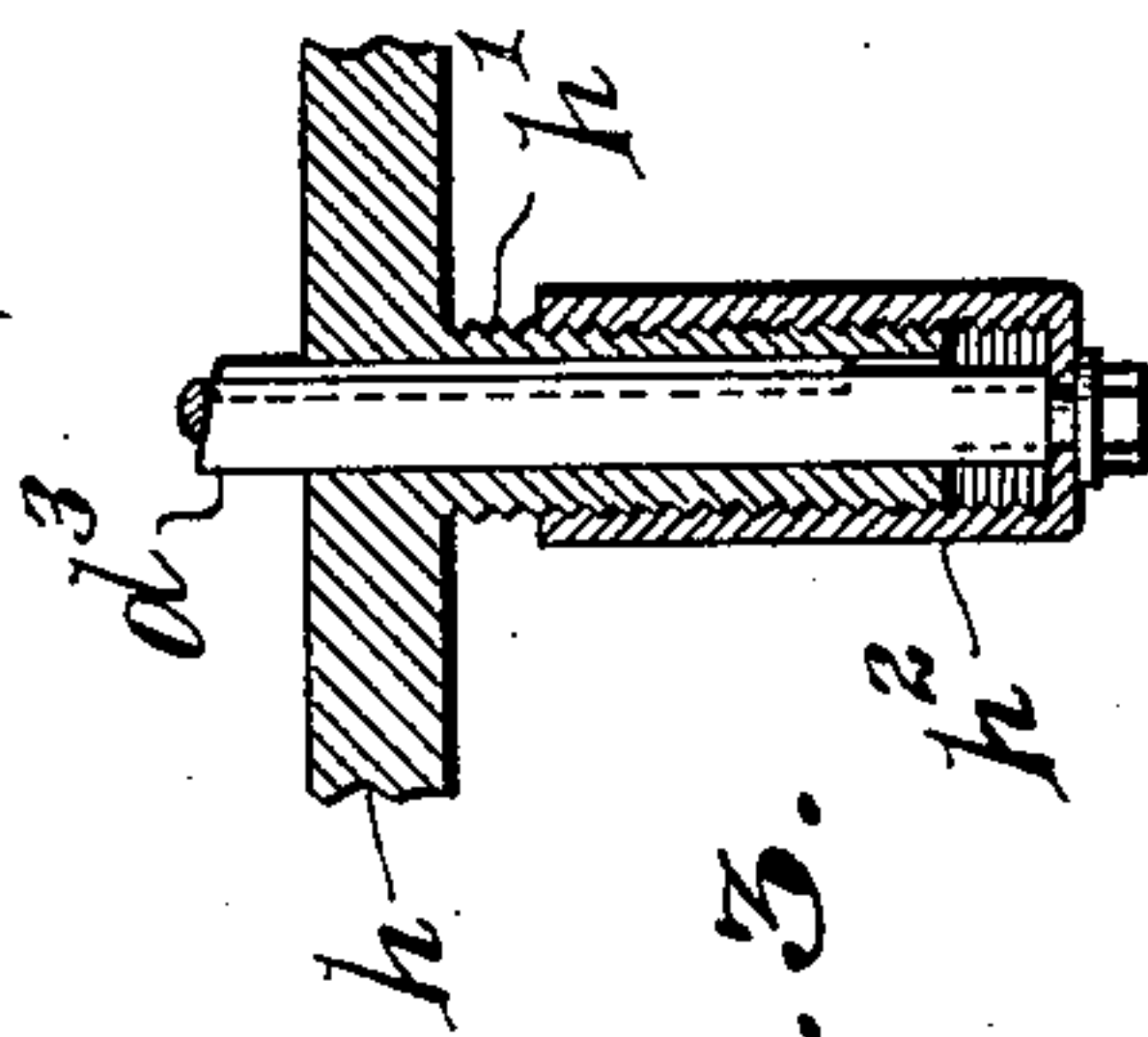


FIG. 3.

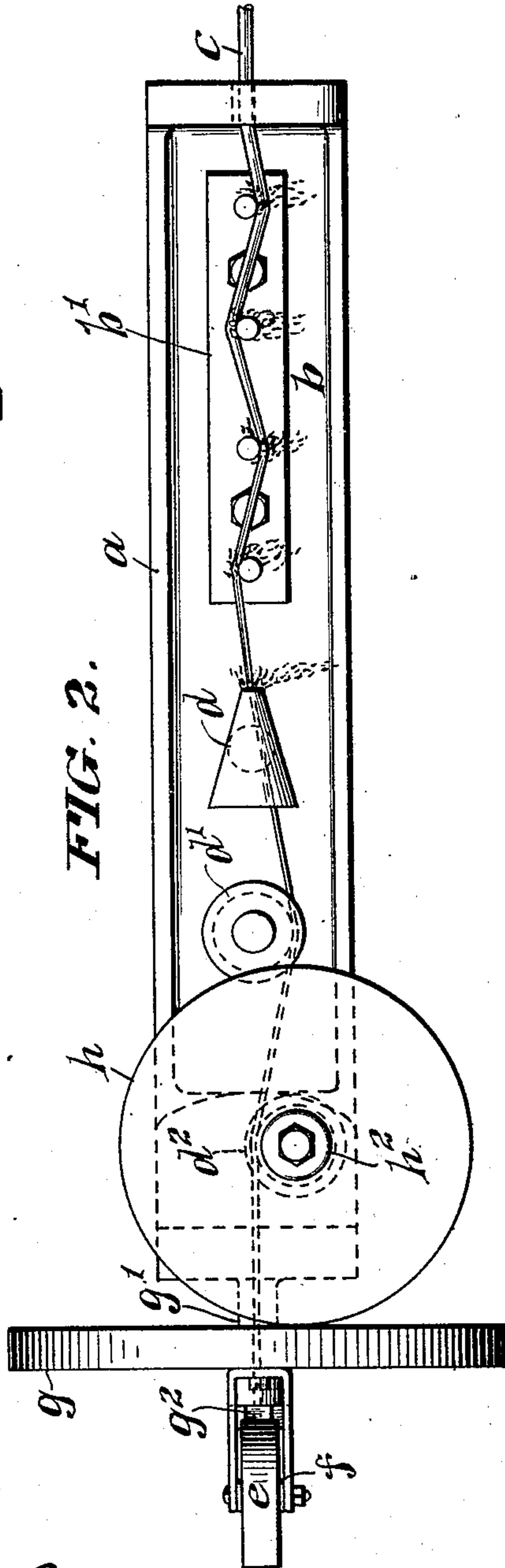


FIG. 2.

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# UNITED STATES PATENT OFFICE.

JAMES H. E. BRANSON, OF PHILADELPHIA, PENNSYLVANIA.

AUTOMATIC MACHINE FOR STRIPPING AND RE-COVERING WIRE.

999,694.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed February 25, 1911. Serial No. 610,709.

To all whom it may concern:

Be it known that I, JAMES H. E. BRANSON; 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 Automatic Machines for Stripping and Re-Covering Wire, of which the following is a specification.

My invention relates to an automatic machine for stripping or removing defective insulation from wire employed in dynamos, electric lighting, etc., and preparing the wire then to receive a new tape or fillet of insulating material for restoring the same to practical condition for use; and in such connection it relates to the constructive arrangement of such a machine, for the said defined purpose.

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

Figure 1, is a top or plan view of a machine for stripping insulated wire and re-covering the same, embodying main features of my invention. Fig. 2, is a side elevational view thereof; and Fig. 3, is a vertical sectional view, in broken section, of the speed changing disk-wheel of the machine.

Referring to the drawings, *a* is a framing carrying in one portion a ripping device *b*, consisting of a series of staggered threaded bolts extending from a plate *b*<sup>1</sup>, and detachably connected with the framing *a*. This ripping device is arranged so that in the passage of the insulating covered wire *c*, in a circuitous course over and under the staggered threaded bolts of the said plate, the defective insulation of the wire is removed by being ripped or torn off, from the wire, by contacting with the series of threaded bolts, in a manner, as clearly shown in Fig. 2.

*d*, is a funnel-shaped device projecting from the framing *a*, and through which the wire *c*, passes to thoroughly clean or scrape

the wire of extraneous substance or matter, in its travel under pressure from a reel or other holding device, not shown, and so as to leave the same in the desired practically polished condition to then receive a fresh fillet, strip or tape of insulating material *e*, from a reel *f*. This reel is pivotally supported from a friction driven disk or wheel *g*, mounted on a hollow journal *g*<sup>1</sup>, extending from the framing *a*, as clearly shown in Fig. 1. The disk or wheel *g*, is held in proper adjustable operative position on the journal *g*<sup>1</sup>, by means of a nut *g*<sup>2</sup>. Through the journal *g*<sup>1</sup>, the wire *c*, passes after being conducted under a guide-wheel *d*<sup>1</sup>, of the framing *a*, and passing over a feed pulley *d*<sup>2</sup>, mounted on a shaft *d*<sup>3</sup>, having bearings in the framing *a*, and carrying at the free end a friction disk or wheel *h*. This wheel *h*, is keyed to the shaft *d*<sup>3</sup>, and provided with an exterior threaded hollow stem *h*<sup>1</sup>, which engages an internally threaded sleeve *h*<sup>2</sup>, as clearly shown in Fig. 3, whereby through turning the sleeve on the stem *h*<sup>1</sup>, of the disk or wheel *h*, the speed of rotation of the disk-wheels *g* and *h*, can be readily increased or decreased *ad libitum*, and correspondingly thereby, the laying of the fillet, strip or tape *e*, on the wire *c*, from the reel, carried by and revolved with disk or wheel *g*, as clearly shown in Fig. 1.

In the operation of the machine the series steps are automatic, and continuous as to the stripping of the insulated covering from the wire held under tension, as well as the thorough cleaning of the same of all extraneous substance or material prior to the same being guided and fed frictionally to and through the machine to receive diagonally thereon the continuous fillet, strip or tape preparatory to being rewound onto a reel, not shown, for subsequent use.

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

A machine of the character described, comprising means to rip insulation from a wire, consisting of a series of staggered bolts extending from a plate, said bolts hav-

ing threads engaging the insulation to rip  
the same from the wire combined with  
means to scrape or clean the wire and means  
to apply a fillet, strip or tape to the wire,  
5 substantially as and for the purposes de-  
scribed.

In witness whereof, I have hereunto set

my signature in the presence of two sub-  
scribing witnesses.

JAMES H. E. BRANSON.

Witnesses:

FRANK B. ELLIS,  
WM. W. DWIER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."