

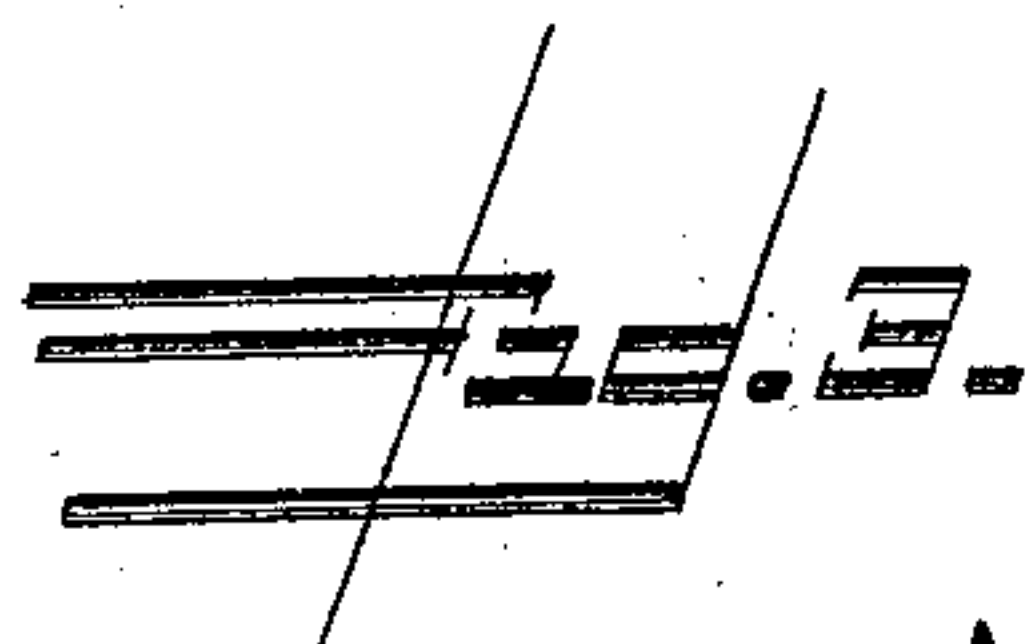
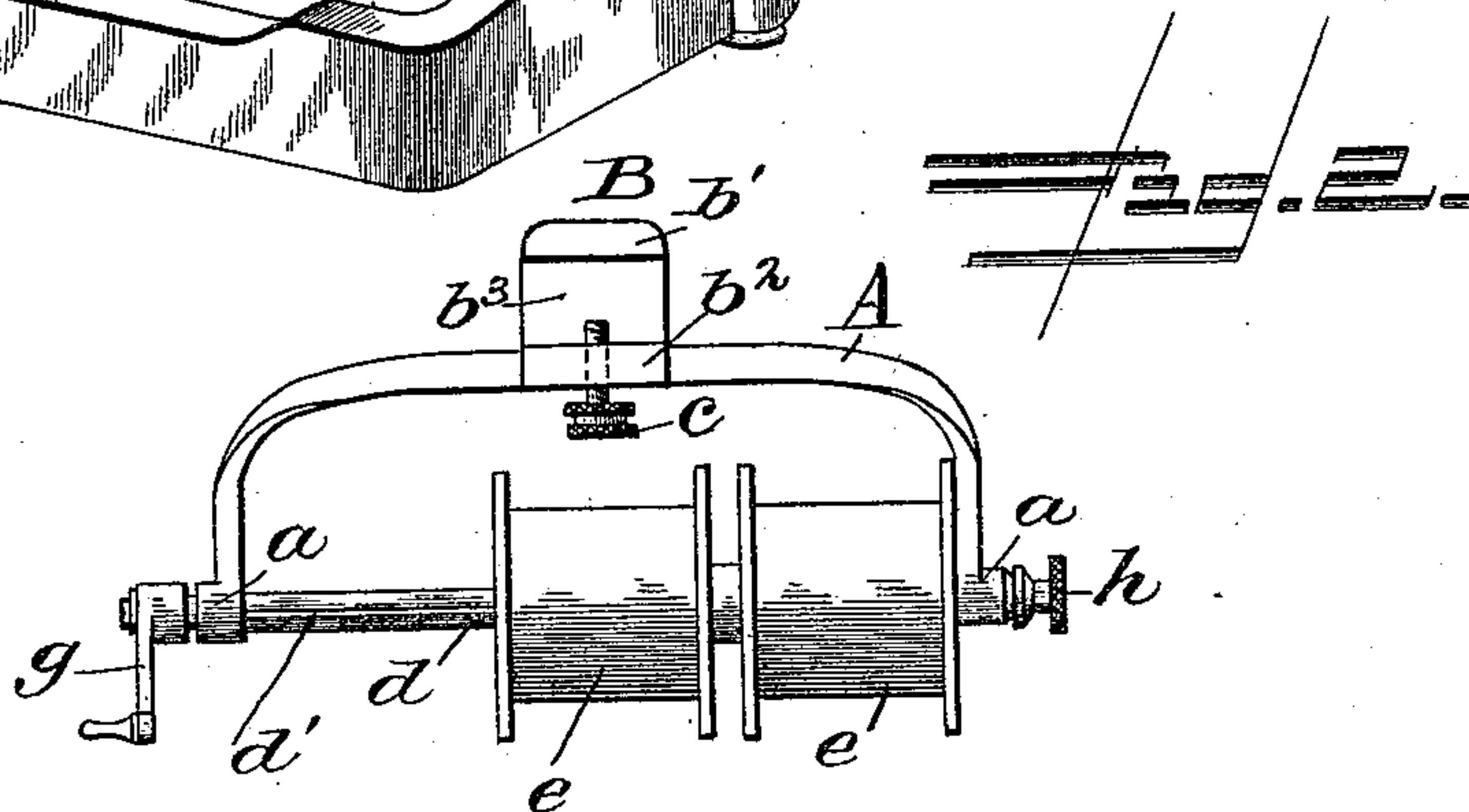
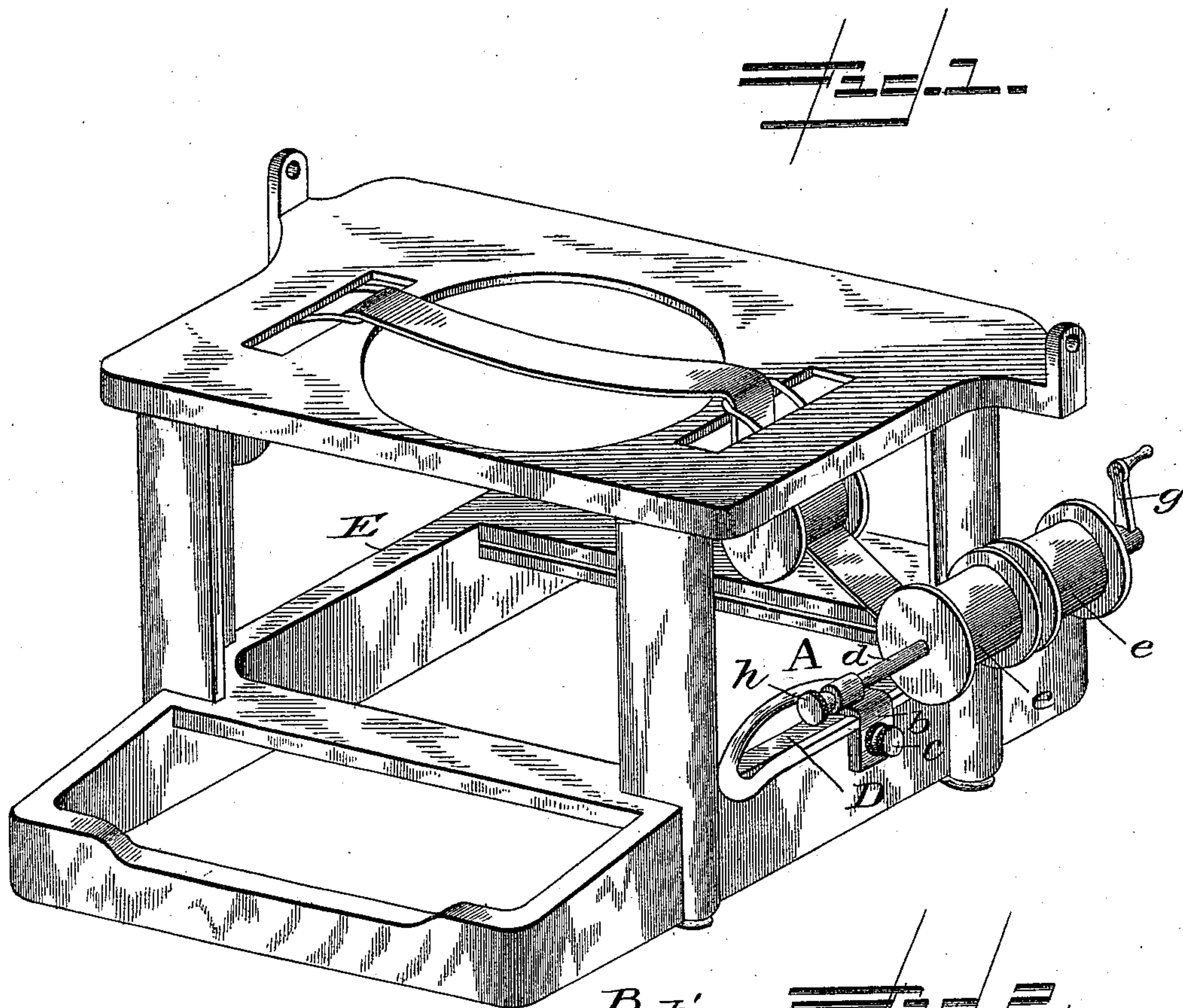
(No Model.)

A. E. WALKUP.

ATTACHMENT FOR TYPE WRITING MACHINES.

No. 494,356.

Patented Mar. 28, 1893.



WITNESSES
J. L. Ourand
M. C. Lansdale.

INVENTOR
A. E. Walkup
By John S. Duffie
his Attorney

UNITED STATES PATENT OFFICE.

ANDREW E. WALKUP, OF OMAHA, NEBRASKA.

ATTACHMENT FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 494,356, dated March 28, 1893.

Application filed June 7, 1892. Serial No. 435,886. (No model.)

To all whom it may concern:

Be it known that I, ANDREW E. WALKUP, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Attachments for Type-Writing Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is an attachment to typewriting machines, and consists of ribbon spools on a shaft journaled in a bearing adapted to be attached to a typewriting machine.

The object of my invention is to have an attachment that can be placed on any typewriter for the purpose of winding ribbons, and for the further purpose of having more than one ribbon on the machine at the same time, any of which may be used without delay.

In the accompanying drawings: Figure 1, is a frame of a Remington typewriter with my attachment secured thereto. Fig. 2, is a bottom plan view of my attachment. Fig. 3, is a detail view.

My invention is described as follows:

A, is a bow having on each of its ends bearings *a*, and at its middle a clamp, B; said clamp consists of the top or upper portion, *b*, flanges *b'*, *b''*, and a groove, *b'''*, and a thumb-screw, *c*. In the bearings, *a*, is journaled a shaft, *d*, having in its entire length a groove, *d'*. On said shaft are loosely fitted spools *e* having feathers to fit into the said groove, *d'*, to the end that the spools, though fitting loosely on the shaft and may slide from end to end of the same, will turn with the shaft. My invention only shows two spools, but the shaft and attached parts may be made much wider and several spools may be used on the said shaft. On one end of the said shaft is rigidly secured a crank, *g*, and in the other end of said shaft is a thumb-screw, *h*.

The attachment is fastened onto the machine by placing the slot, *b'''*, in the clamp, B, over that part of the frame of the machine marked D or E, as shown in the drawings,

(Fig. 1,) and fastened in position by tightening up the set screw, *c*.

My attachment may be used on either side of the machine and on any typewriting machine constructed substantially after the model of the Remington typewriter.

The ribbons are put in place for winding or writing by pushing their spools, *e*, along the shaft, *d*, so as to have them directly under the ribbon spool of the machine. When it is desired to remove the ribbon spools, the operator takes hold of the thumb-screw, *h*, and holds it fast, and then takes hold of the crank, *g*, with the other hand and turns it until the screw, *h*, comes out. Then the shaft may be pulled out until the spool comes off. Thus a spool or ribbon can be quickly changed.

The ribbons are operated by the use of this attachment in the following manner: When the operator wants to use a different ribbon, the ribbon in use is run on to the spool on the opposite side of the writing machine from the attachment and detached from the other spool. The spools *e e* are then slid along the shaft *d* to bring the spool bearing the desired ribbon into operative position which is then unpinning from its spool on the attachment and pinned to the detached end of the ribbon before used. The new ribbon is then ready for use. Suppose a person has a variety in this kind of work, for instance, he is doing recording, which must be done with a record ribbon, and he desires to write a letter which must be copied. With this attachment he simply runs the record ribbon on to the spool on the opposite side of the machine from the attachment, and attaches the end of the copying ribbon on the attachment to the end of his record ribbon and goes right on with his letter. When he has finished writing his letter he simply winds the copying ribbon back on to the spool of the attachment and attaches his record ribbon to the spool on the writing machine and is ready for recording. This is a great saving of time. If it is desired to use a red or other colored ribbon the spool containing such colored ribbon is pushed along the shaft until it is in proper position (immediately under the typewriter spool) and is then used, as in case of black copying ribbon above described.

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

5 In combination with a typewriting machine the ribbon winding attachment consisting of the spools *e*, having the feather *f*; shaft *d*, having the groove *d'*, and bearing said spools; bearings *a*, in which said shaft is journaled, said bearings adapted to be secured to the

frame of the typewriting machine in any substantial manner, substantially as shown and described and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ANDREW E. WALKUP.

Witnesses:

DEBBIE RICHARDS,
EMMA POWERS.