

No. 875,890.

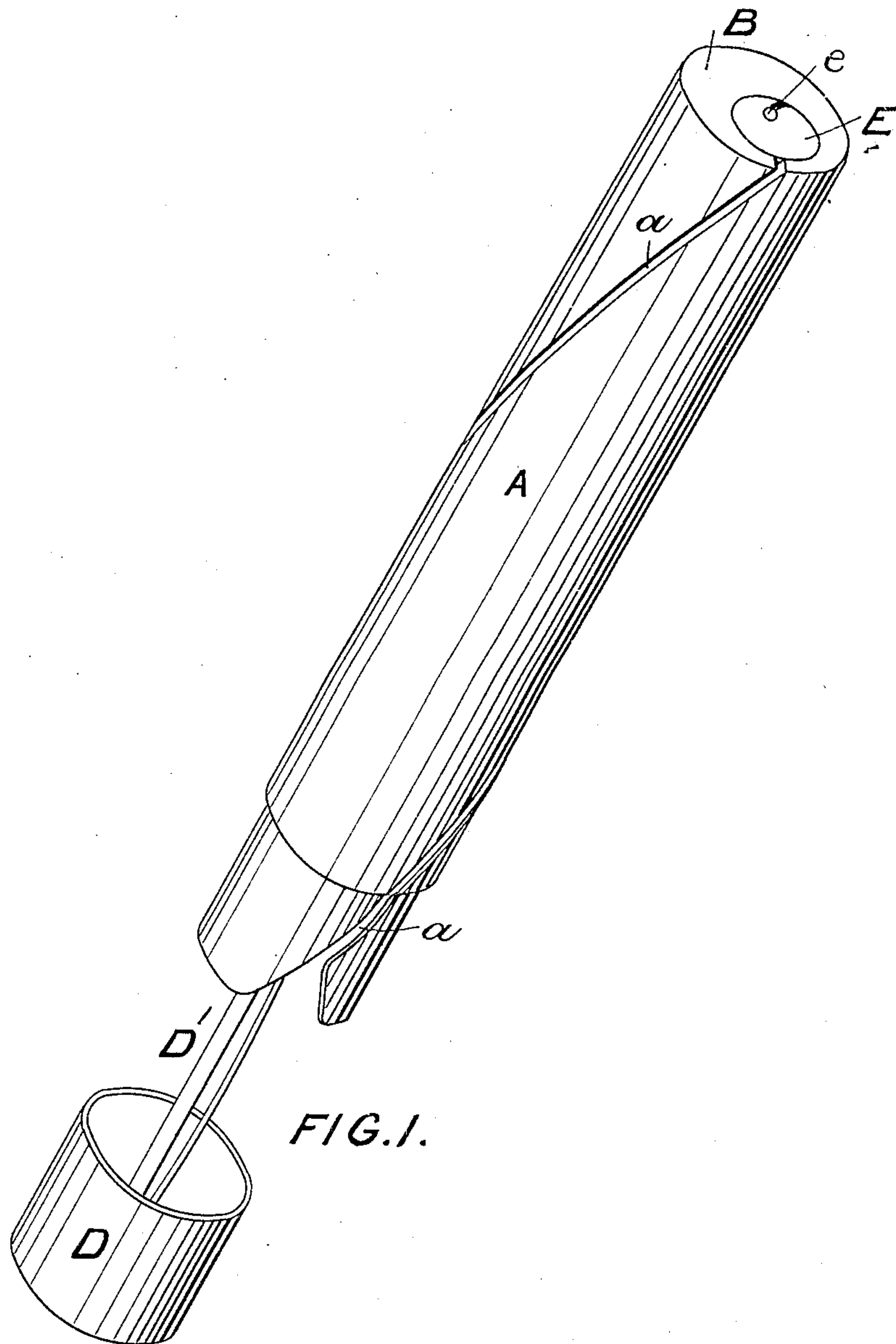
H. O. BRANDT.

PATENTED JAN. 7, 1908.

# WEFT CASE FOR AUTOMATIC WEFT REPLENISHING LOOMS.

APPLICATION FILED APR. 9, 1906.

3 SHEETS—SHEET 1.



WITNESSES.

Howard  
Joseph Bates.

INVENTOR

H. O. Brandt-  
4 J. on acut orien  
aty

No. 875,890.

H. O. BRANDT.

PATENTED JAN. 7, 1908.

WEFT CASE FOR AUTOMATIC WEFT REPLENISHING LOOMS.

APPLICATION FILED APR. 9, 1906.

3 SHEETS—SHEET 2.

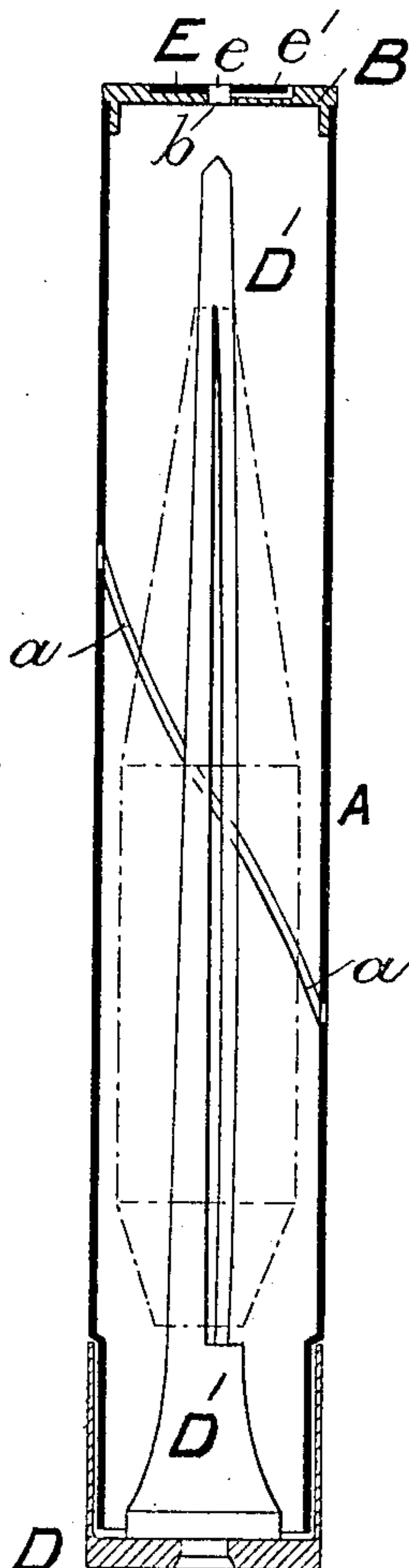


FIG. 2.

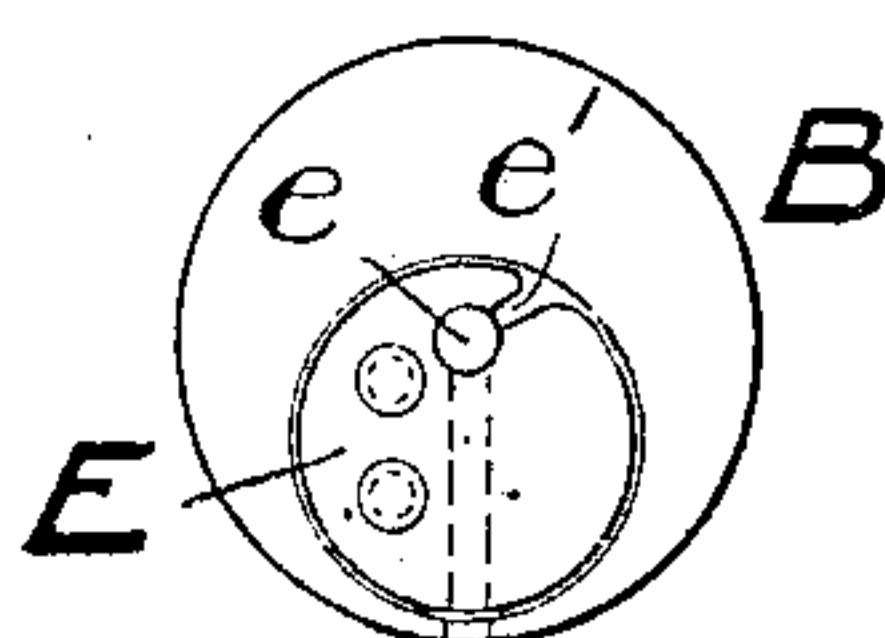


FIG. 3.

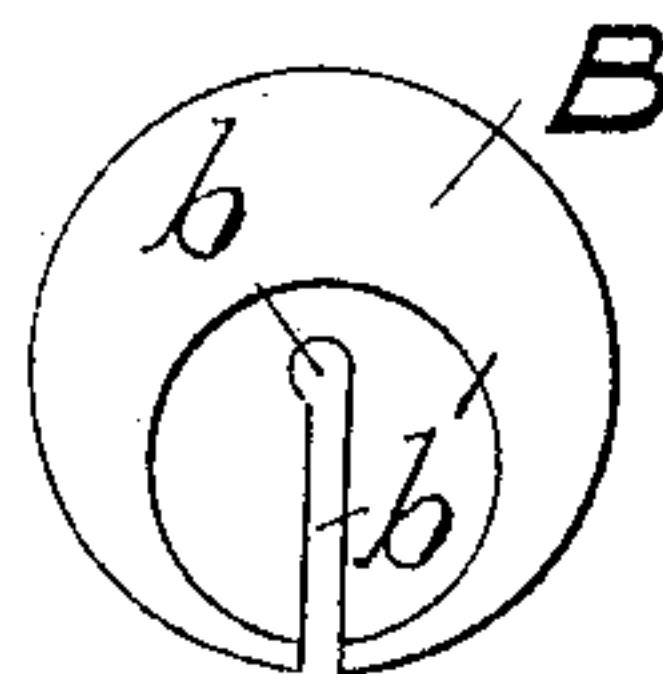


FIG. 4.

WITNESSES.

*E. Howard*  
*Joseph Prates*

INVENTOR.

*H. O. Brandt*  
*by*  
*Edw. J. O'Sullivan*  
*att'y*

No. 875,890.

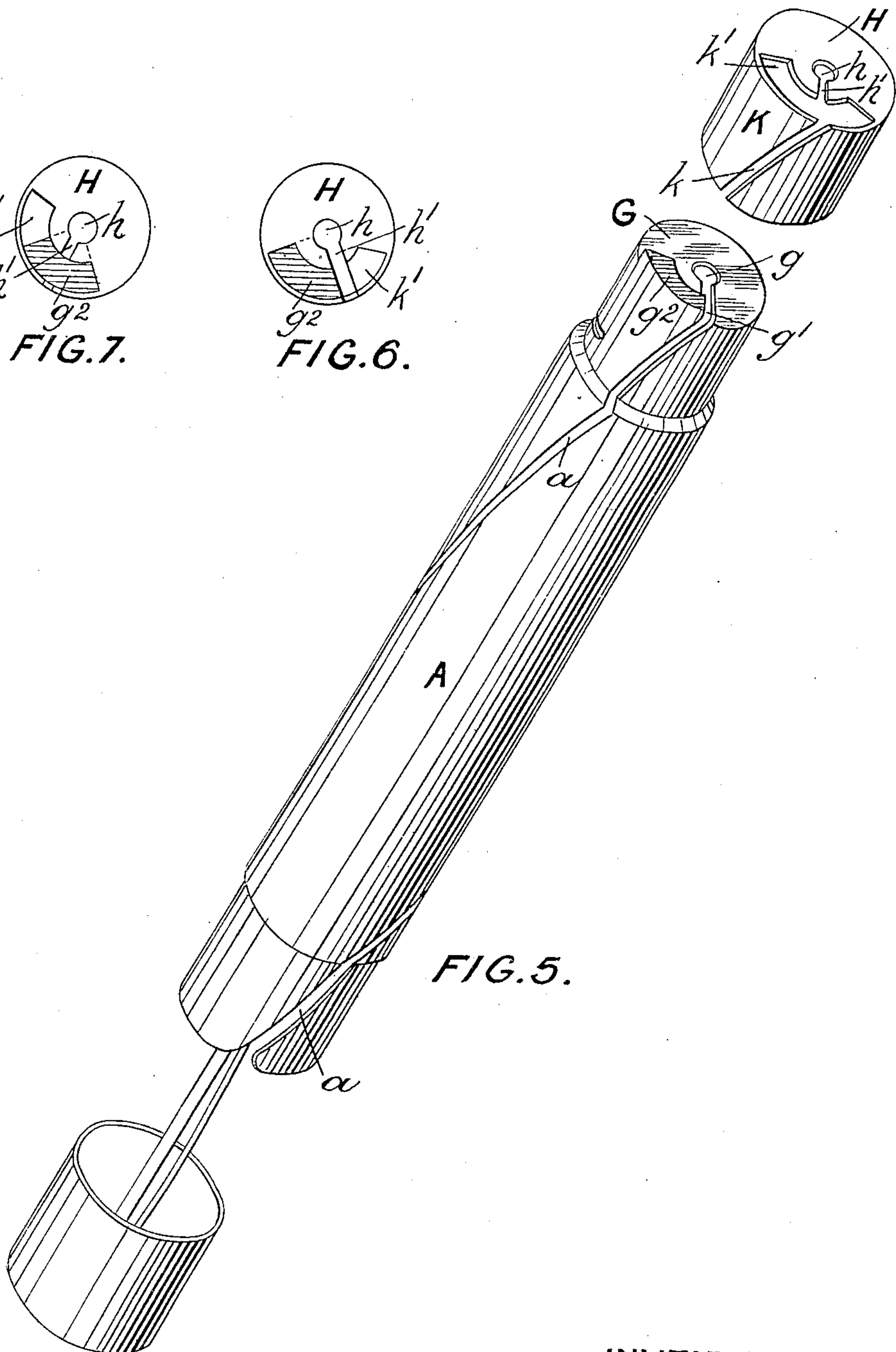
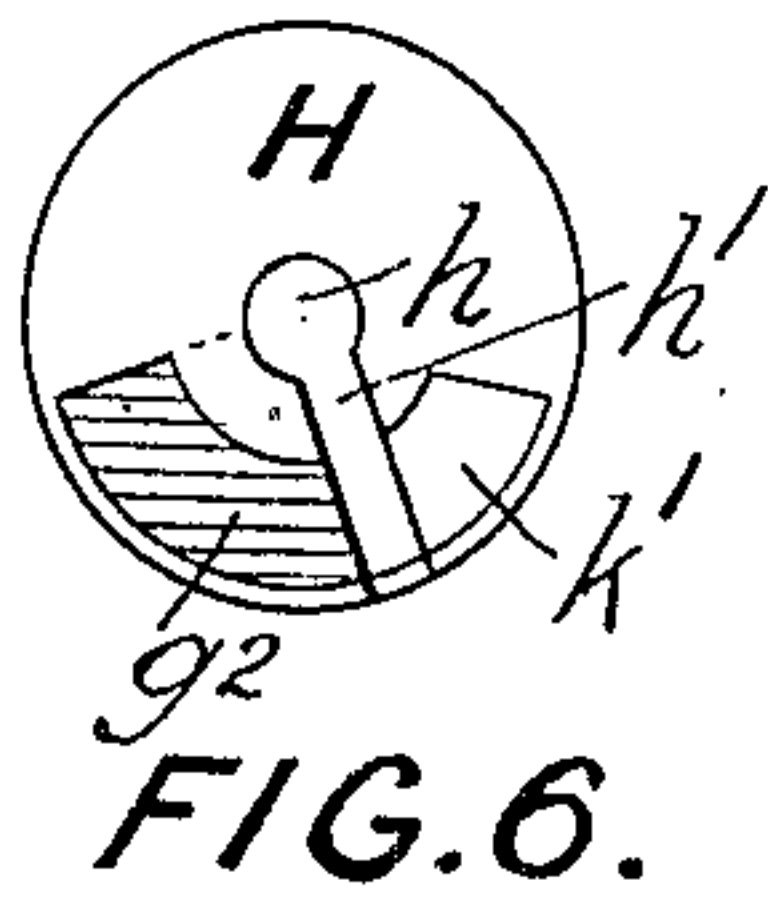
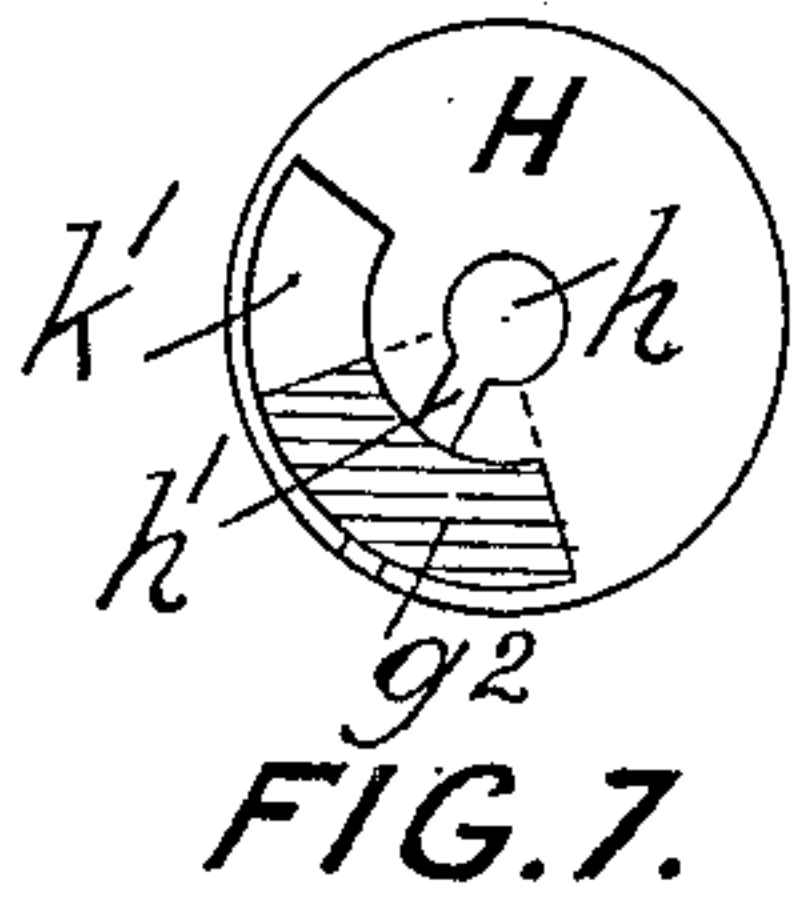
H. O. BRANDT.

PATENTED JAN. 7, 1908.

WEFT CASE FOR AUTOMATIC WEFT REPLENISHING LOOMS.

APPLICATION FILED APR. 9, 1906.

3 SHEETS—SHEET 3.



WITNESSES.  
*E. Howard*  
*Joseph Bates.*

INVENTOR  
*H. O. Brandt*  
*J. O. O'Brien*  
*att.*



# UNITED STATES PATENT OFFICE.

HEINRICH O. BRANDT, OF MANCHESTER, ENGLAND.

WEFT-CASE FOR AUTOMATIC WEFT-REPLENISHING LOOMS.

No. 875,890.

Specification of Letters Patent.

Patented Jan. 7, 1908.

Application filed April 9, 1906. Serial No. 310,796.

*To all whom it may concern:*

Be it known that I, HEINRICH OTTO BRANDT, British subject, and resident in Manchester, county of Lancaster, England, have invented certain new and useful Improvements in Weft-Cases for Automatic Weft-Replenishing Looms, of which the following is a specification.

This invention relates to the cylindrical weft case employed to carry the cop or pirn of yarn in automatic weft replenishing looms, and is designed to provide an improved construction of weft case which will be readily and easily threaded and may be termed self-threading.

The weft case is constructed of cylindrical or approximately cylindrical form with a spiral slot or slit extending from end to end open at one end to receive the weft cop or pirn and with a central eye at the other end through which the yarn is delivered.

The invention will be fully described with reference to the accompanying drawings.

Figure 1. perspective view of the weft case. Fig. 2. longitudinal sectional elevation of same. Fig. 3. end elevation. Fig. 4. end elevation with eye plate E removed. Fig. 5. perspective view showing modified form of the thread slot and thread eye. Fig. 6. end elevation of same showing the thread slot  $g'$  open. Fig. 7. end elevation of same showing the thread slot  $g'$  closed.

The weft case A which is of cylindrical form and open at one end is constructed with a spiral slot or slit  $a$  extending from end to end and forming a weft passage through which the thread from the cop or pirn is carried to a thread eye  $b$  at the other end. This spiral form of slot or thread passage  $a$  renders the weft case A less liable to lose its cylindrical shape than where a straight slot or passage is employed.

The cop or pirn skewer or peg  $D'$  is attached to a socket or cap  $D$  which fits over the open end of the weft case A and retains the adjacent parts, severed by the spiral slit  $a$ , in position.

The delivery end of the weft case A is closed by a plate or cover B with a central thread eye  $b$  and a thread slot  $b'$  leading thereto from the spiral slit  $a$ . The plate or cover B is indented to receive a second plate E, and into the indentation therein formed the eye plate E is fitted with a delivery eye  $e$ .

The eye plate E is constructed with a slit

$e'$  leading to the delivery eye  $e$  and is secured in position upon the plate B so that the eye  $e$  is coincident with the eye  $b$  but the slit  $e'$  lies over the plate B and the slot  $b$  is covered by the plate E. At one side of the eye plate E a recess or space  $e'$  is left between it and the plate B through which the thread can be drawn through the slot  $b'$  under and around the edge of the plate E into the slit  $e$  and thence enter the double eye  $b e$  formed by the two plates. This construction prevents escape of the weft thread when the case A is in the shuttle. The eye plate E is affixed by rivets brazing or other device.

In the modification shown in Figs. 5, 6, and 7 the case A is constructed with a spiral thread slit or passage  $a$ , as before and with a plate G at the delivery end in which is formed the eye  $g$  and slit  $g'$  and upon the plate G is a projection  $g^2$ . The second or eye plate H with eye  $h$  and slit  $h'$  is carried by a cap K with a slot  $k$  corresponding with the spiral slot or thread passage  $a$  in the case A and with an opening or recess  $k'$  to fit over the projection  $g^2$  of the plate G. The eye plate H is capable of a limited movement over the plate G, in one position the slits  $g'$  and  $h'$  being coincident to lead the thread into the central eye  $g-h$  (see Fig. 6.), and in the other position the slit  $g$  being covered by the plate H (see Fig. 7.) to retain the thread in position in the closed eye.

I am well aware that weft cases for automatic weft replenishing looms have been formed with a straight slot or thread passage and such I do not claim.

What I claim as my invention and desire to protect by Letters Patent is:—

1. A weft case constructed with a spiral slot from end to end to form a passage for the thread a delivery eye at one end and means for retaining the thread therein substantially as described.

2. A weft case constructed with a slot from end to end to form a passage for the thread a delivery eye at one end a slit to introduce the thread from the slot to the eye and means for closing the eye to retain the thread therein substantially as described.

3. A weft case constructed with a spiral slot from end to end to form a passage for the thread a delivery eye at one end a slit to introduce the thread from the slot to the eye and means for closing the eye to retain the thread therein substantially as described.

4. A weft case comprising in its construc-

tion a cylindrical case A open at one end and provided with a slot from end to end to form a thread passage, a cop skewer D', a cap D to which the cop skewer is attached to in-  
5 close one end of the case, a cover at the other end provided with slit and eye and a second eye plate placed thereon and covering the slit therein and provided with an eye coincident with the eye of the first plate sub-  
10 stantially as described.

5. A weft case comprising in its construction a cylindrical case A open at one end and provided with a spiral slot from end to end to form a thread passage, a cop skewer D', a

cap D to which the cop skewer is attached, to 15 inclose one end of the case, a cover at the other end provided with slit and eye and a second eye plate placed thereon and covering the slit therein and provided with an eye coincident with the eye of the first plate sub- 20 stantially as described.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

H. O. BRANDT.

Witnesses:

J. OWDEN O'BRIEN,  
B. LATHAM WOODHEAD.