

No. 887,016.

PATENTED MAY 5, 1908.

C. POLAND.
CONSTRUCTION OF DRUMS.
APPLICATION FILED SEPT. 30, 1907.

Fig.1.

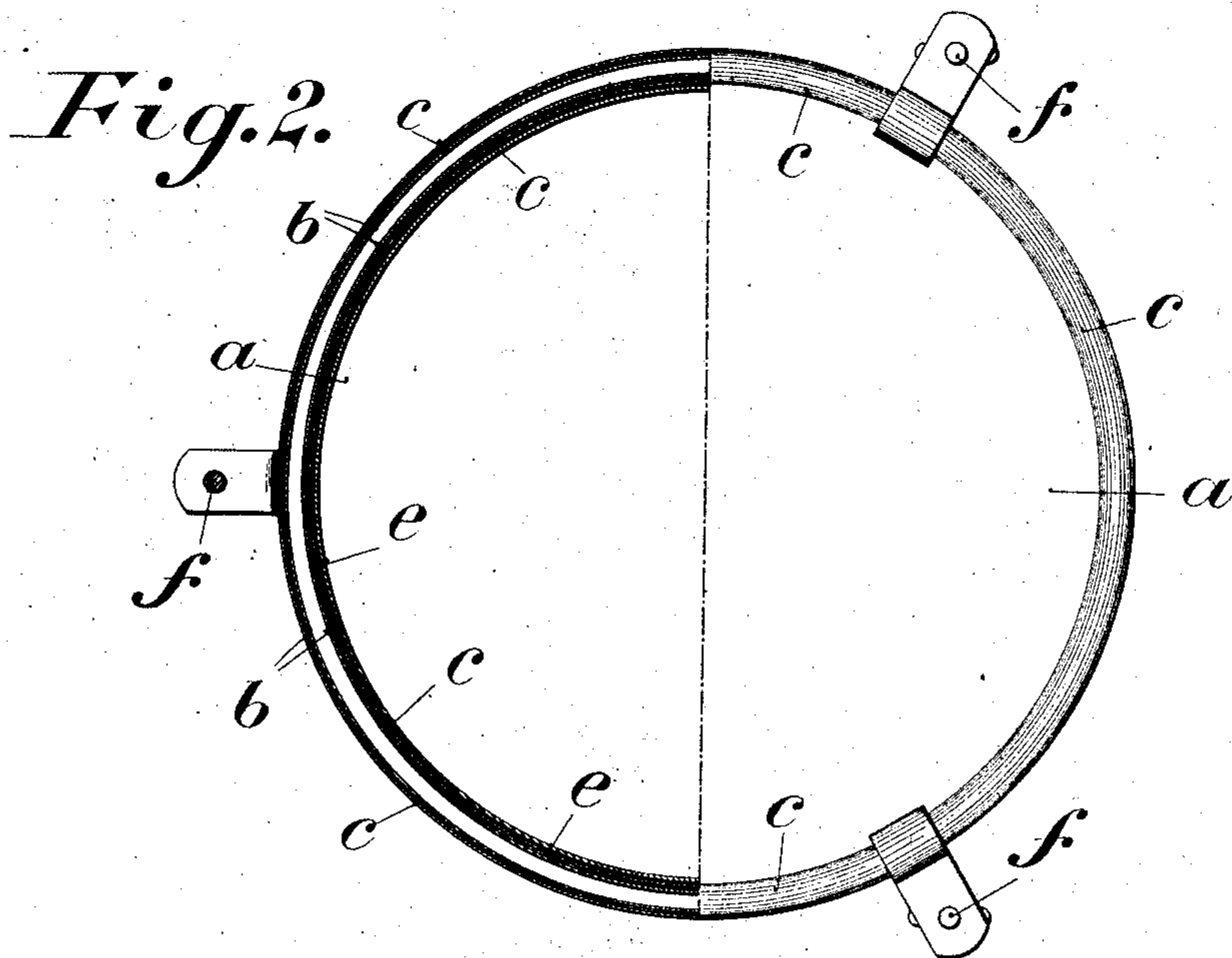
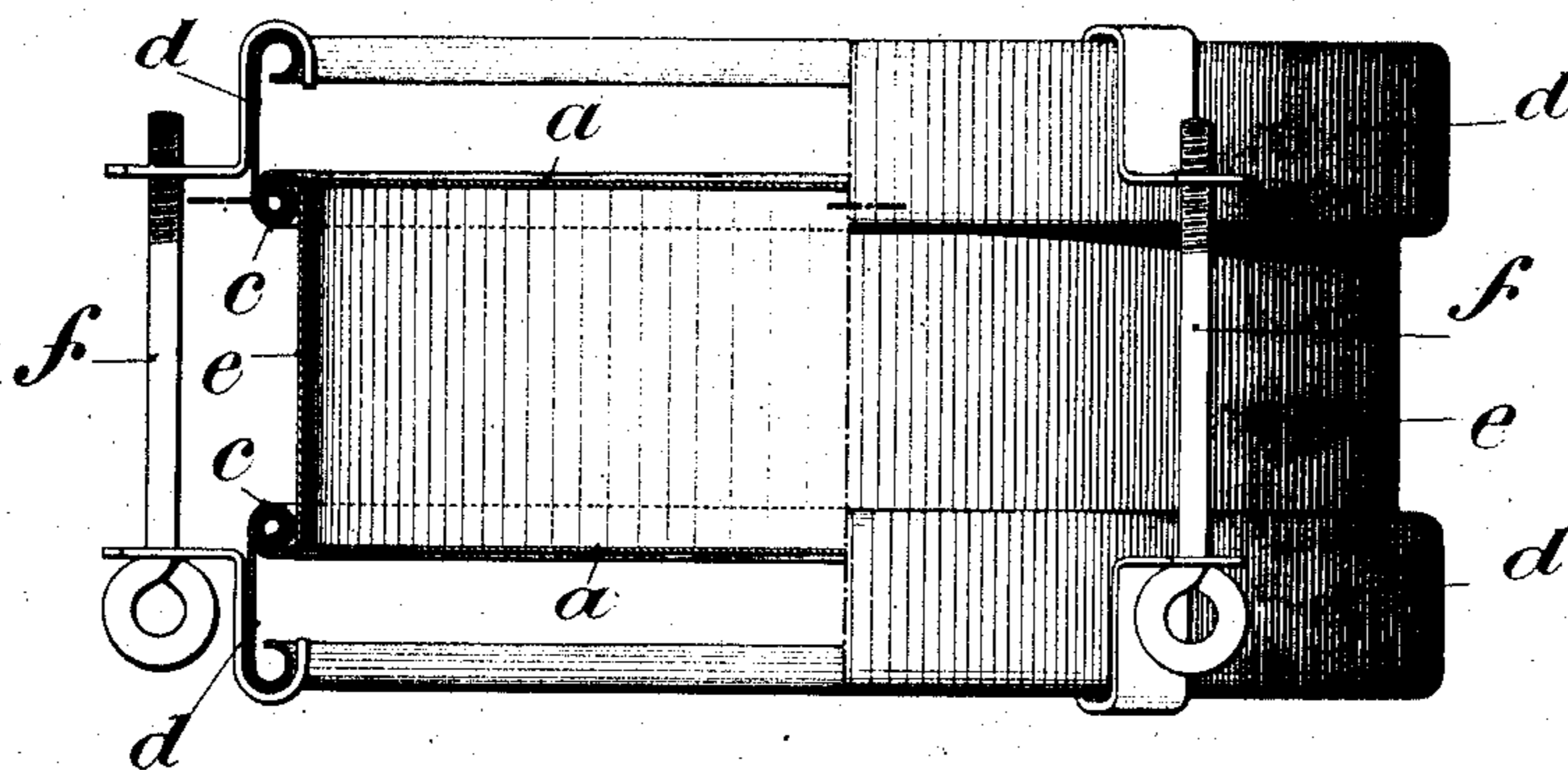
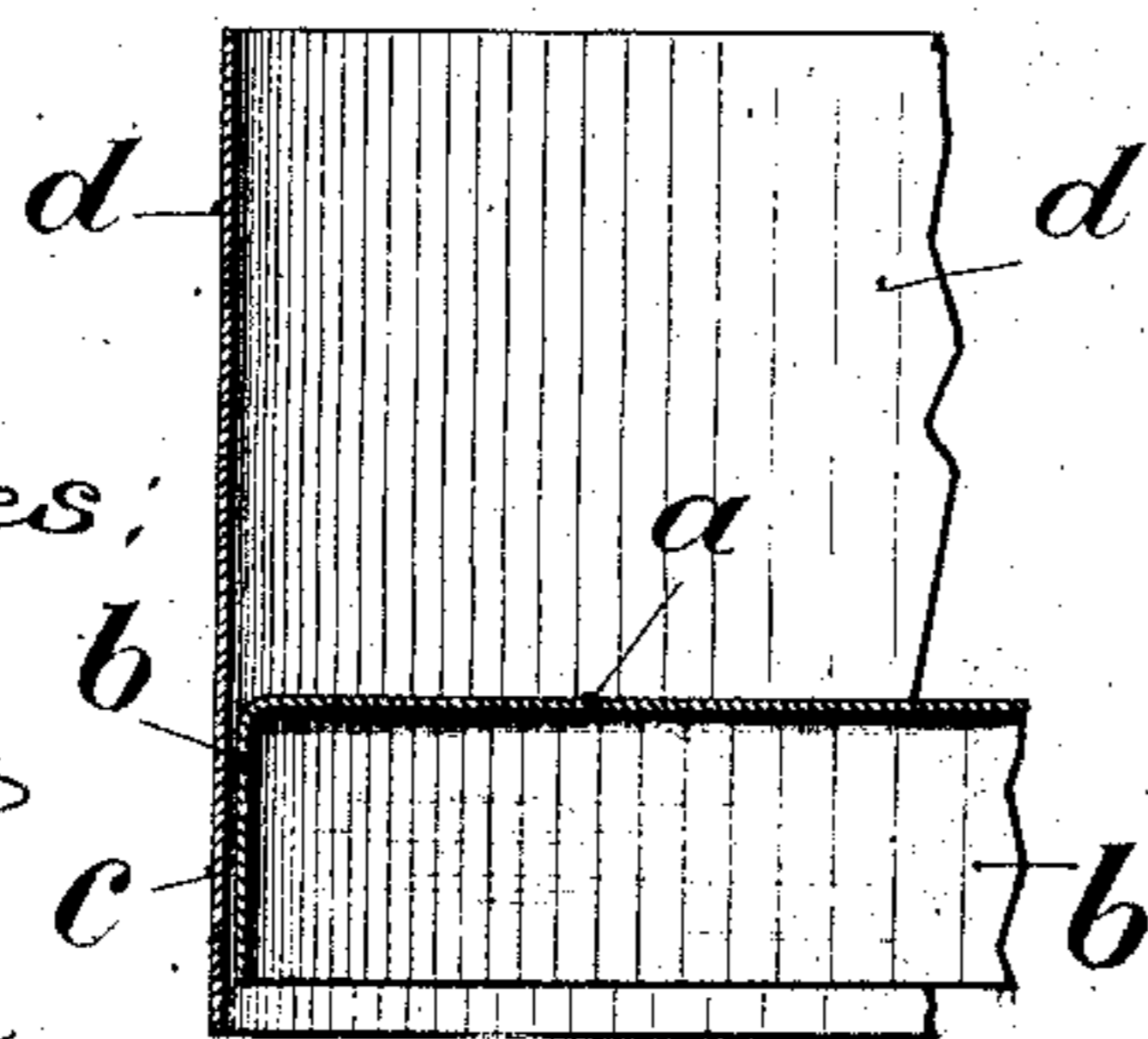


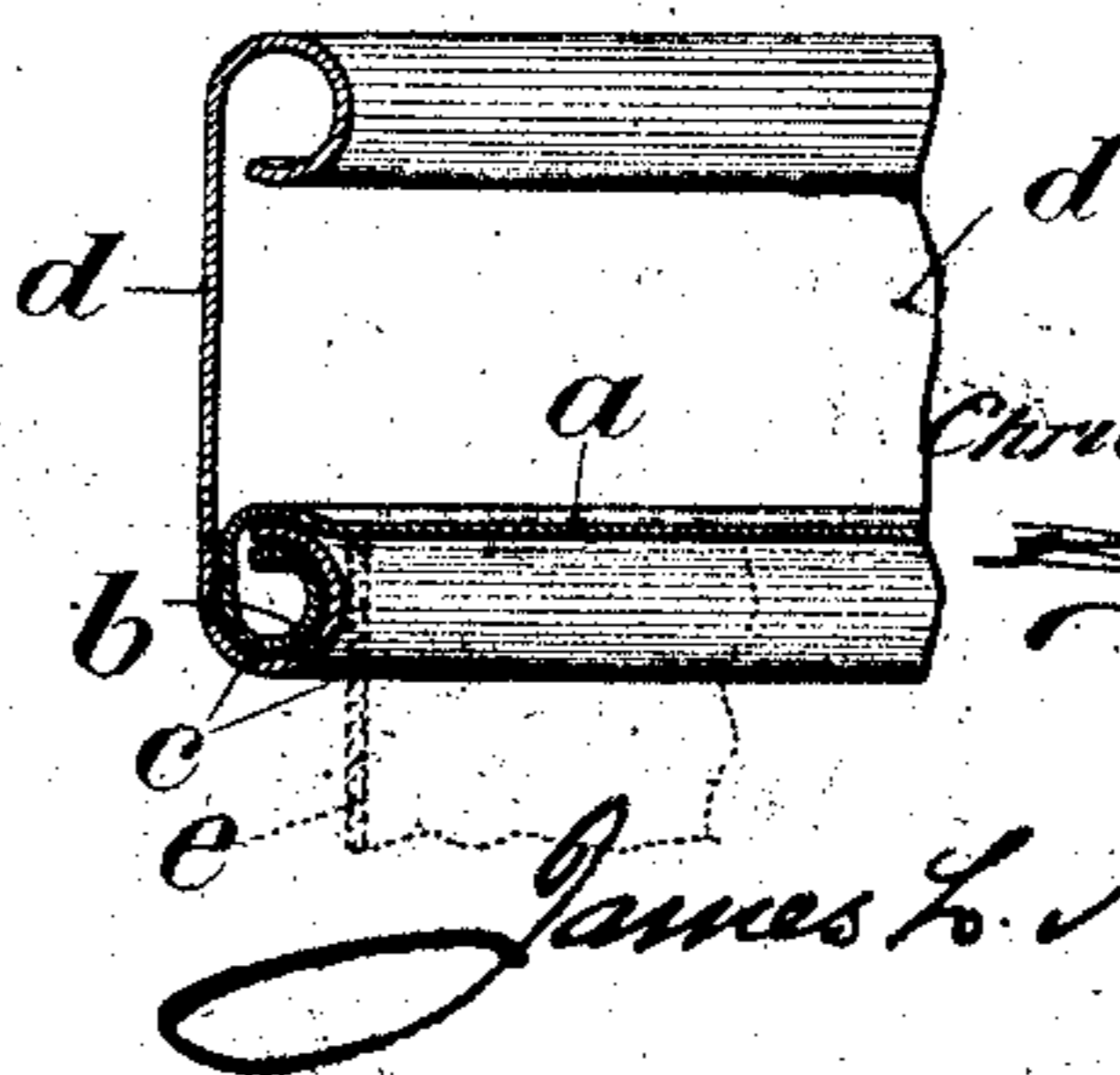
Fig.3.



Witnesses:

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Fig.4.



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UNITED STATES PATENT OFFICE.

CHRISTIAN POLAND, OF ERFURT, GERMANY.

CONSTRUCTION OF DRUMS.

No. 887,016.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed September 30, 1907. Serial No. 395,195.

To all whom it may concern:

Be it known that I, CHRISTIAN POLAND, manager, a subject of the King of Bavaria, residing at Erfurt, Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in or Relating to the Construction of Drums, of which the following is a specification.

In all hitherto known methods of securing the skin or skin substitute, hereinafter called the "drum head", on the stretching hoops for drums, tambourines, and the like, it is necessary to have, in addition to the stretching hoop proper, an auxiliary hoop or ring made of wood, cardboard or the like to secure the "drum head" to the stretching hoop, the said auxiliary hoop being placed between the turned over flanges of the stretching hoop. According to this invention the use of such auxiliary hoop or ring becomes unnecessary, and the stretching hoop is thus rendered lighter, of better appearance and cheaper.

According to this invention the "drum head" provided with a vertically turned over flange or edge, is inserted in an exact fitting manner into the edge of the stretching hoop in such manner, that the outside edge of the flange is approximately flush with one edge of the stretching hoop, and then the said edge of the stretching hoop, together with the flange of the drum bottom, is tightly rolled inwards.

A construction of a drum provided with a "drum head" secured in such manner, is illustrated by way of example in the accompanying drawing which also shows a preliminary stage of the process.

Figure 1 is a side elevation of the drum partly in section. Fig. 2 is a plan partly in section; and Figs. 3 and 4 show the stretching hoop with "drum head" before and after the rolling.

The "drum head" *a* made of sheet metal, celluloid or the like, is provided at the edge with a vertical flange *b* (Fig. 3) and is inserted with the said flange into the part *c* of the stretching hoop *d*, in such manner that the outer edge of the flange coincides with the

edge of the stretching hoop or is a little behind it. The edge *c* of the stretching hoop *d* is then rolled tightly inwards together with the flange *b* (Figs. 1, 2 and 4).

If the "drum head" consists of sheet metal, celluloid or the like, it is sufficient to roll it inwards tightly only once, but if skin be used, the rolling in will be suitably effected so that the skin should be held perfectly securely between the rolled up sheet metal walls of the stretching hoop *d*. The hoops *d* have their outer edges bent inwardly or rolled to form beads, as clearly shown by Fig. 4, and said hoops are applied over opposite ends of the drum body *e* and connected to it in a well known manner by stretching screws *f*, the "drum head" *a* being at the same time stretched.

What I claim is:

1. The combination of a drum body, heads having flanges, stretching hoops having edges engaging the flanges of the heads, the edges of the stretching hoops and the flanges of the heads being interlocked by rolling them together, and stretching means engaging the hoops.

2. The combination with a drum body, of heads having flanges, stretching hoops having inner portions engaging the flanges of the heads, the flanges of the heads and inner portions of the hoops being rolled to form interlocking means with relation to each other, and stretching devices engaging the outer portions of the hoops.

3. The combination with a drum body, of heads applied to the body, stretching hoops having inner extremities locked to the heads by rolling the engaging portions of the hoops and heads, and stretching means engaging the outer portions of the hoops and adjustable to regulate the tension of the heads.

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

CHRISTIAN POLAND.

Witnesses:

FRITZ SCHNELL,

ERNST EBERHARDT.