

No. 709,602.

Patented Sept. 23, 1902.

H. L. JENKINS & O. F. F. ROHLMANN.

ELECTRIC BRANDER.

(Application filed Mar. 31, 1902.)

(No Model.)

Fig. 1.

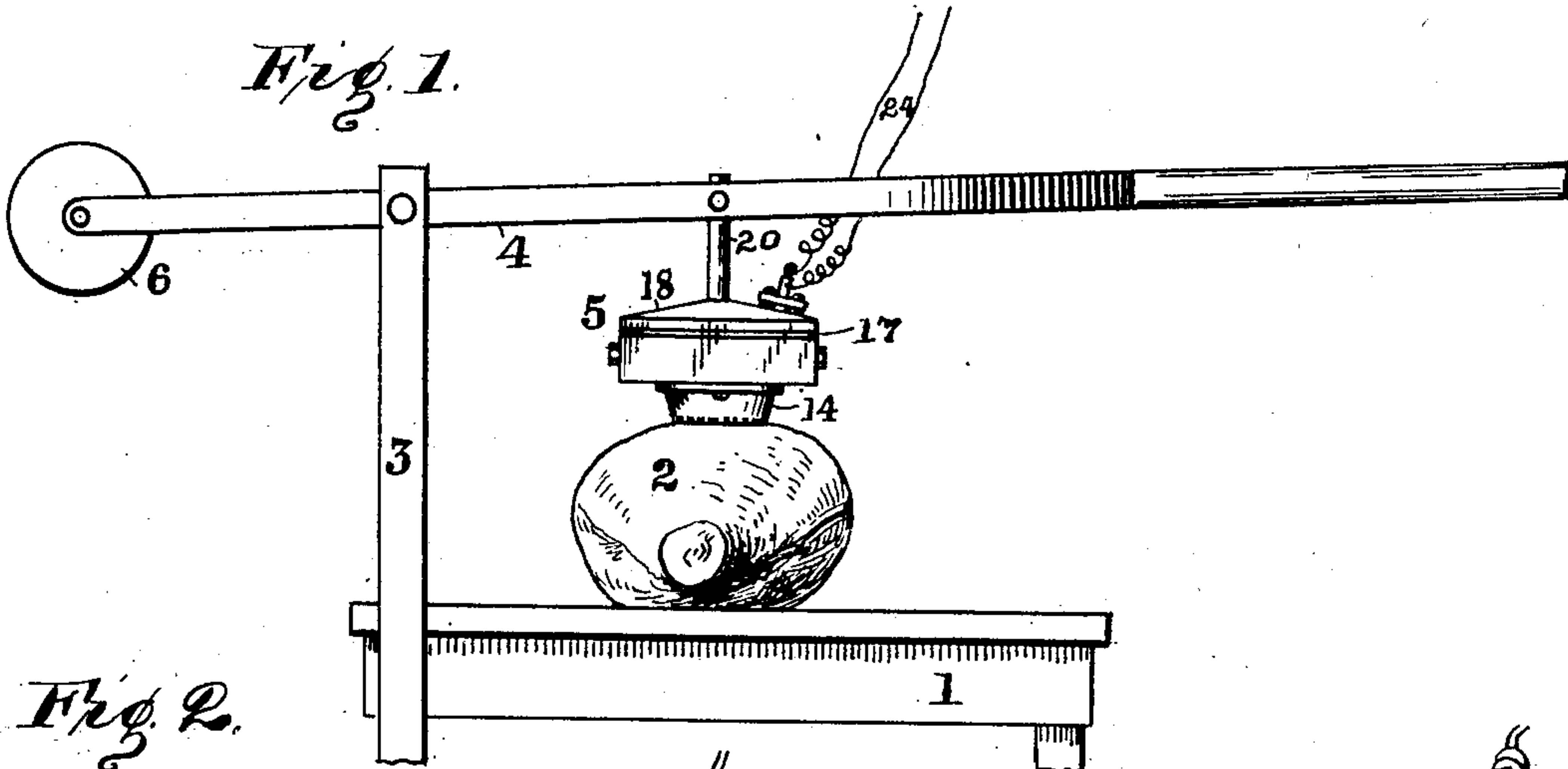


Fig. 2.

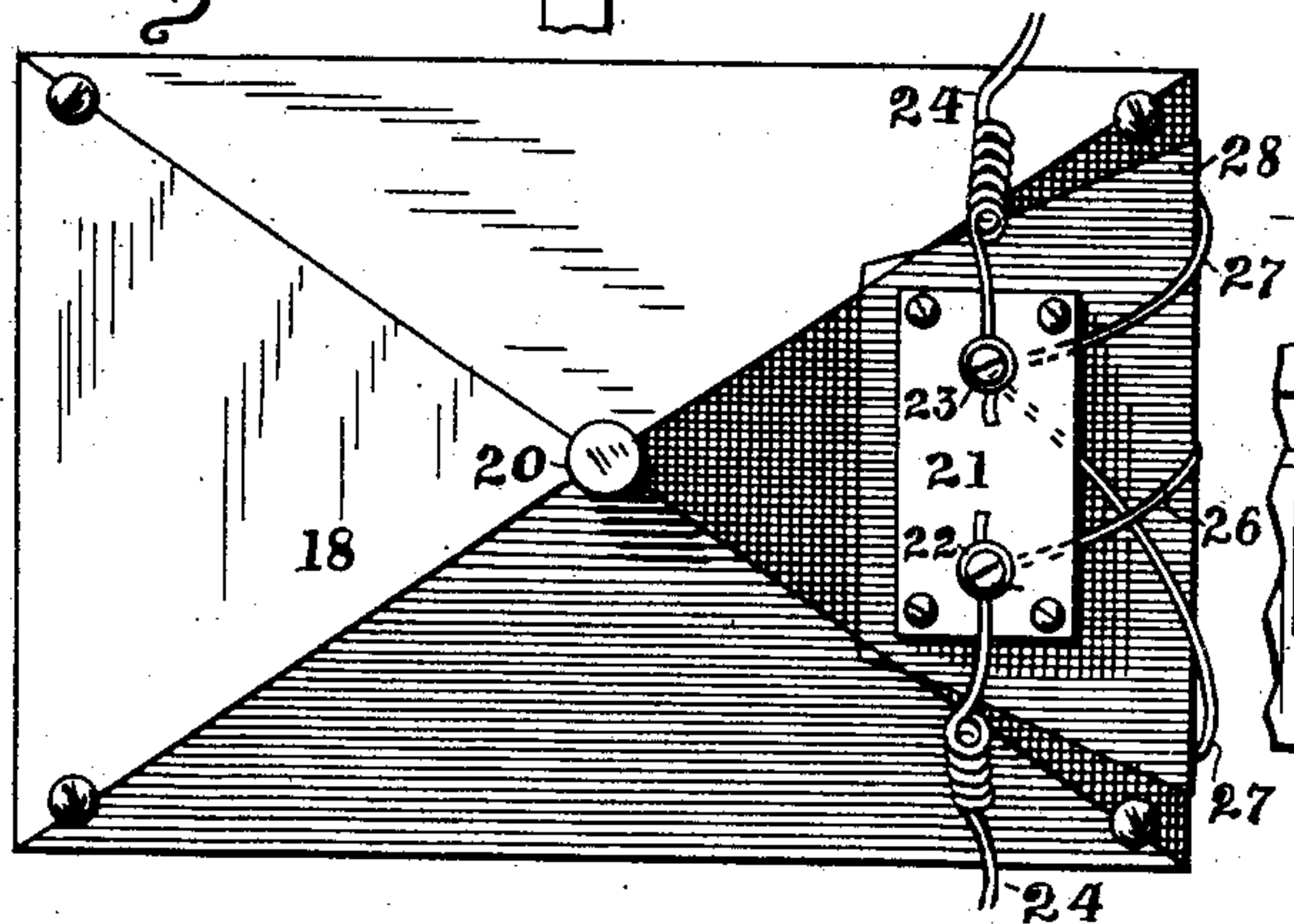


Fig. 4.

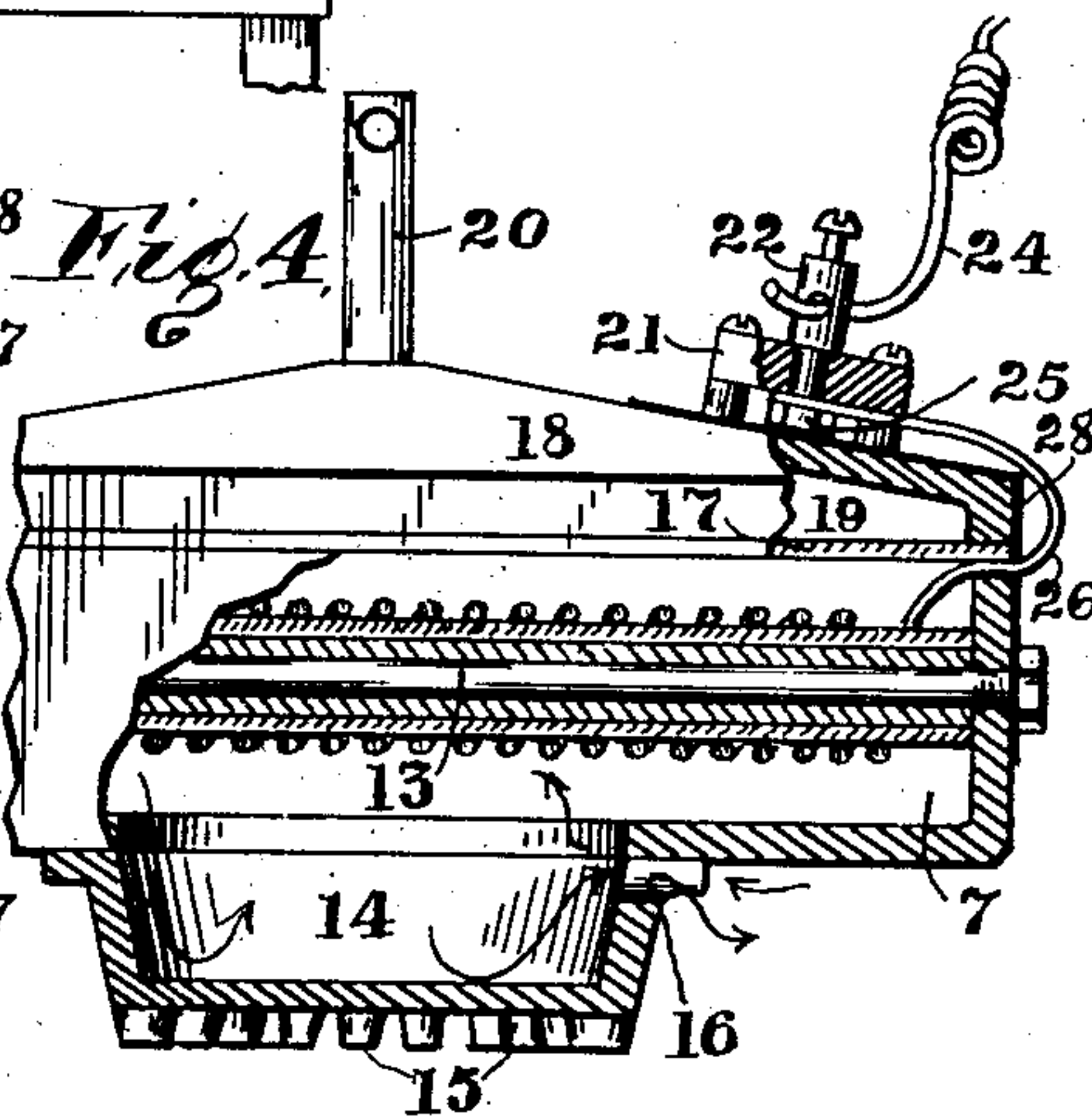
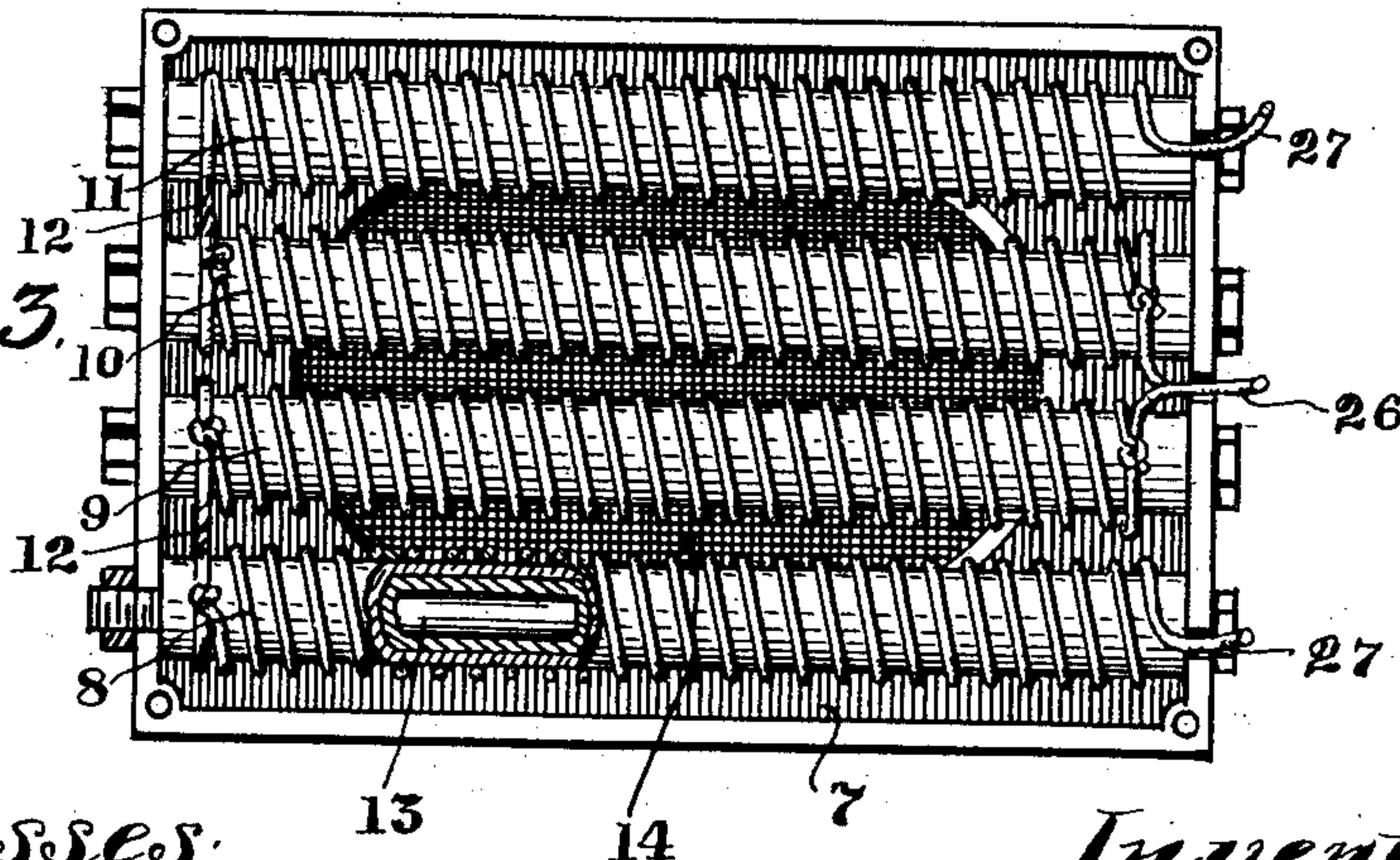


Fig. 3.



Witnesses;

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# UNITED STATES PATENT OFFICE.

HARRY L. JENKINS AND OSCAR F. F. ROHLMANN, OF INDIANAPOLIS,  
INDIANA, ASSIGNORS OF ONE-THIRD TO MAX DAVIDS, OF INDIAN-  
APOLIS, INDIANA.

## ELECTRIC BRANDER.

SPECIFICATION forming part of Letters Patent No. 709,602, dated September 23, 1902.

Application filed March 31, 1902. Serial No. 100,872. (No model.)

*To all whom it may concern:*

Be it known that we, HARRY L. JENKINS and OSCAR F. F. ROHLMANN, citizens of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Electric Brander, of which the following is a specification.

This invention relates to improvements in means for heating branding-irons, and is specially adapted to the heating of irons for branding hams, bacon, and the like, for branding beer and other kegs and barrels, boxes, and many other articles and objects.

The object of the invention is to provide means for electrically heating the branding-iron to practical temperature without melting or quickly burning out and destroying the metal coils through which, by means of an electric current, the heat is generated.

A further object is to provide a cheap, durable, and easily-operated device.

We accomplish the objects of the invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a branding table and outfit equipped with our invention; Fig. 2, a top or plan view of our improved device detached from the operating lever and table; Fig. 3, a plan view of the heating-box with the top or lid removed, and Fig. 4, a detail in side elevation and partial vertical section of our improved branding instrument.

Like characters of reference indicate like parts throughout the several views of the drawings.

1 represents a table of any usual and convenient form, upon which the article, as a ham 2, is placed for branding. 3 is a standard extending upwardly therefrom, and 4 a lever pivotally supported by said standard.

5 is our improved branding-iron, which is pivotally secured to and suspended from said lever. The iron 5 is raised and lowered to bring it into contact with and to remove it from the ham in the process of branding by means of the lever 4. It is balanced by means of the counterweight 6.

Our heating apparatus is in many respects similar to the well-known electric heaters

used for many purposes. It comprises, essentially a hollow box 7 of rectangular form, between the end walls of which are supported the four heating-coils 8, 9, 10, and 11, preferably of iron wire, which are connected in series by the copper wires 12, as shown in Fig. 3. Each of these coils is supported upon a rod 13, preferably of iron, and between said rod and the wire coils is first, next to the rod, a sleeve of porcelain and next a sleeve of asbestos. The bottom of this box 7 has a central opening which leads into the depression or subbox 14, to the outer wall or bottom of which on the outside are arranged the letters or characters 15 of the brand. The subbox 14 has an opening to atmosphere at 16, which allows the superheated air to escape, and it is this circulation of air that preserves the heating-coils from rapid destruction. The box 7 is first covered with a sheet of asbestos 17, and upon this sheet is placed the cover of iron 18. The latter is protected from the intense heat from the coils by the asbestos cover. A dead-air space 19 is also provided as a non-conductor of heat. This cover 18 has the bar 20, with an eye at its top by means of which it is suspended from the lever 4.

Secured to the top of the cover 18 with an air-space between it and the cover is a slate insulating-block 21, to which is fastened the two binding-posts 22 and 23. To the upper end of these posts are secured the wires 24, leading in from any convenient electric current of eight hundred and eighty watts of about one hundred and ten volts. Nuts 25, screwing upon the threaded ends of the binding-post screws below block 21, afford attachment for the wires leading to the heating-coils. The wire 26 is electrically connected with post 22, and the wires 27 27 from the outside coils are connected with the post 23. The insulation of the end of the cover and box adjacent to the above-described wires is made by a cover of asbestos 28.

Having thus fully described our invention, what we claim as new, and wish to secure by Letters Patent of the United States, is—

1. In an electric brander, a heating-box containing a plurality of electrically-connected

heating-coils, a subbox or depression from the bottom of the heating-box having outside branding characters, said subbox having communication with the outside air and a cover  
5 for the heating-box having a dead-air space.

2. In an electric brander, a heating-box containing a plurality of electrically-connected heating-coils, a subbox or depression from the bottom of the heating-box having outside  
10 branding characters, said subbox having communication with the outside air, and a cover for the heating-box having a dead-air space therein, binding-posts, a supporting-plate for said posts of material which is a poor conduc-

tor of electricity, said plate supported above 15 the cover of the box to provide an air-space between it and said cover, electric-current-supply wires connecting with said binding-posts and wires connecting the posts with the heating-coils. 20

In witness whereof we have hereunto set our hands and seals, at Indianapolis, Indiana, this 4th day of March, A. D. 1902.

HARRY L. JENKINS. [L. S.]

OSCAR F. F. ROHLMANN. [L. S.]

Witnesses:

JOSEPH A. MINTURN,  
MAX DAVIDS.