

No. 834,215.

PATENTED OCT. 23, 1906.

R. MARTIN.
BRIQUET MAKING PRESS.
APPLICATION FILED JAN. 22, 1906.

2 SHEETS—SHEET 1.

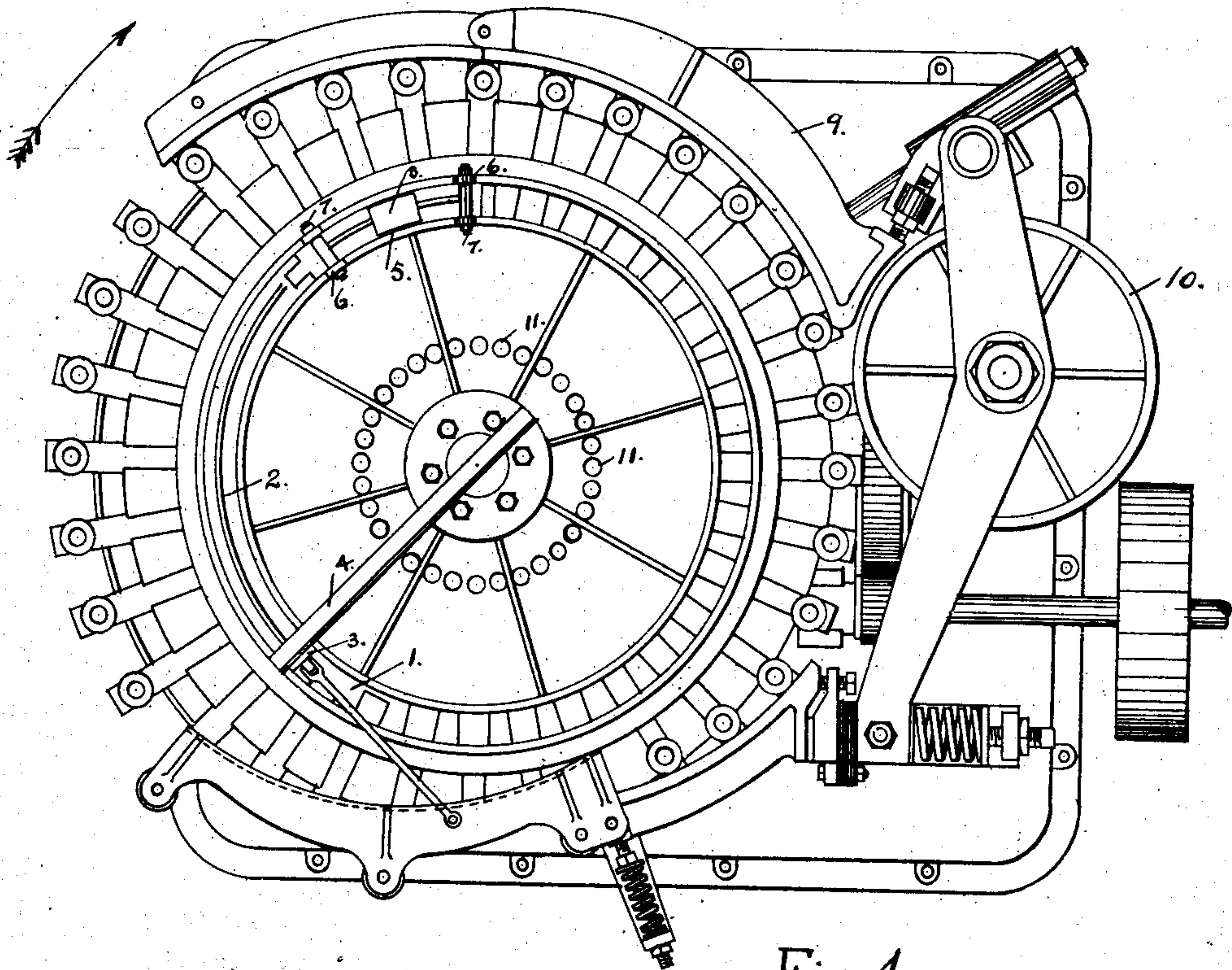


Fig. 1.

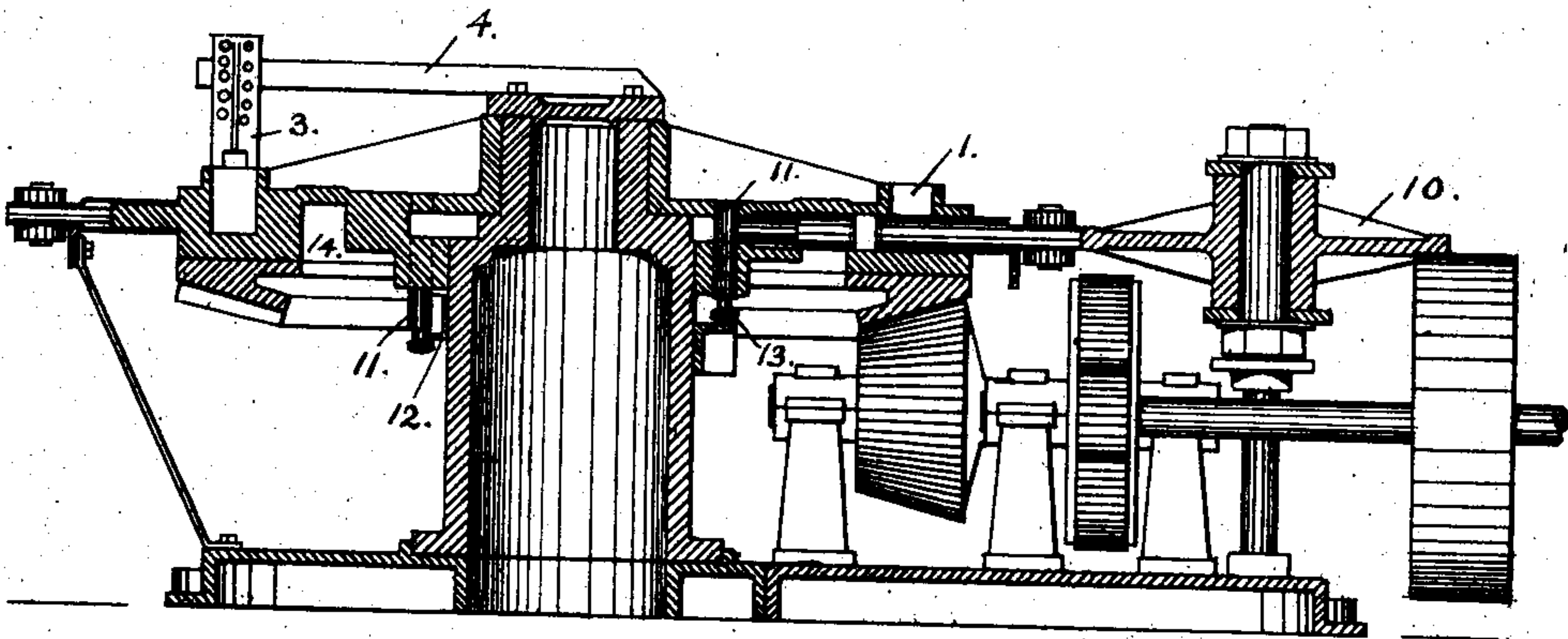


Fig. 2.

WITNESSES:

Alfred Bull
B. F. Hathaway

INVENTOR.

Richard Martin

BY

L. C. Christie
ATTORNEY.

No. 834,215.

PATENTED OCT. 23, 1906.

R. MARTIN.
BRIQUET MAKING PRESS.
APPLICATION FILED JAN. 22, 1906.

2 SHEETS—SHEET 2.

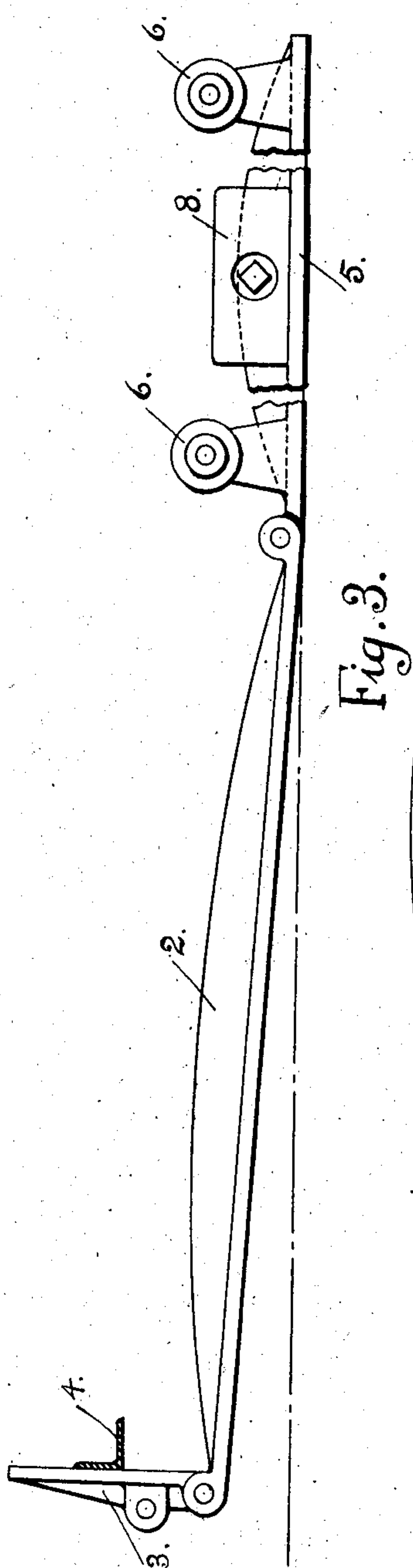


Fig. 3.

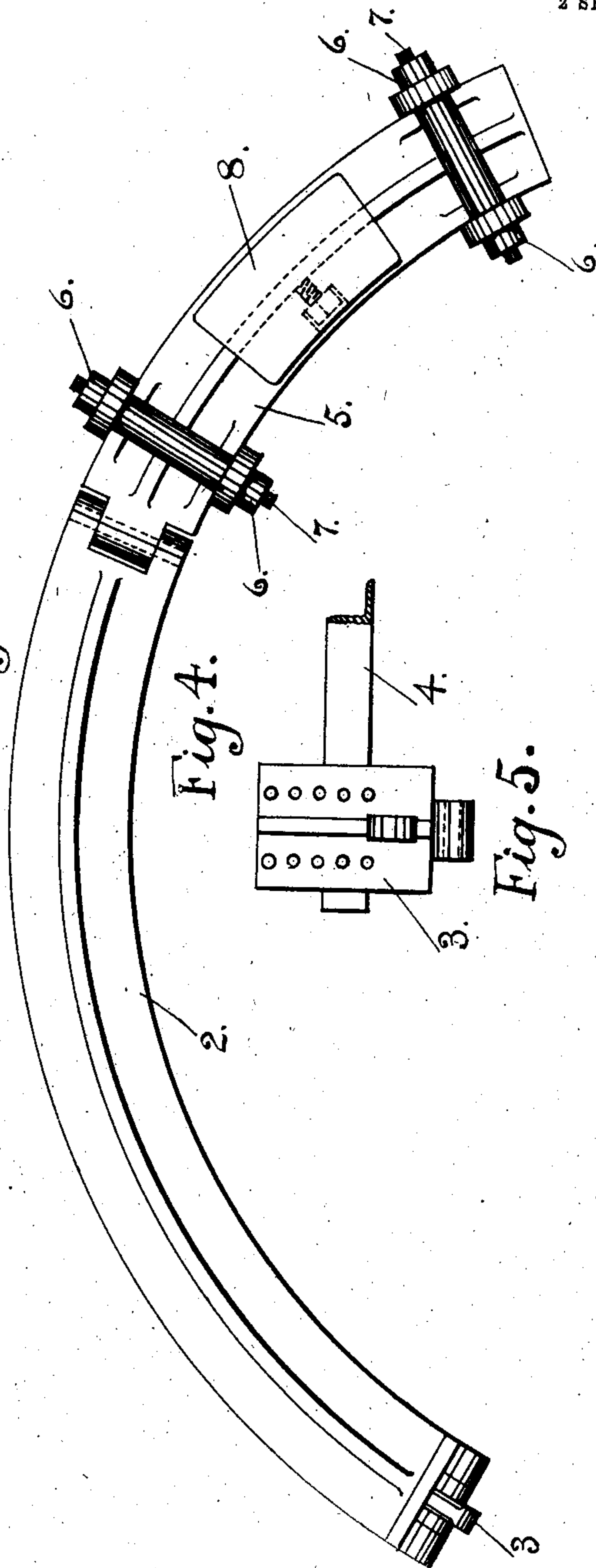


Fig. 4.

Fig. 5.



Fig. 6.

WITNESSES:

Alphens Bull

B. F. Hathaway

INVENTOR.

Richard Martin.

BY

L. C. Christie.
ATTORNEY.

UNITED STATES PATENT OFFICE.

RICHARD MARTIN, OF OAKLAND, CALIFORNIA.

BRIQUET-MAKING PRESS.

No. 834,215.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed January 22, 1906. Serial No. 297,164.

To all whom it may concern:

Be it known that I, RICHARD MARTIN, a citizen of the United States, residing at 1226 Broadway, Oakland, in the county of Alameda, State of California, have invented certain new and useful Improvements in Briquet-Making Presses, of which the following is a description.

My invention relates to improvements in briquet-presses by which the material to be compressed is caused to be gradually compressed into a compact mass and thus held while forced into the molds by exterior plungers and also the finishing effect of compression-wheel on the briquet, together with the resistance-pins for interior plungers and cams actuating these pins.

My invention consists of a semicircular inclined plane and compression-plate extending partly around and fitting freely into the annular feed-channel, together with compression-wheel, resistance-pins, and their actuating-cams, as will be hereinafter fully described, and pointed out in the claims at the end of this specification.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of briquet-press. Fig. 2 is an elevation of same. Fig. 3 is an elevation of semicircular inclined plane and compression-plate combined. Fig. 4 is a plan view of same. Fig. 5 is an end elevation of vertical plate attached to said semicircular inclined plane and adjusting the inclination thereof, and Fig. 6 is an adjustable brace or stay-rod for said vertical plate.

Similar numbers refer to similar parts throughout the several views.

In Fig. 1 and Fig. 2, where the press is shown as a whole, the annular feed-channel 1, receiving the material to be compressed, will as the press revolves pass the said material under the inclined plane 2, fitting freely into the feed-channel 1. This inclined plane 2 being stationary is attached to vertical plate 3 by a hinged joint. Said vertical plate 3 is bolted to an angle-iron 4, supported from and attached to central stand of press, and this vertical plate 3 has a series of holes by which it is made adjustable, giving the inclined plane 2 more or less inclination as wanted. To this inclined plane 2 is attached a compression-plate 5, also circular in form and supported on rollers 6, turning on pins 7, and having a weight 8 attached on its back,

the purpose being that the compression-plate 5 will be kept at such a level as to allow exterior plungers to pass freely under the same by reason of rollers resting on rims of feed-channel, and the material is thus partly compressed or solidified by passing in under the inclined plane 2 and further under the compression-plate 5 and in this state by action of exterior plungers forced into the molds and up against the faces of interior plungers brought out in position. Now as the press revolves and the rollers on exterior plungers roll against the faces of hinged cam 9 the material is gradually compressed and the ends of exterior plungers will next pass up against the face of a compression-wheel 10, receiving the final and finishing pressure on the briquet. The resistance to this successive and gradual pressure is all the while taken up by the resistance-pins 11, said pins 11 moved up in position for said purpose by cam 12 and down by cam 13 as the finished briquet is to be discharged through annular discharge-channel 14 and the interior plungers are to move inward across the annular discharge-channel 14, leaving the same clear and unobstructed. It is thus seen that the functional connection of operative parts on the material fed into said feed-channel is interdependent and continuous.

I am aware that the general operation of briquet-press is described and granted in Patent No. 712,696, November 4, 1902, to myself, and I do not, therefore, claim the same broadly; but

What I claim as new, and desire to obtain by Letters Patent, is—

1. The combination in a briquet-press of an annular feed-channel with an inclined plane 2, a vertical plate 3, having hinged connection to said inclined plane 2 means for securing said vertical plate 3 in a stationary position and means for adjusting the degree of inclination of said inclined plane 2.

2. The combination in a briquet-press of an annular feed-channel with inclined plane 2, a hinged extension or compression plate 5 to said inclined plane 2 means for supporting said hinged extension of inclined plane 2 and means for exerting a downward pressure on said hinged extension 5.

3. The combination in a briquet-press of an annular feed-channel having material fed into said feed-channel, with an inclined plane 2 packing said material, an extension 5 to said inclined plane 2 keeping said material

packed while fed into molds and means for exerting a finishing compression on said material while held in said molds during operation of said press.

5 4. The combination in a briquet-press of an annular feed-channel with an inclined plane 2 packing material fed, an extension 5 to said inclined plane 2 keeping said material packed while fed into molds, means for ex-
10 erting a finishing compression on said material while held in said molds and means for receiving the thrust of compressive action upon said material while the press is in operation.

15 5. The combination in a briquet-press of

an annular feed-channel with an inclined plane 2 packing material fed, an extension 5 to said inclined plane 2, means for exerting a finishing compression, means for receiving the compressive action or resistance on in- 20terior plungers and means for engaging and releasing the said resistance, while the press is in operation.

In testimony whereof I have signed my name to this specification in the presence of 25 two subscribing witnesses.

RICHARD MARTIN.

Witnesses:

ALPHEUS BULL,
B. F. HATHAWAY.