

CUFF PRESS.

APPLICATION FILED JUNE 12, 1908.

952,721.

Patented Mar. 22, 1910.

3 SHEETS—SHEET 1.



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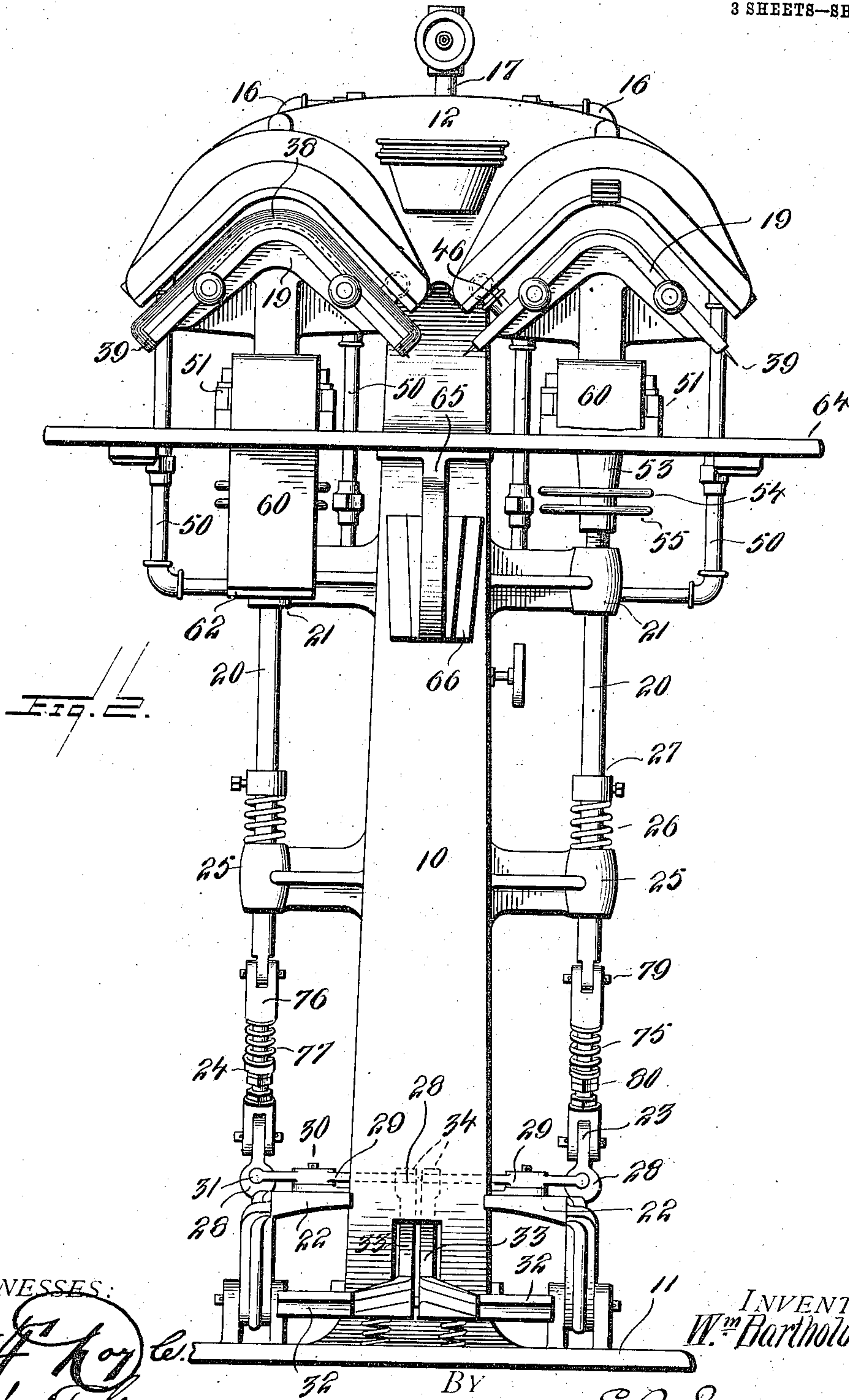
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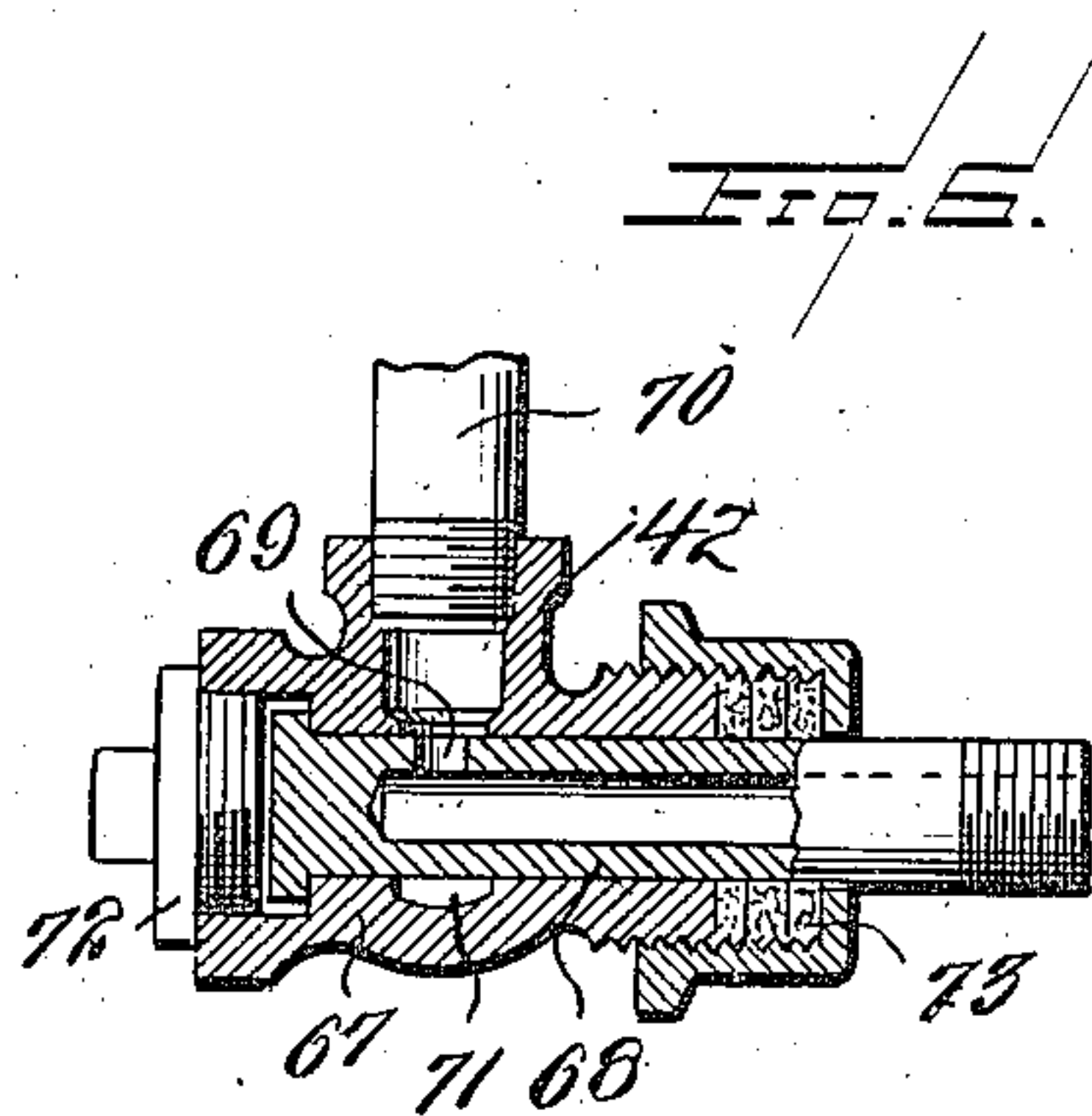
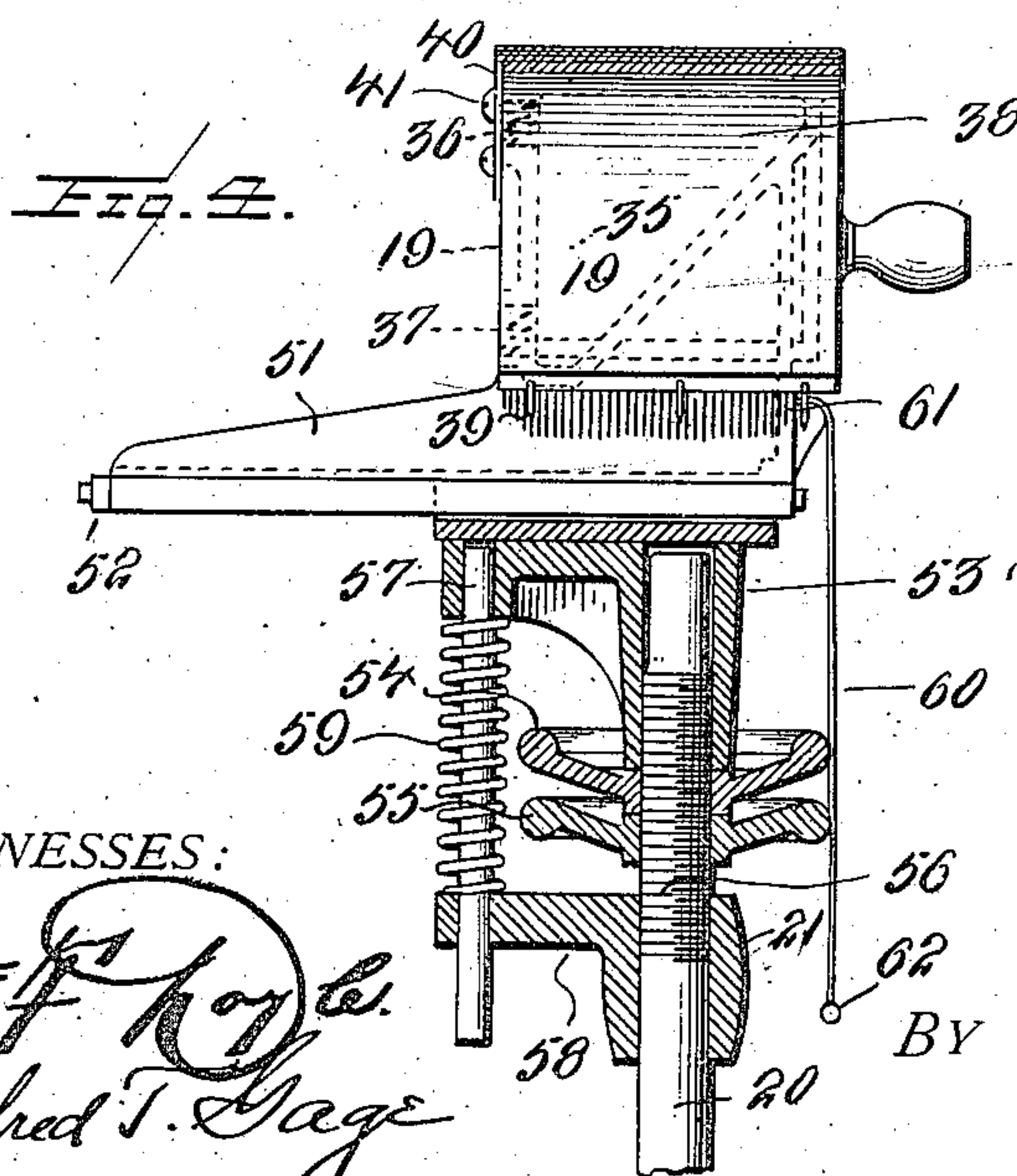
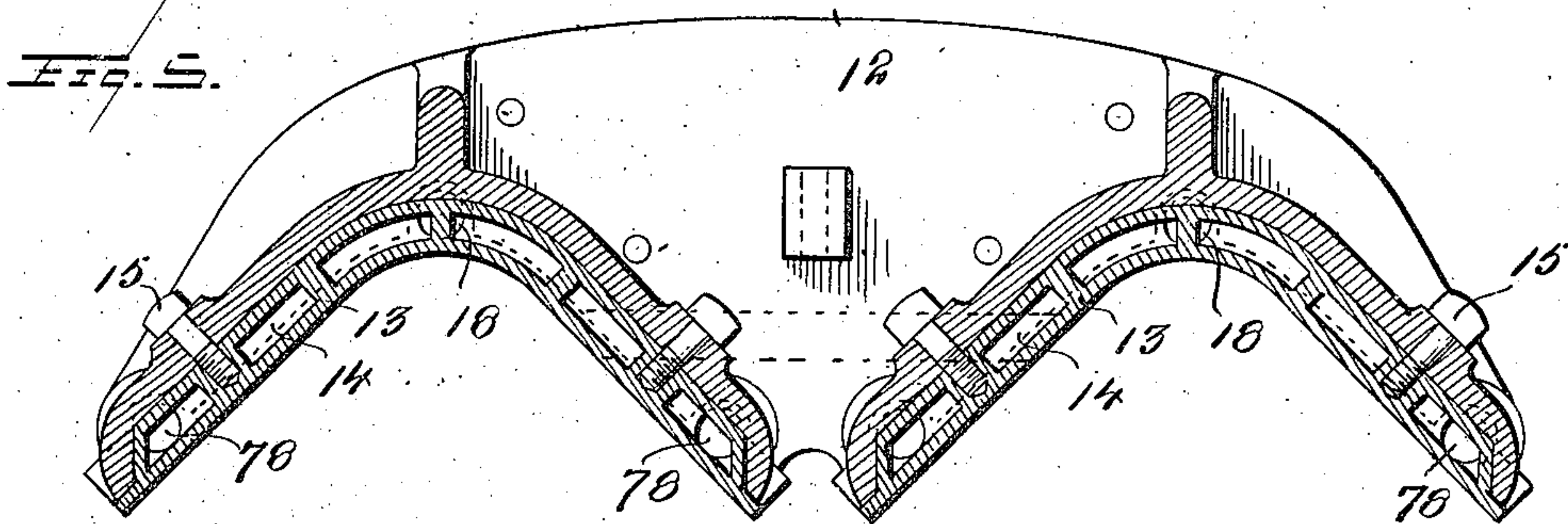
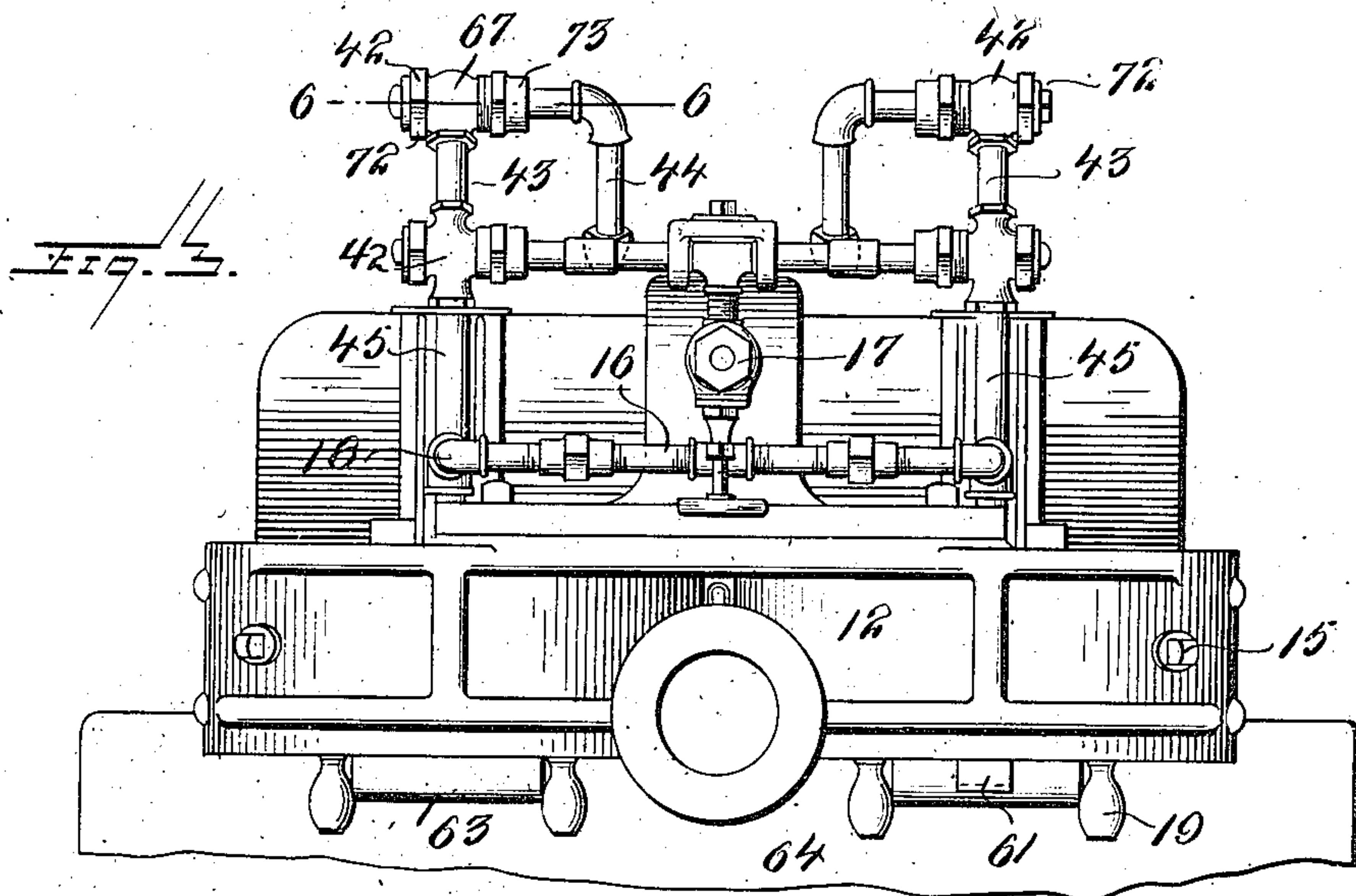
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

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CUFF-PRESS.

952,721.

Specification of Letters Patent. Patented Mar. 22, 1910.

Application filed June 12, 1908. Serial No. 438,217.

To all whom it may concern:

Be it known that I, WILLIAM BARTHOLOMEW, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Cuff-Presses, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a cuff press, and particularly to a structure for pressing laundered articles of any desired character between cooperating pressing members.

15 The invention has for an object to provide a clothed pressing member cooperating with a steam heated member having a steam connection therewith to permit its free movement toward and from the fixed member whereby the clothing upon the movable 20 member may be dried and heated when said member is out of contact with the fixed member of the press.

25 A further object of the invention is to provide means for retaining the clothing upon the movable member in proper position and to protect the goods carried by said member in the movement thereof laterally of the pressing head.

30 Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

35 In the drawing:—Figure 1 is a side elevation of the press; Fig. 2 is a front elevation with the clothing removed from one support; Fig. 3 is a plan of the press; Fig. 4 is a detail elevation with parts in section of the clothed member of the press; Fig. 5 is a vertical section through the head, and 40 Fig. 6 is a section on line 6—6, Fig. 3. Fig. 7 is a section of the toggle link of the treadle connection.

Like numerals refer to like parts in the several views of the drawing.

45 The numeral 10 designates the standard of the press which may be of any desired size or configuration and provided with the base 11. At the upper end of this standard a fixed pressing head 12 is secured which 50 may be provided with one or more pressing faces 13, these comprising steam chests having chambers 14 therein and removably secured to the head by means of the screws 15 extending therethrough, as shown in Fig. 5.

This steam chest is connected with an inlet 55 pipe 16 supplied from any suitable source 17 through the inlet ports 18 at the upper portion thereof. Cooperating with this steam headed chest or head is the movable pressing member 19 of which one or more may 60 be used, two being illustrated in the present instance, and each mounted upon the operating rod 20 therefor which is guided by suitable bearings 21 and 25 from the standard and adapted to be operated by a 65 pedal 22 having an angle arm 23 connecting to the toggle link 24. This link is formed with a threaded shank 75 upon which the connector 76 is secured by a pin 79 and held under tension by spring 77 adjusted by nut 70 80 on the shank, Fig. 7. The rod 20 passes through the bearing 25 and has a spring 26 interposed between said bearing and a collar 27 on said arm to form a yielding stop for the downward movement of the clothed 75 head as specifically shown and described in my application filed June 19, 1907, Serial No. 379,739. Where two of these rods are used they are adapted to be operated in alternation through the pedals 22, the angle 80 arm 23 of which is provided with a contact face 28 adapted to contact with the end of a releasing lever 29 which is pivotally mounted at 30 to contact at its end 31 with the 85 face 28 of the pedal 22. For the purpose of operating this lever an independent treadle 32 is provided and has its angular portion 33 disposed in the path of the end 34 of the lever 29 so as to rock the same and force the toggle link connection with the 90 treadle into the position shown in Fig. 1, when it is desired to withdraw one pressing member from the other. The treadles 22 and 32 are each deflected laterally from the plane of their pivots and are therefore 95 brought into the same vertical plane with the treadle 22 projected upward from the treadle 32 so that one may be operated by the heel and the other by the toe of an operator having his foot upon one of said treadles, 100 that is, when the treadle 22 is depressed to hold the pressing members in contact a movement of the toe of the operator will actuate the treadle 32 and drop or release the pressing members. 105

The clothed pressing member, 19, as shown by dotted lines in Fig. 4, is provided with a steam chamber 35 therein having an inlet

connection 36 and an outlet 37 therefrom, this member being clothed in any desired or usual manner, said clothing 38 being held in position thereon by means of the pins 39 at opposite sides thereof. The fixed and movable pressing members are suitably conformed to the configuration to be imparted to the article pressed and may be altered to conform to any object. This clothing is held against lateral slipping or play upon the head 19 by means of the stop 40 secured thereto by any desired means, for instance, the screws 41 at the rear of the head. This movable head is supplied from the steam inlet 17 by means of the movable joints 42 which are fed by the pipe 43 and have a connecting pipe 44 extending to the pipe 45 which communicates with the opening 36 of the movable head, while the outlet 37 from said head communicates with the pipe 46 having the movable joints 47 and connecting links 48 extending to the outlet or exhaust pipe 49. This pipe also has a connection 50 extending therefrom to the lowermost opening 78 in the steam chest 13 of the fixed head so as to conduct therefrom the condensed steam.

The movable pressing head is provided at its lower portion with a carriage 51 slidably mounted upon the way 52 carried at the upper end of the rod 20 and yieldingly held in position thereon by means of the sleeve 53 surrounding said rod and cooperating with the adjusting nut 54 bearing against the under surface thereof and the locking nut 55 cooperating therewith and threaded upon the upper portion 56 of the rod 20. This sleeve is also provided with the depending pin 57 extending through an aperture in a bracket 58 carried by the standard, said pin being surrounded by a tension spring 59 which normally holds the sleeve and parts carried thereby in their lifted position. This mounting of the movable head upon the carriage permits its withdrawal for the application and removal of articles thereto, as shown in Fig. 1, and the head is provided at its front with an apron 60 of fabric or other material secured to the carriage at 61 and having its free end weighted at 62, this apron being extended through aperture 63 in the table or platform 64 applied to the front of the standard by means of the dove tail connection 65 interlocking with the cooperating ribs 66 upon the standard. It will be seen that in the forward motion of the carriages supporting the movable pressing members the apron is drawn upward through the table beneath the carriage, as shown in Fig. 1, to protect the goods against contact with the other parts of the machine.

For the purpose of effecting a continuous supply of steam to the movable pressing member, an improved form of connection is

shown at 42, 47 and 48 which comprises the casing 67 having inserted therein the pipe 68 provided with the aperture 69 adapted at all times to communicate with the feed pipe 70. The casing is also provided with the annular channel 71 surrounding the pipe 68 in the plane of the opening 69 therein, while the casing 67 is provided at one end with the cap screw 72 and at the other with the packed cap 73 surrounding the pipe 68. This connection permits the free vertical movement of the movable head both toward and from the fixed head and laterally outward therefrom.

In the operation of the invention it will be seen that the goods to be pressed or ironed are placed upon the movable member when withdrawn in the position shown in Fig. 1, and this head is then inserted beneath the fixed head and the movable head raised by means of pressure upon the proper lever, while the trip lever may be operated to relieve said head whenever desired. The movable head may be adjusted to secure the proper length of travel by the screw upon the treadle connecting rod and when provided with the apron prevents soiling or injury of the goods from contact with the operative parts of the mechanism. This movable member is also constantly steam heated thereby drying the clothing to maintain it in proper condition for continuous use and also for applying the proper degree of heat to the goods pressed thereon to facilitate the pressing action against the fixed head which is also steam heated. This fixed head may be duplicated as herein shown when it is desired to increase the capacity of the machine. The pivotal pipe connection with the movable head permits its free travel toward and from the fixed head in a vertical plane and also laterally thereof as may be necessary for the introduction and removal of the goods therefrom, and the pipe connection before described effects a continuous supply of steam to these parts. This fixed head may be provided, if desired, with an edger at the front for use in smoothing starched goods.

It will be seen that the invention presents a simple, efficient and economically constructed pressing apparatus in which the goods carrying member is adapted to be moved toward and from a cooperating pressing member and to be so heated as to properly dry the clothing thereon and thus materially increase the efficiency of the pressing or ironing operation, while the structure also permits the most rapid introduction and removal of the goods and their protection during such operation. The treadle connection provides for placing one or both heads under pressure when a plurality are used and also for tripping these heads as desired through the cooperating treadle connection.

Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a pressing apparatus, a standard
5 provided with a fixed steam chest, a goods support comprising a clothed steam chest mounted for movement toward and from said fixed chest and for reciprocation laterally into and out of alinement therewith,
10 a steam conducting pipe, a pipe connection from said clothed chest, and a swiveled toggle pipe joint between the conducting pipe and support connection to permit vertical and horizontal movement of said parts.
- 15 2. In a pressing apparatus, a standard provided with a fixed steam chest, a goods support comprising a clothed steam chest mounted for movement laterally into and out of alinement with said fixed chest, a
20 steam conducting pipe, a pipe connection to said clothed chest, and an angle coupling between said conducting pipe and connection comprising a casing mounted upon one of said parts and provided with an interior
25 circumferential channel and a pipe swiveled in said casing and provided with an aperture communicating with said channel.
3. In a pressing apparatus, a standard provided with a fixed steam chest, a goods
30 support mounted for movement toward and from said chest, a steam conducting pipe, a pipe connection to said support, a swiveled joint between said conducting pipe and support connection comprising a casing mounted
35 upon one of said parts and provided with an interior channel and a pipe swiveled in said casing and provided with an aperture communicating with said channel, a screw cap carried by the casing at the closed end
40 of said pipe, and a packing nut disposed at the opposite end thereof and surrounding said pipe.
4. In a pressing apparatus, a steam chest, a goods support mounted to reciprocate to-
45 ward and from said chest, a carriage for said support movable laterally of the chest, a table beneath one end of said carriage and a depending apron carried by the front of said carriage and extending to the rear of
50 said table.

5. In a pressing apparatus, a steam chest, a goods support mounted to reciprocate toward and from said chest, a carriage for said support movable laterally of the chest, an apertured table at the front of said support, and a flexible depending apron carried
55 by said support and extending through said aperture.

6. In a pressing apparatus, a steam chest, a goods support mounted to reciprocate toward and from said chest, a carriage for said support movable laterally of the chest, an apertured table at the front of said support, a flexible depending apron carried by
60 said support and extending through said aperture, and means carried by the lower end of said apron for retaining it under tension.

7. In a pressing apparatus, a steam chest, a cooperating goods support, a connecting
70 rod for moving one of said parts toward and from the other, a treadle having a toggle connection with said rod, a horizontally disposed tripping lever adapted at one end to engage a member of said toggle adjacent the joint thereof, and an auxiliary lever
75 mounted to engage the opposite end of the tripping lever, and having a foot piece of different length than the treadle lever and disposed in alinement with the main treadle
80 lever.

8. In a pressing apparatus, a steam chest, a goods support, a treadle connection for reciprocating said support comprising a rod threaded at its upper end, a sleeve carrying
85 said support and disposed upon said rod, an adjusting nut threaded upon the rod at the lower end of said sleeve, a fixed collar having a bracket therefrom, a depending rod from said sleeve extending through said
90 bracket, and a tension spring encircling said rod and disposed between said sleeve and bracket.

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

WILLIAM BARTHOLOMEW.

Witnesses:

J. HOERMANN,
WM. KROGMAN.