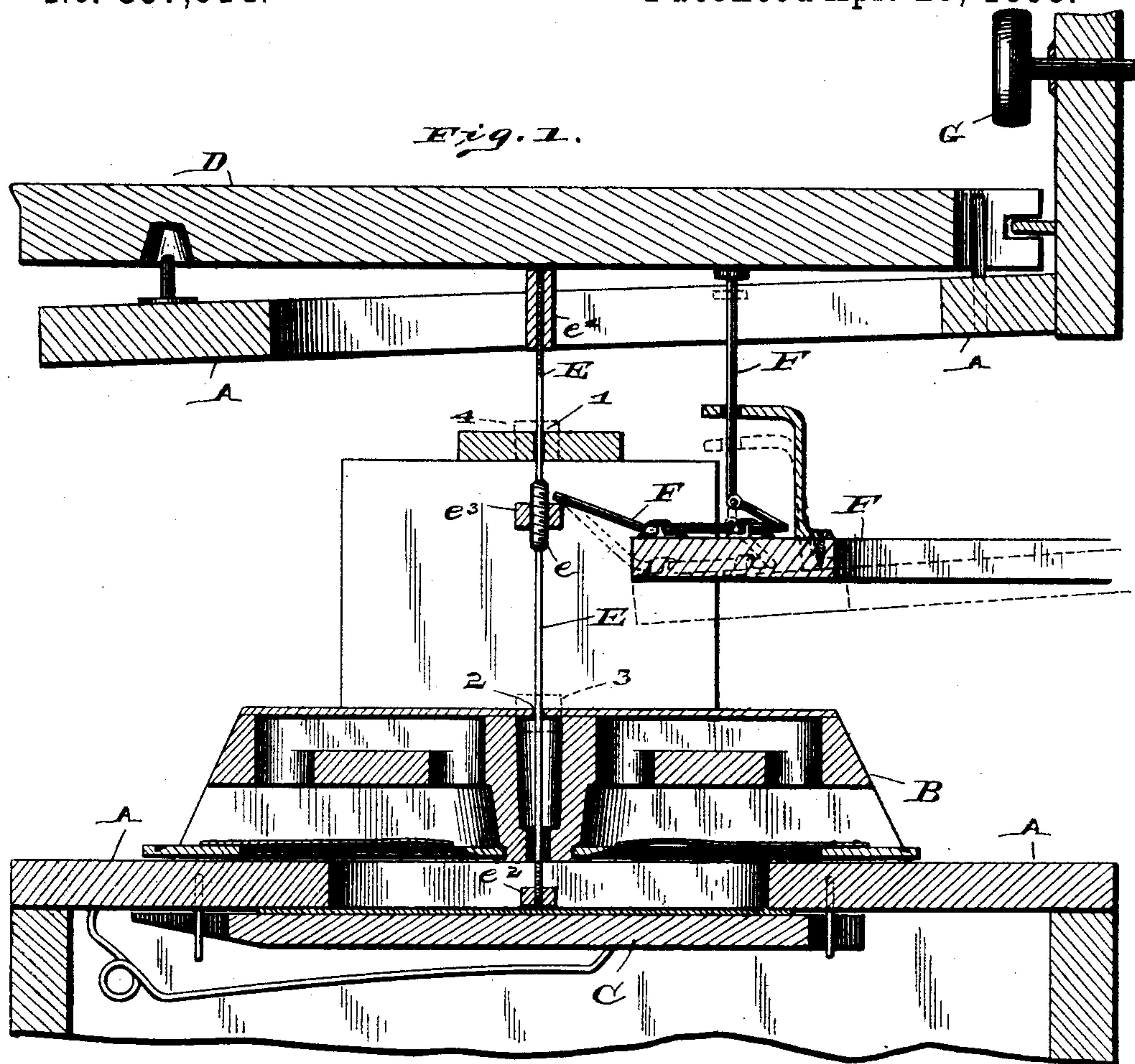


(No Model.)

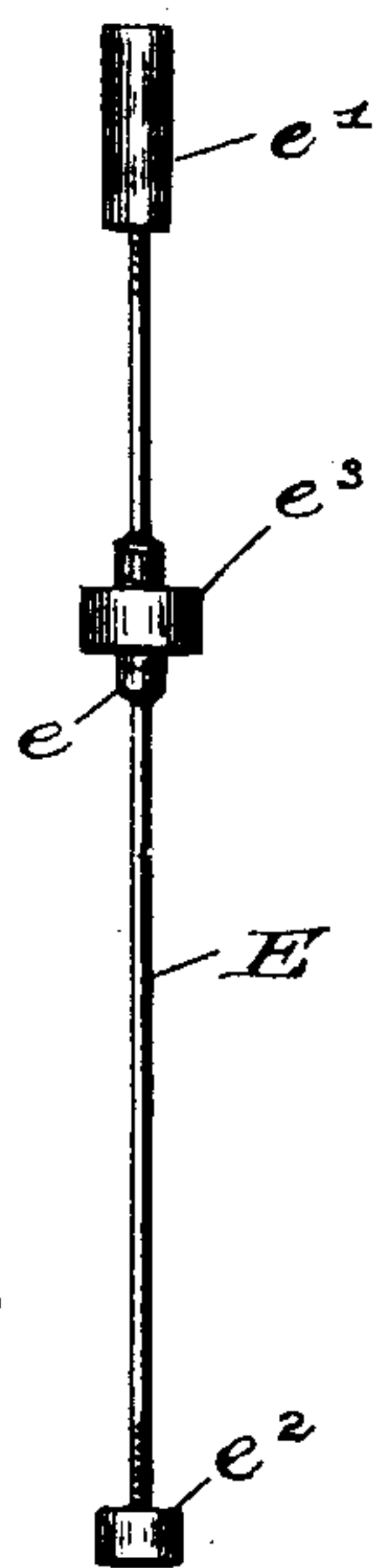
L. F. BOYD.  
PITMAN ROD FOR ORGANS.

No. 537,914.

Patented Apr. 23, 1895.



*Fig. 2.*



WITNESSES:

H. B. Neely,  
J. A. Walsh

INVENTOR

Lee F. Boyd,  
BY  
Chester Bradford,  
ATTORNEY.



# UNITED STATES PATENT OFFICE.

LEE F. BOYD, OF MARION, ASSIGNOR OF ONE-HALF TO ROBERT D. PETERS,  
OF ANDERSON, INDIANA.

## PITMAN-ROD FOR ORGANS.

SPECIFICATION forming part of Letters Patent No. 537,914, dated April 23, 1895.

Application filed December 19, 1894. Serial No. 532,324. (No model.)

*To all whom it may concern:*

Be it known that I, LEE F. BOYD, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have  
5 invented certain new and useful Improvements in Pitman-Rods for Organs, of which the following is a specification.

My said invention relates to the operating mechanism for organs; and it consists especially in improvements in the form and construction of the pitman rods or "tracker pins" by which the valves are operated from the  
10 keys.

Said invention will be first fully described, and the novel features thereof then pointed out in the claim.  
15

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters and figures of reference indicate similar parts, Figure 1 is a sectional view through the key-board of an organ showing, in the main, an ordinary mechanism, and Fig. 2 is a detail view of my improved pitman rod or tracker pin separately.  
20

In said drawings the portions marked A represent parts of the frame-work of an organ; B, a reed-case, containing the reeds; C, a valve; D, a key; E, my improved pitman rod or tracker pin; F, various parts of a coupler mechanism, and G a push button for throwing coupler mechanism into and out of operation. All these parts, except the pitman E, are or may be of any ordinary or desired construction, and, not being peculiar to my present invention, will not be further described herein, except incidentally in describing said invention. Said pitman rod E instead of being formed of wood, and non-adjustable, as has been common, is in the main formed of  
30 metal. It is threaded at each end, as shown, and carries preferably wooden buttons  $e'$  and  $e^2$  at the top and bottom ends thereof. At an intermediate point it has an enlargement  $e$ , which is also threaded, and carries a preferably wooden coupler button  $e^3$ . This pitman rod, being of metal, can be made very small, and consequently the perforations (as at 1 and 2) through which it passes, may be made correspondingly small, which is of advantage,  
45 especially in the case of the perforation at 2, for the reason that less air can escape and be wasted. The rod being of metal is also not affected by changes in the atmosphere, to any appreciable extent; and particularly it is not

subject to become swelled in moist weather, 55 which sometimes causes the wooden rods heretofore used to stick in the openings through which they pass. In all cases the least size makes the least friction, which makes the instrument play much more easily and freely. 60 Being threaded at the ends, the buttons  $e'$  and  $e^2$  are adjustable, so that the rod as a whole may be lengthened or shortened, and the dip of the keys thereby regulated. The coupler buttons  $e^3$  can also be adjusted as desired. The enlargement  $e$  is of great advantage, as by its use the coupler button  $e^3$  can be moved freely on and off the rod until it comes to such enlargement, and can then be tightly screwed thereon, and this makes it  
65 much more convenient to assemble and disassemble these parts, and, when assembled, they will firmly stay in place.

Besides the advantages of metal over wood, heretofore mentioned, the metal is proof 75 against the ravages of mice and insects. The smaller holes make the organs easier to pump on account of the smaller waste of air, and said smaller holes also prevent dust and dirt from being drawn through and clogging the  
80 valve.

In the illustration, Fig. 1, the construction is shown as it appears in cases where my improved pitman rod is applied to a new organ. It can also conveniently be applied to an old 85 organ by inserting plugs 3 and 4 in the larger orifices which are left when said wooden pitman rods are removed.

Having thus fully described my said invention, what I claim as new, and desire to secure 90 by Letters Patent, is—

The combination, in an organ, with the valve, key, and coupler mechanism, of a metallic pitman-rod, screw-threaded at the ends, and provided with preferably wooden adjustable buttons which come in immediate contact with such valve and key, and also having an enlarged and screw-threaded central portion, and a coupler button mounted on said enlarged portion, substantially as shown and  
95 described. 100

In witness whereof I have hereunto set my hand and seal, at Marion, Indiana, this 15th day of December, A. D. 1894.

LEE F. BOYD. [L. S.]

Witnesses:

AMANDA HAMAKER,  
H. G. HAMAKER.