

(No Model.)

N. RUBENSTEIN.
PIPE SADDLE.

No. 540,336.

Patented June 4, 1895.

Fig. 1.

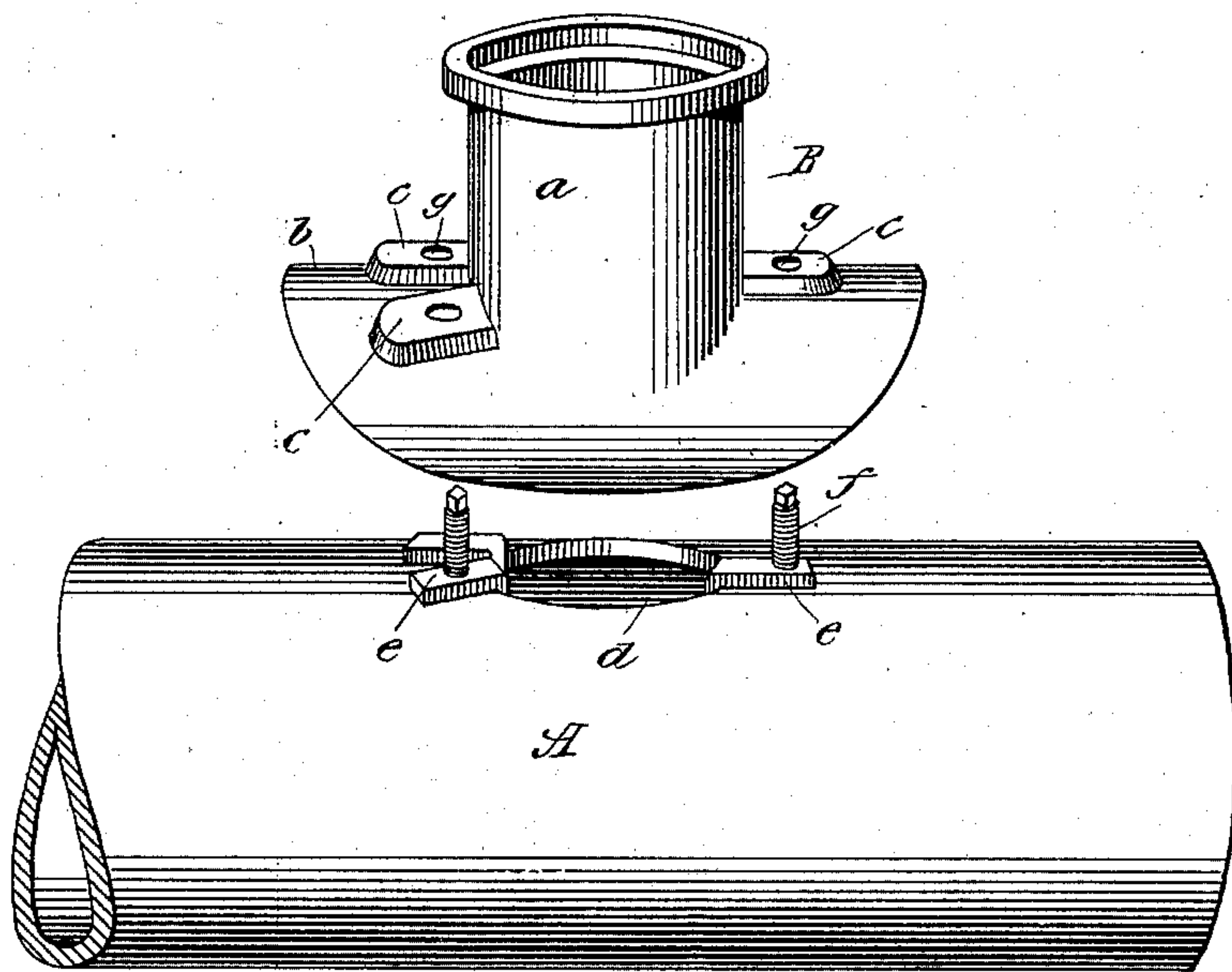
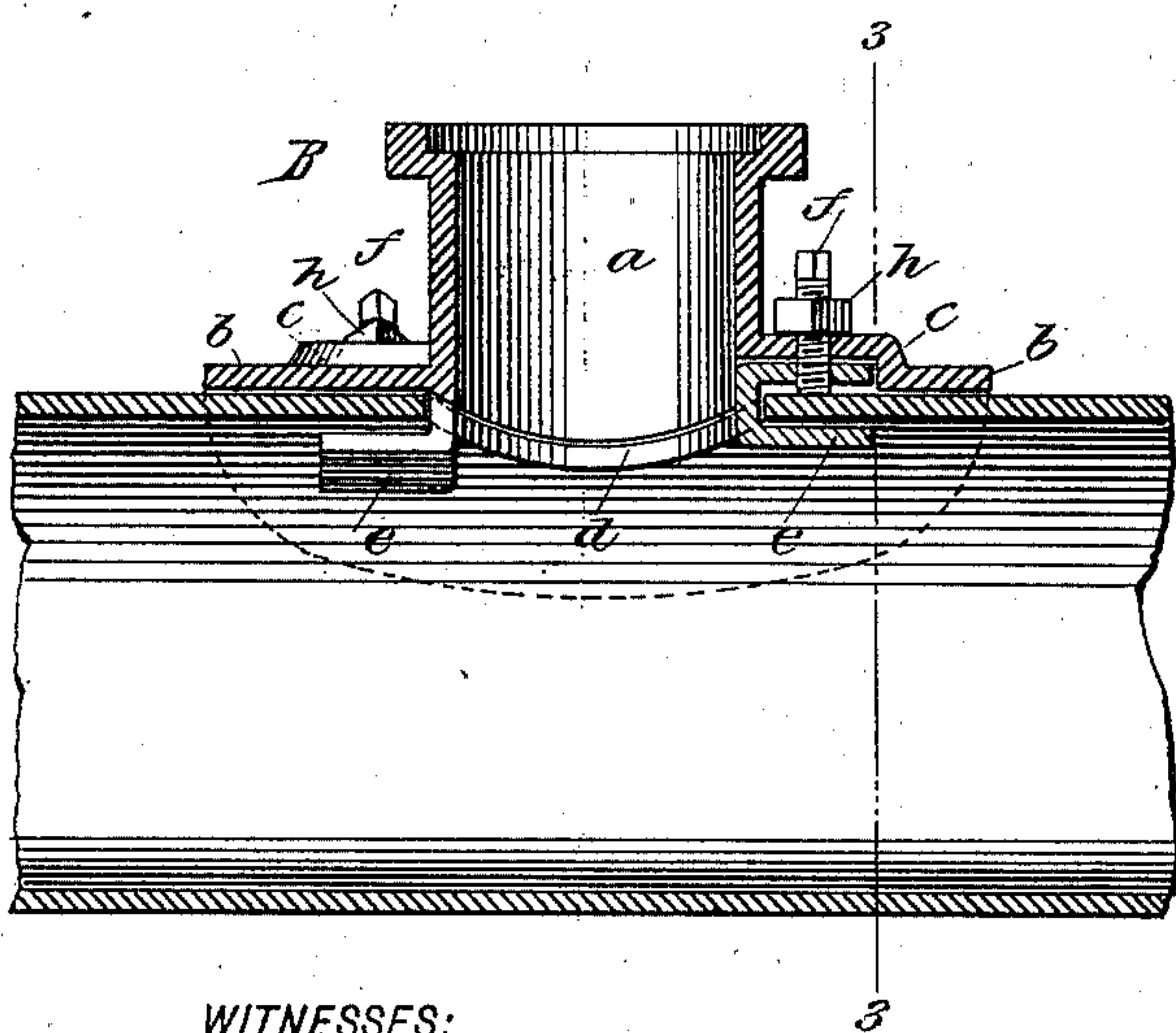


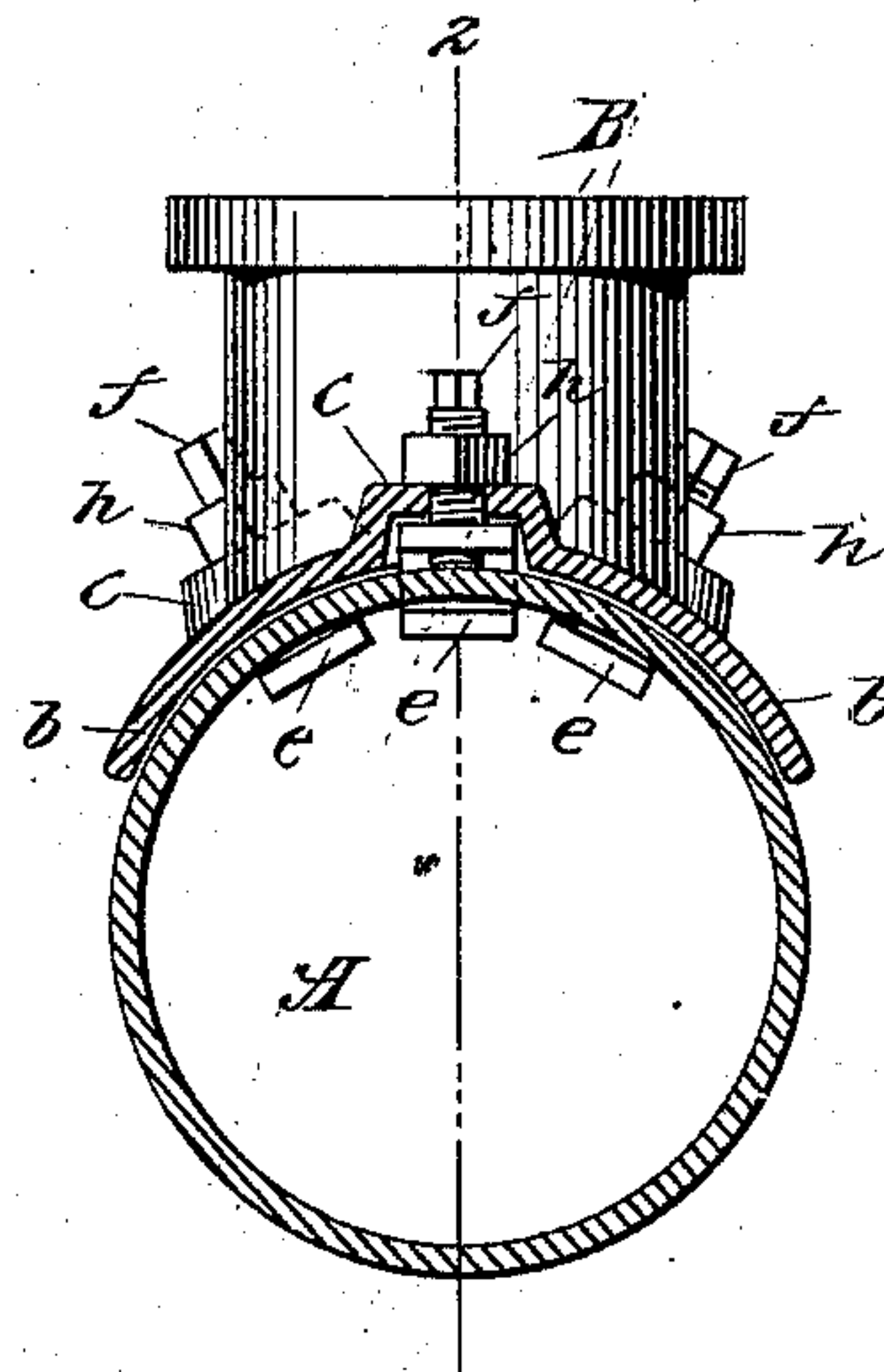
Fig. 2.



WITNESSES:

William Goebel.
J. P. Flagg Jr.

Fig. 3.



INVENTOR

Nathan Rubenstein

BY

George Laock

ATTORNEY.

UNITED STATES PATENT OFFICE.

NATHAN RUBENSTEIN, OF NEW YORK, N. Y.

PIPE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 540,336, dated June 4, 1895.

Application filed January 16, 1895. Serial No. 535,076. (No model.)

To all whom it may concern:

Be it known that I, NATHAN RUBENSTEIN, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Pipe-Saddles, of which the following is a specification.

My invention relates to an improvement in pipe saddles, the object of the same being to provide a device of this character which shall be simple and economical to manufacture, easily and readily attached and by means of which all drilling of the pipe to which the saddle is attached, for the passage of bolts or fastenings may be avoided.

With these and other ends in view, my invention consists in certain novel features of construction, and combinations of parts, as will be hereinafter fully described and pointed out in the accompanying claims.

Referring to the drawings, Figure 1 is a view in elevation of my improved saddle before being attached to the pipe. Fig. 2 is a longitudinal section of the same after its attachment. Fig. 3 is a cross-section taken on the line 3 3 of Fig. 1.

A represents a pipe of any diameter and to which it is desired to attach the saddle.

B represents the saddle which in the present instance, is of T-form, but it will be understood by those skilled in the art that my invention is also applicable to the W-saddle.

The saddle B consists of the branch-pipe *a*, having formed on its lower end the flange or cover *b* curved in cross section to conform to the curve of the pipe to which the saddle is to be attached. The flange *b* is provided with three or more recesses *c* formed by striking up the metal of which the flange is made, said recesses leading from the base of the pipe *a* outwardly toward the periphery or edge of the flange *b*.

In the pipe A is cut or formed the usual hole or opening *d*, to the edges of which are secured clamps *e*, so disposed around the opening *d* as to correspond or register with the recesses *c* formed in the flange of the saddle. These clamps are of a shape shown in Fig. 2, that is, with two horizontal arms and a vertical arm joining one end of the latter, the length of said vertical arm and consequent separation of the two horizontal arms being dependent upon the thickness of metal of which the pipe A is made or consists, said clamps being fitted to the metal of the pipe A

as shown in the several figures. Through the upper arms of each of the clamps *e* are formed threaded openings into which are screwed the posts *f*, the lower ends of the latter impinging tightly against the outer surface of the metal of the pipe A, thereby binding or securely fastening the clamps *e* in their proper positions. Over these clamps is placed the saddle B, the upper arms of said clamps fitting within the recesses *c*, and the posts *f* passing through openings *g* formed in the upper sides of said recesses. When the several parts are in this position or adjustment, nuts *h* are screwed down on the threaded posts *f* bringing the flange of the saddle down tightly upon and over the pipe A, the edge of said flange *b* where it joins to pipe A being subsequently puttied or soldered to said pipe, if so desired. By these means all drilling of the pipe A around the opening *d* therein, for the passage or reception of bolts, and which has in many instances been found to cause the splitting of the said pipe at such points, is avoided.

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

1. The combination with a main pipe having an opening therein, of a pipe saddle consisting of a branch pipe having formed thereon a flange or saddle, the latter being struck up at several points, for forming recesses, clamps fitting around the opening in the main pipe, threaded posts passing through said recesses in the flange or saddle, and through the clamp, and nuts threaded on said posts, and above the recesses in said saddle for holding the parts in their proper positions, substantially as described.

2. The combination with the pipe A having an opening formed therein and saddle B provided with the raised portions *c*, of clamps *e* fitting around the opening in the pipe A, threaded posts *f* passing through the clamp and saddle, and bearing on the pipe A, and nuts *h* threaded on said posts and above said raised portions *c*, the above parts being combined and arranged in a manner and for the purpose, substantially as described.

Signed at New York, in the county of New York and State of New York, this 12th day of January, A. D. 1895.

NATHAN RUBENSTEIN.

Witnesses:

F. S. KENNEDY,
J. F. FLAGG, Jr.