

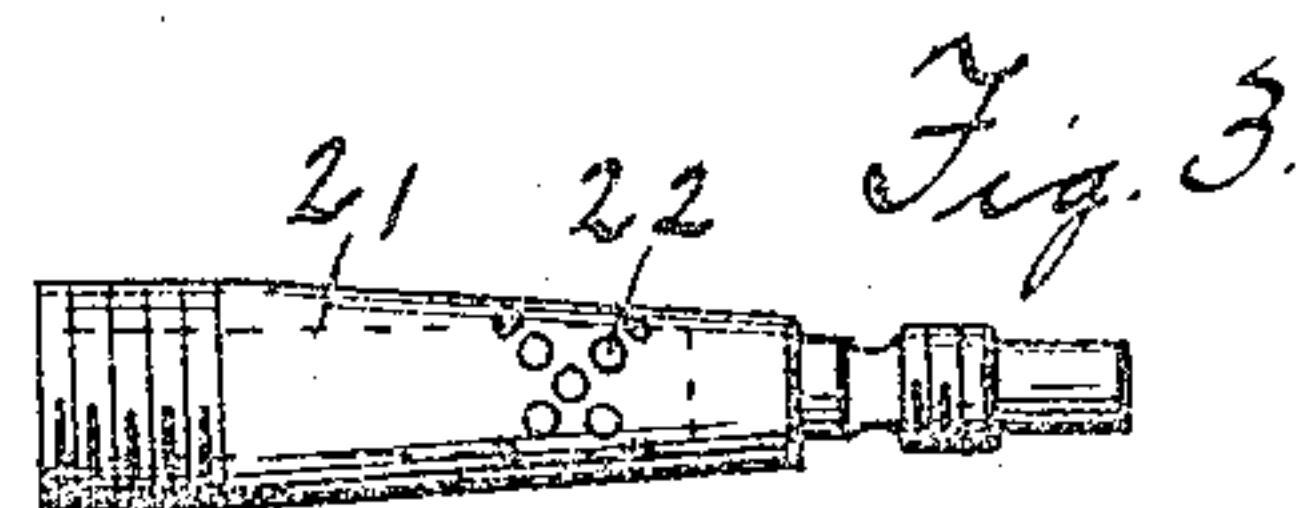
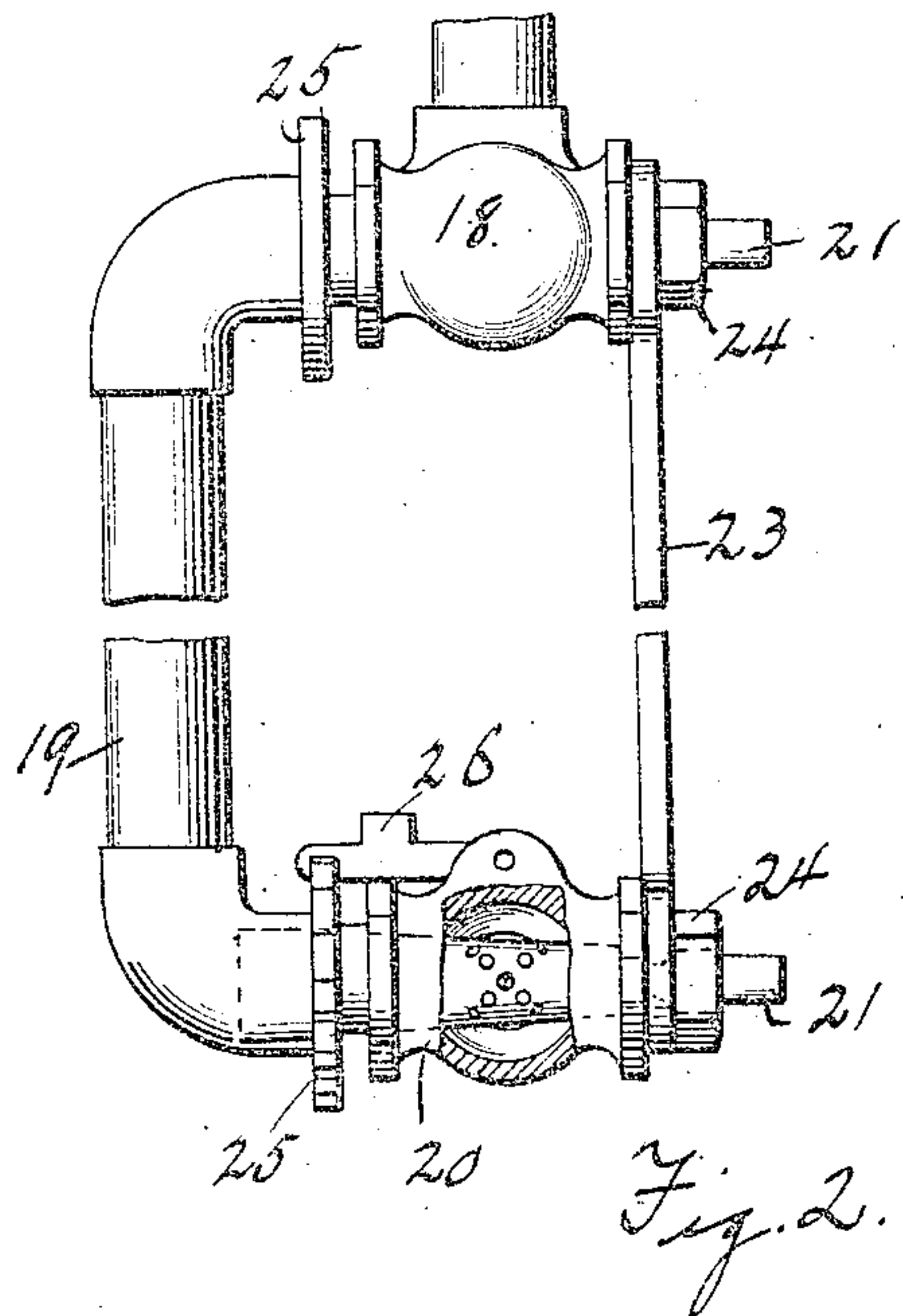
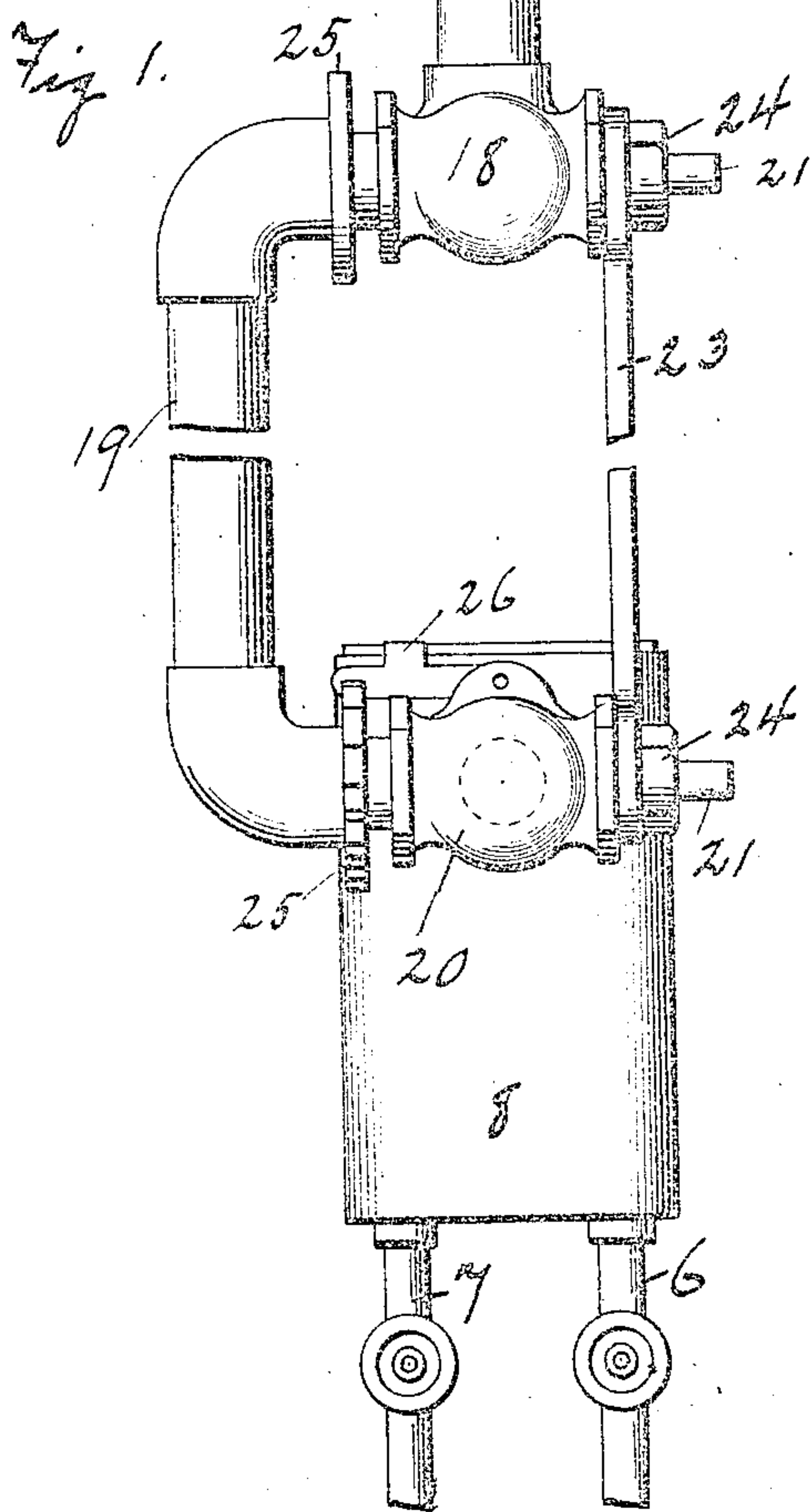
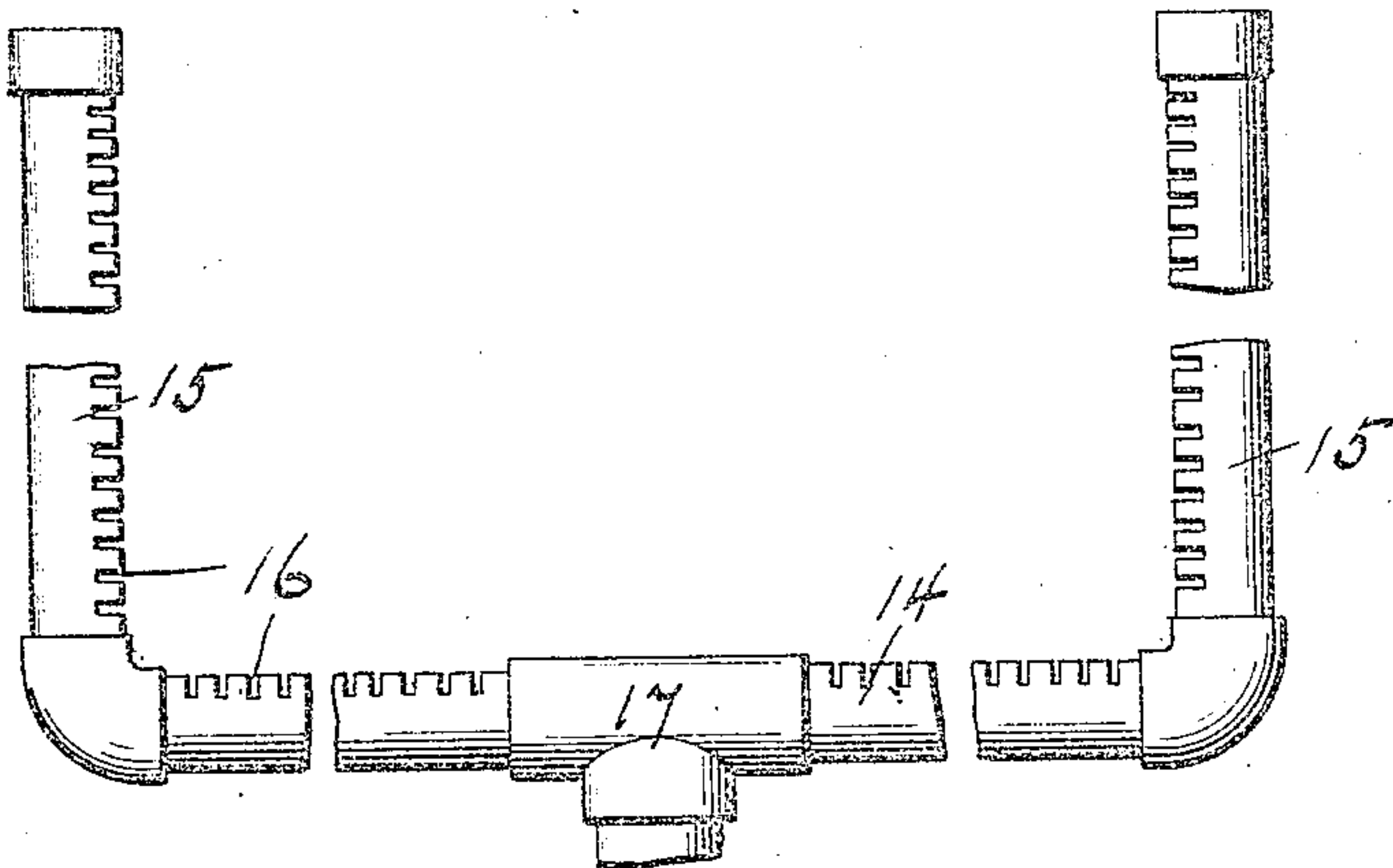
No. 816,604.

PATENTED APR. 3, 1906.

C. C. RUSSELL.
SHOWER BATH.

APPLICATION FILED FEB. 12, 1904.

2 SHEETS—SHEET 1.



WITNESSES:

W. F. Logg
Geo. E. Tew

INVENTOR

Charles C. Russell

By *Wm B. Stenmark*
Attorney

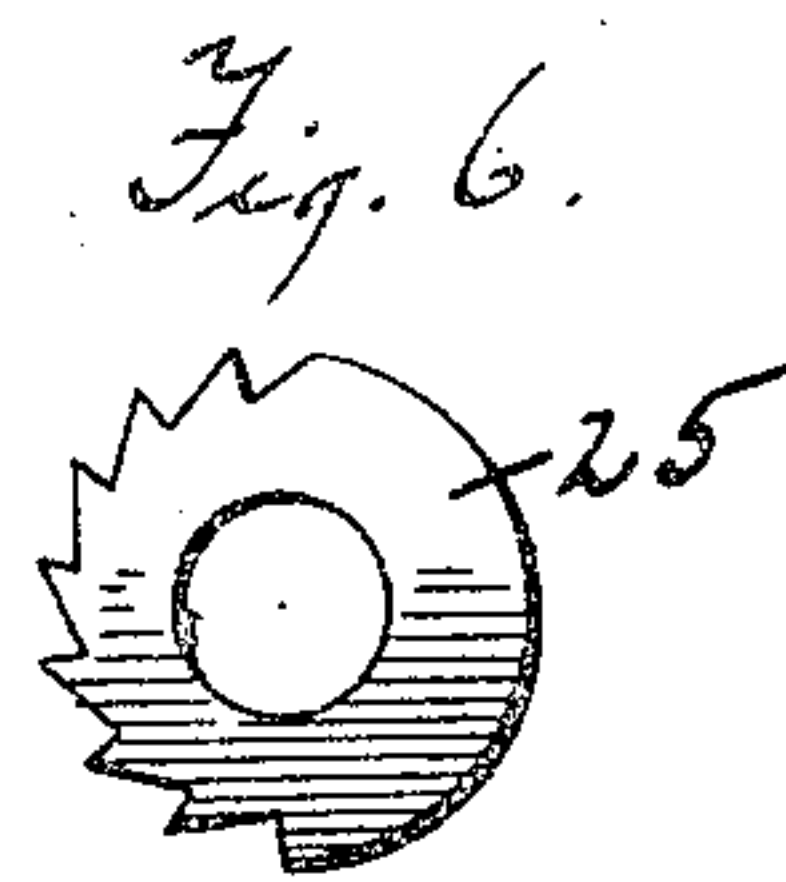
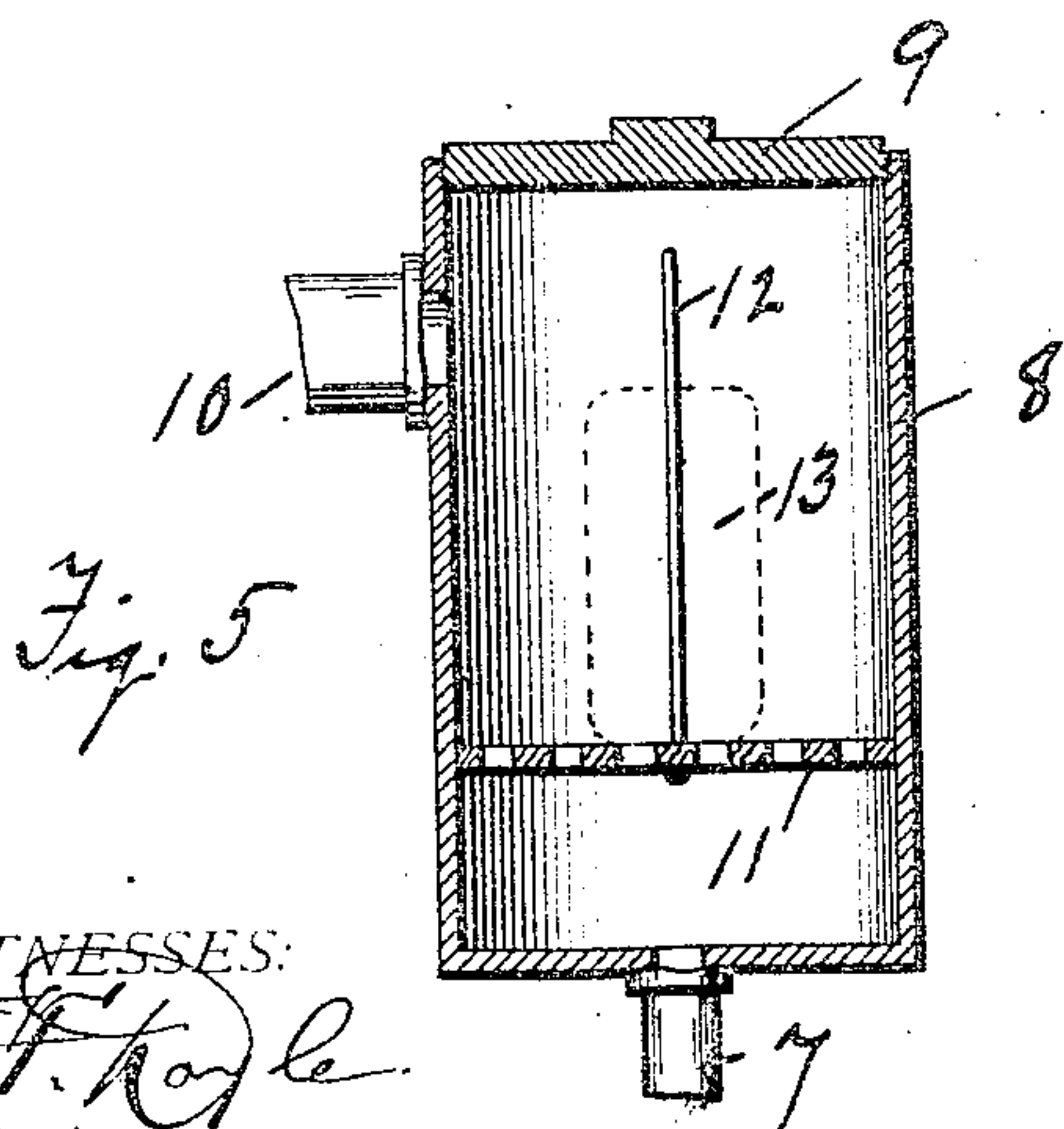
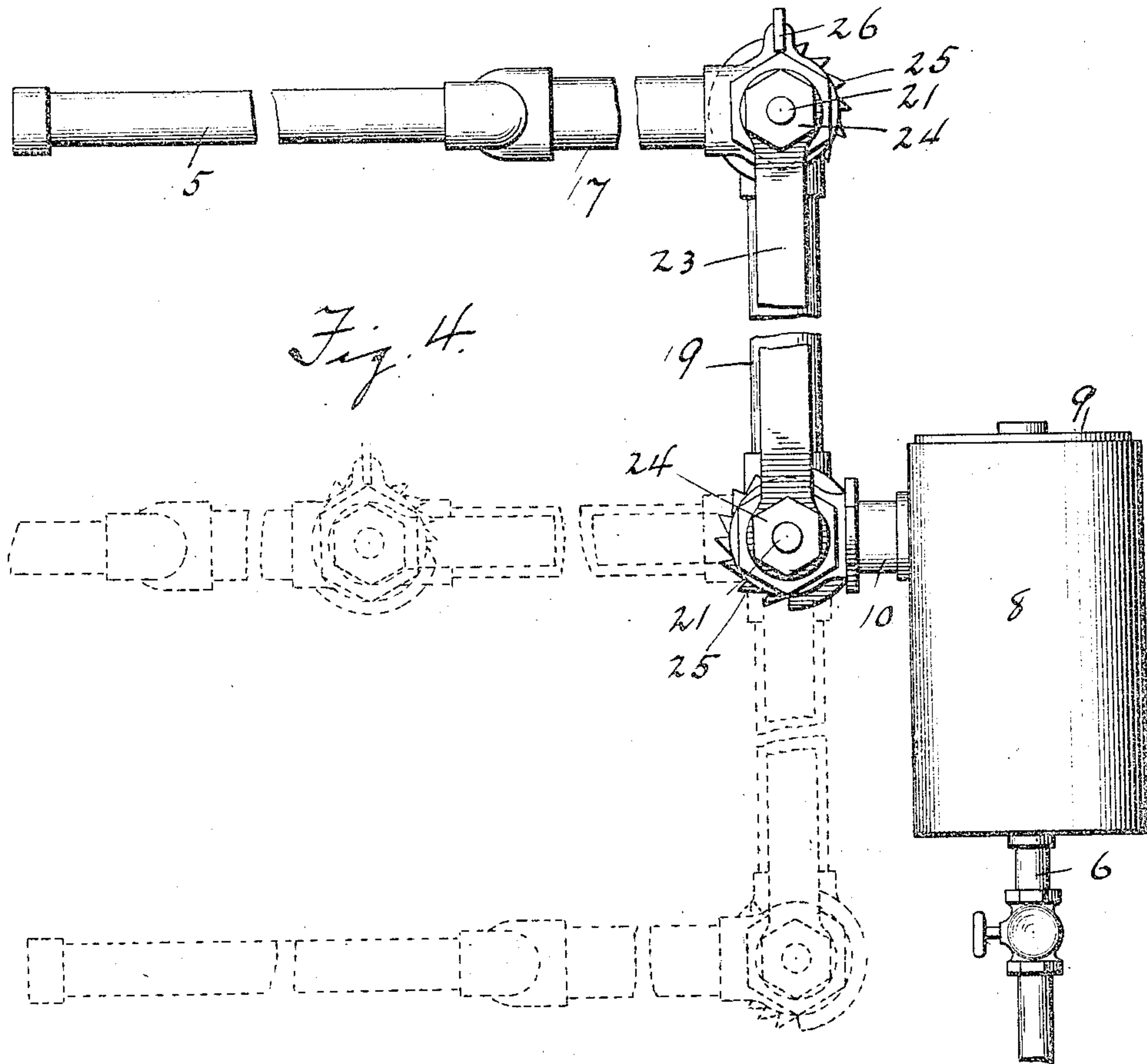
No. 816,604.

PATENTED APR. 3, 1906.

C. C. RUSSELL.
SHOWER BATH.

APPLICATION FILED FEB. 12, 1904.

2 SHEETS—SHEET 2.



WITNESSES:

W. F. Hoyle
Geo. E. Tew

INVENTOR

Charles C. Russell.
By *Chas. B. Stevens*
Attorney

UNITED STATES PATENT OFFICE.

CHARLES C. RUSSELL, OF CLEVELAND, OHIO

SHOWER-BATH.

No. 816,604.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed February 12, 1904. Serial No. 193,337.

To all whom it may concern:

Be it known that I, CHARLES C. RUSSELL, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga, State of Ohio, have invented certain new and useful Improvements in Shower-Baths, of which the following is a specification.

This invention comprises a shower-bath having a spray-pipe which can be adjusted or set at any desired height, so as to be serviceable for persons of any height.

It also comprises a mixer permitting an improved regulation of the temperature of the water and also permitting salt to be applied to the water delivered.

The device is illustrated in the accompanying drawings, wherein—

Figure 1 is a front elevation of the same with the spray-pipe raised to vertical position out of the way. Fig. 2 is a detail, partly in section, of the connection and turning-joint which permit the spray-pipe to be raised or lowered. Fig. 3 is a detail of one of the plugs in a joint. Fig. 4 is a side elevation of the apparatus, showing in dotted lines various positions of the spray-pipe. Fig. 5 is a detail in section of the mixer. Fig. 6 is a detail of part of a latch used to hold the parts as set.

Referring specifically to the drawings, 6 and 7 indicate the supply-pipes for hot and cold water. These open into the bottom of a cylindrical mixing vessel 8, which is provided at the top with a screw-cover 9, and in the side wall thereof, near the top, is an outlet-pipe 10, through which the mixed hot and cold water is supplied to the spray-pipe. Within the mixer between the inlet and outlet pipes is a perforated partition 11, from which projects upwardly a vertical pin 12, on which a bag of salt, as indicated at 13, may be stuck to give a salt-shower. The partition obstructs the passage of the water and causes an efficient mixture of the hot and cold water. The removable cover 9 allows the salt-bag to be placed or removed, as desired.

The spray-pipe consists of a cross-pipe 14, at the ends of which are forwardly-projecting parallel branches 15, which are spaced apart a proper distance to allow a person to enter therebetween. This pipe and its branches have inwardly-directed jet-holes 16, adapted to discharge a spray on such person, and it is to be noticed that by the means hereinafter described the spray-pipe is or

may be held in horizontal position at all elevations, or it may be swung up or down vertically out of the way when not in use. The spray is connected by a T-fitting 17 with a joint-casing 18 at one end of a connecting-pipe 19, the other end of which has similar joint-casing 20. Each end of said connecting-pipe is provided with a tubular plug 21, having a number of perforations 22, which open into the joint-casing and provide a continuous flow in all positions of the joint. The plugs and casings form turning joints, and their axes are parallel, so that the connecting-pipe 19 and the spray-pipe carried thereby may be swung up or down to any desired height, limited only by the length of the connecting-pipe. The plugs 21 are extended through the casing, and their outer ends are connected by a brace-bar 23, held in place by nuts 24, which also hold the plugs in the casing.

To hold the parts as set, latches are provided at the joints, which comprise a ratchet-washer 25, which is fitted over the plug and detents 26, arranged to drop in the notches of the ratchet and hold the parts in any angular position desired.

To adjust the shower to the desired height, the latches 26 are first thrown out, and then by taking hold of the pipe 19 it can be swung up or down to the desired position, and the latches are then engaged again to hold the parts as set.

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

1. A mixer for shower-bath apparatus, comprising an outer casing having a removable cover at the top and hot and cold water inlets at the bottom, an outlet in the side of the casing near the top thereof, a perforated partition extending across within the casing, between the inlets and outlet, and a pin projecting upwardly from the partition, in the casing.

2. In a shower-bath apparatus, the combination with a supply-pipe, of a rigid spray-pipe extending crosswise and having at its ends forwardly-projecting branches spaced so that a person may enter therebetween, said pipe and branches having inwardly-directed jet-holes, and a flexible coupling connecting the supply and spray pipes and constructed and arranged to permit the spray-pipe and branches to be set at various heights.

3. In a shower-bath apparatus, the combi-

nation with a supply-pipe and a spray-pipe, of a coupling connecting the same and permitting the spray-pipe to be set at various heights, comprising a connecting-pipe having at one end a turning joint with the supply-pipe and at the other end a turning joint with the spray-pipe, the axes of said joints being parallel, and a latch at each joint, engageable between the parts thereof, to hold the pipes as set.

4. In a shower-bath apparatus, the combination with a supply-pipe and a spray-pipe, each having at its end a joint-casing, of a coupling connecting said pipes and constructed to permit the spray-pipe to be set at vari-

ous heights, comprising a connecting-pipe terminating at its ends in perforated plugs which extend through said casings and turn therein, the axes of the plugs being parallel, a brace-bar secured to the ends of the plugs, beyond the casings, and means to hold the parts as set.

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

CHARLES C. RUSSELL.

Witnesses:

ROBERT W. TURNER,
HARRY E. DAVIS.