(No Model.)

# A. P. CREQUE.

## PEDESTAL FOR RANGE BOILERS.

No. 376,767. Patented Jan. 24, 1888.

Fig: 1.

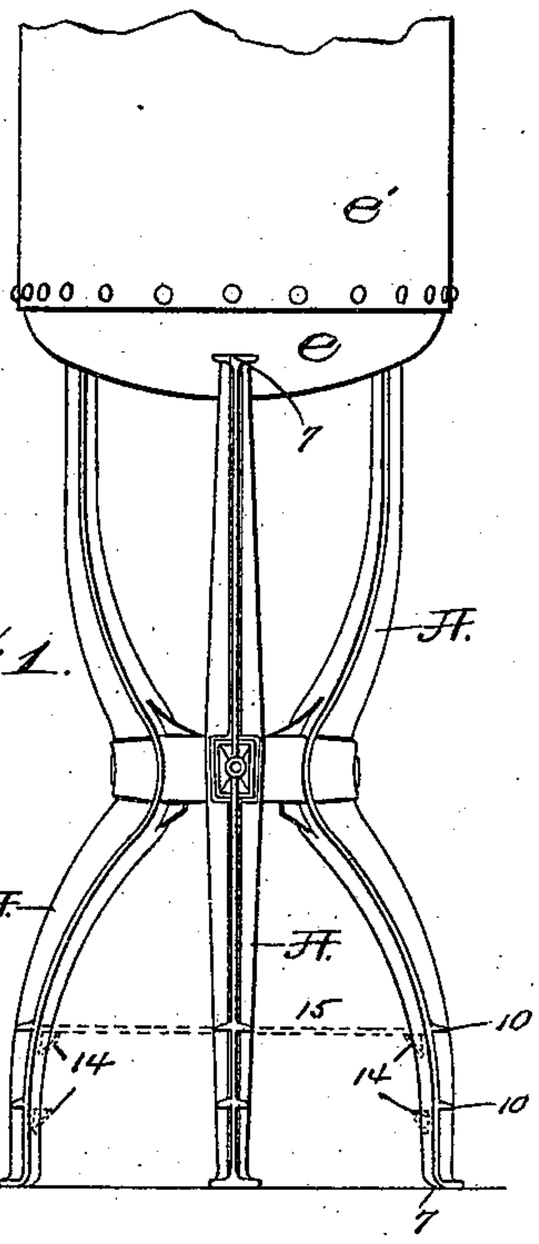



Fig: 2.

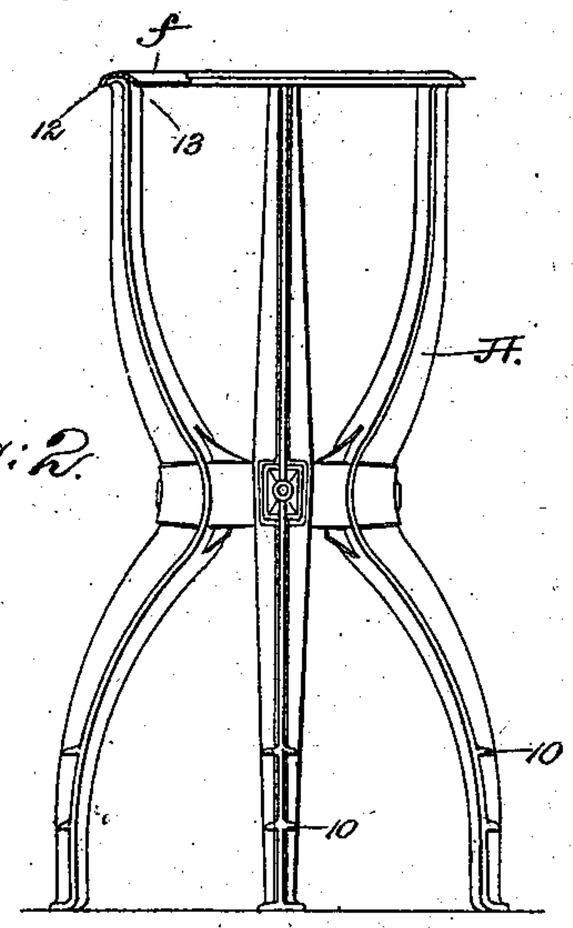



Fig: 3.

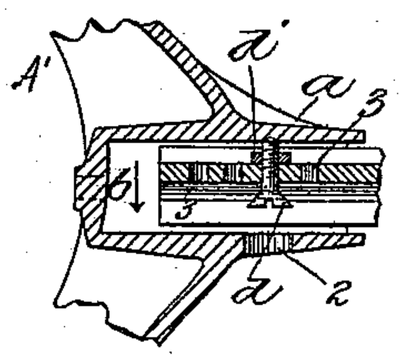



Fig: 4.


Fig: 5.

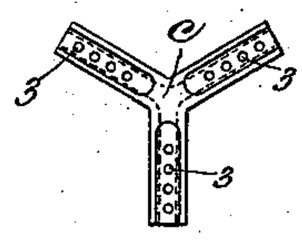



Fig: 6.

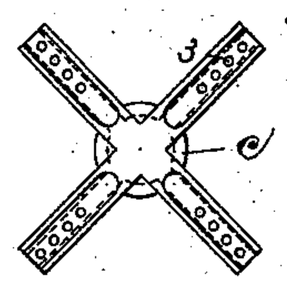



Fig: 7.

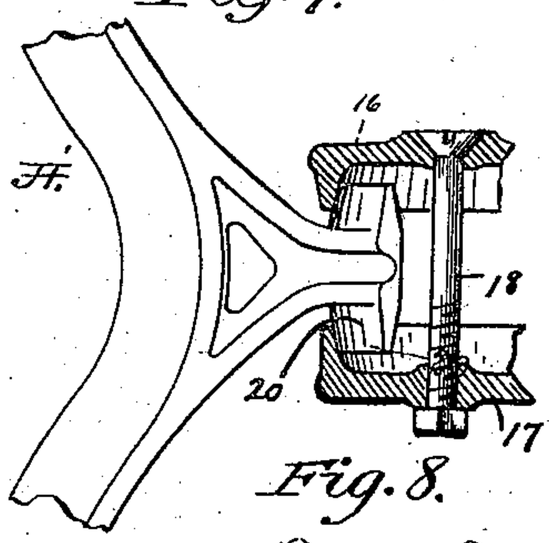



Fig. 8.

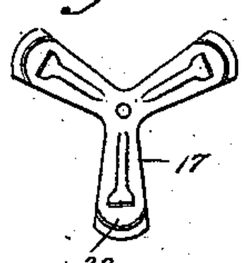
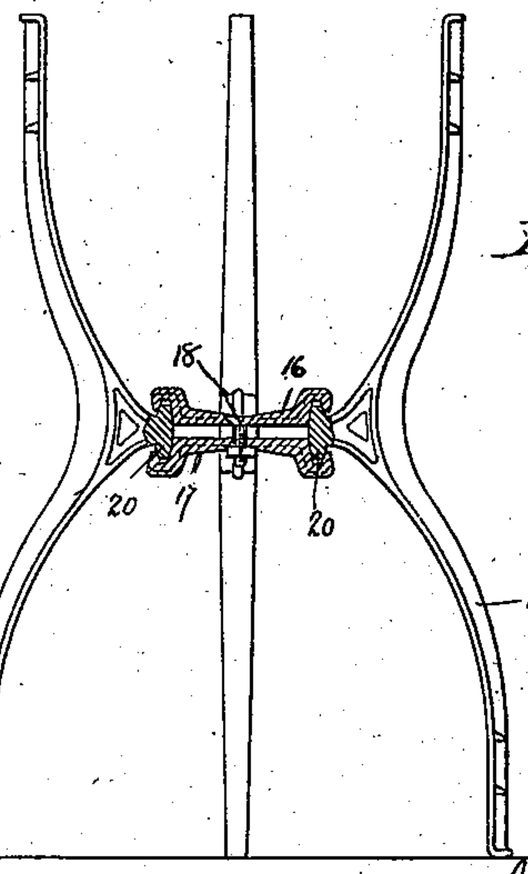



Fig: 9.




Witnesses.
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Attys

# UNITED STATES PATENT OFFICE.

ALLEN P. CREQUE, OF NEW YORK, N. Y.

## PEDESTAL FOR RANGE-BOILERS.

SPECIFICATION forming part of Letters Patent No. 376,767, dated January 24, 1888.

Application filed April 26, 1887. Serial No. 236,156. (No model.)

*To all whom it may concern:*

Be it known that I, ALLEN P. CREQUE, of New York, county and State of New York, have invented an Improvement in Pedestals for Range-Boilers, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of a strong and reliable support or stand for range-boilers and other articles.

My improved stand is composed, essentially, of three, or it may be more, legs or uprights joined together between their upper and lower ends by a spider or connection, the said spider or connection being preferably of such construction as to permit the legs to be not only readily detached, but also adjusted with relation to each other, to thus adapt a single set of legs to boilers of different diameters.

The legs of my improved stand are so shaped as to occupy but little room upon the floor, leaving the floor-space clear, and also to receive the bottom of the boiler directly upon their rounded or flattened ends, the legs at the top of the stand supporting the outwardly-bulged bottom of the boiler between its center and its junction with the body of the boiler, reducing the liability of the bottom to be sprung outward by pressure from within. By making the stand as a tripod and permitting only the narrow ends of the legs to rest upon the floor, the liability of dirt or of any unsanitary matter to collect between the bottom of the stand and the floor is reduced to the minimum.

In one form of my invention as herein embodied, the legs at or near the center of their length are curved or bent inwardly and provided with sockets to receive the wedge-shaped arms of a spider, the latter being confined to the legs by suitable screws or bolts. Preferably the legs will be so shaped that one end of the stand will present the ends of the legs at a greater distance apart than the legs at the opposite end of the stand, thus accommodating for boilers of increased diameter by simply reversing the stand.

My invention consists in a stand or support composed, essentially, of three or more legs and a spider or independent connection to rigidly join the said legs between their upper and lower ends, as will be described; also, in a stand or support three or more metal legs, combined with an independent spider or connection to rigidly join the said legs at a distance from their upper and lower ends, the said legs being adjustable toward and from each other, substantially as will be described.

Figure 1, in elevation, shows one of my improved stands with part of a boiler resting upon it; Fig. 2, a view of the stand with a ring resting thereon, the ring being broken out. Fig. 3 shows part of one of the legs, its socket portion being broken out, one arm of the spider being shown therein; Fig. 4, a sectional detail, to be referred to; Fig. 5, a top view of the spider; Fig. 6, a spider with four arms; Figs. 7 and 8, modifications of my invention, and Fig. 9 a modified form of stand.

The legs A, preferably three in number and composed of cast metal, are inwardly curved between their upper and lower ends, substantially as shown, at which point, preferably substantially midway their length, the said legs have socketed portions *a*, made preferably wedge-shaped in cross-section, the said socketed portions having each a hole, 2, for the insertion of a screw-driver by which to turn a bolt or screw, *d*, to be described.

The spider *c*, employed to connect the legs A together at a point nearly midway their ends, has, as shown in Figs. 1, 2, and 5, three arms, one for each leg, the arms of the spider being so made, preferably, as to enter the said sockets, a bolt, *d*, and nut *d'*, carried by each arm of the said spider, co-operating with the said socketed portion and forming a locking device to hold the legs firmly together practically as one piece.

The screw or bolt *d*, inserted loosely through one of a series of holes, 3, in the spider and screwed into the nut *d'*, held loosely between the ribs 4 4 of the spider-arms, will cause the point of the screw or bolt (see Fig. 3) to press against one wall of the socket portion, thus forcing the wedge-shaped sides of the arms of the spider into the socket portions of the legs in the direction of the arrow *b*, Fig. 3, thus firmly locking the spider and legs together. Making the spider wedge-shaped and locking it by screw-pressure makes the strongest possible form of joint. The series of holes, as 3, in the spider enable the legs to be connected

thereto at a greater or less distance from the center of the spider, thus placing the legs more or less distant from each other, according to the size of the boiler to be used.

The socketed portions may be placed intermediate the ends of the legs, or at any desired position between their upper and lower ends.

I do not desire to limit my invention to the exact form or shape shown for the spider or of the connection employed to join the three or more independent legs between their upper and lower ends, nor to the exact curvature of the legs, nor to the shape of that part of the leg co-operating with the spider or connection used to join them together; nor do I desire to limit my invention to the employment of but three legs for the stand or support, for by increasing the number of arms of the spider, as in Fig. 6, I may employ four or, in fact, any desired number of legs.

In practice the legs will preferably be so shaped or curved, as shown, that the legs at the bottom of the stand will be spread farther apart than at the top thereof; but at the bottom and top each present the same number of legs, so I can easily, if necessity requires, reverse the stand, and thus present a tripod of a different size as a seat for the boiler.

The terminals of the legs are made broad or rounded, as at 7, to rest upon and not enter the floor, and the legs being disconnected at their ends enables the base of the stand to rest firmly, even though the floor should be warped or uneven. The terminals 7 at the top of the stand will preferably receive upon them the bottom *e* of the boiler *e'*, the bottom of the boiler, for the best results, resting upon the top of the stand at a point distant from the junction of the bottom with the shell of the boiler equal to one-third the radius of the bottom of the boiler. The weight of the water and pressure co-operating together strain the bottom of the boiler more than the head; but by supporting the bottom of the boiler directly upon the boiler-stand the strain of the weight of the water is removed from the bottom, at least so far as it might be exerted to strain the joint between the body of the boiler and its bottom.

The end of each leg will preferably be provided with a series of lugs, as 10, to form ends for the legs in case it becomes necessary to shorten the stand to adapt it to any given range or heater. The legs may be readily cut off by a file, saw, or chisel on the dotted lines, Fig. 1.

If desired, a ring, as *f*, (see Fig. 2,) may be interposed between the bottom of the boiler and the top of the stand, the said ring having, preferably, two flanges, as 12 13, between which the legs enter.

With a stand of the kind described there is no opportunity for any dirt or unsanitary accumulation between the feet of the stand and the floor.

One most important feature of my improved stand is the small compass in which one or a number of stands may be placed for shipment, for it will be obvious that the legs of the stand may be closely packed together and be readily assembled by the plumber or other person using them. The less the space or bulk of the package the less its freight, other things being equal.

In Fig. 1 I have shown the legs as provided with shelf-holding lugs 14, upon which may be placed, if desired, a shelf, as 15, to hold sad-irons or other things.

In Figs. 7, 8, and 9, showing a modified form of my invention, the legs A, supposed to be of a four-legged stand, instead of having sockets extended through them at right angles to their length, as shown in Fig. 3, are provided with projections, as 20, and the spider is divided into two plates, as 16 17, clamped together by a bolt, as 18, the plates having recesses to embrace and hold firmly the projections, this construction being substantially the converse of that shown in Fig. 1. In Fig. 8 the spider is shown as having independent arms with concaved recesses 22 to fit the convexed projections 20.

I claim—

1. The combination of a suitable number of legs, A, approaching each other near their longitudinal centers and provided at such points with spider-receiving devices and of different divergence on opposite sides of such center, with such spider, and screws or bolts for uniting the legs and spider when assembled, substantially as described.

2. The independent legs A and their spider-receiving portions, such as sockets or projections, combined with the spider and an appropriate number of assembling-bolts to unite the spider and legs, substantially as described.

3. A pedestal for range-boilers, composed of an appropriate number of legs, each having a number of lugs, 10, to form ends for the legs, whereby the height of the stand may be decreased as many times as there are such lugs, and a footed terminal for the legs still be retained.

4. The reversible pedestal for range-boilers, composed of the several legs A, expanded more at one end than at the other, and provided with spider-receiving members, such as sockets or projections, and a spider engaging each of such members and rigidly secured thereto by a suitable number of assembling-bolts, substantially as described.

5. The legs having socketed portions, combined with a spider having wedge-shaped arms to enter the said sockets, substantially as described.

6. The legs having wedge-shaped socket portions and the spider having wedge-shaped arms, combined with a screw or bolt to form a locking device and wedge the spider into the socket portion of the leg, substantially as described.

7. In a boiler-stand, the combination, with a spider having three or more radial arms, of independent legs secured to said arms, substantially as and for the purpose specified.

8. In a boiler-stand, the combination, with a spider having radial arms, of independent legs adjustable on the said arms, substantially as described.

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

ALLEN P. CREQUE.

Witnesses:
G. W. GREGORY,
J. H. CHURCHILL.