

*J. Cortlan,
Shower Bath,*

N^o 6,047.

Patented Jan. 23, 1849.

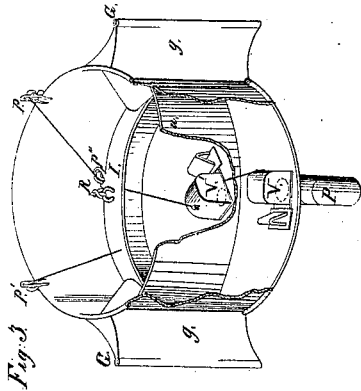


Fig. 1.

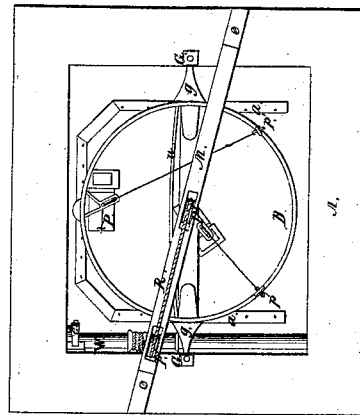


Fig. 2.

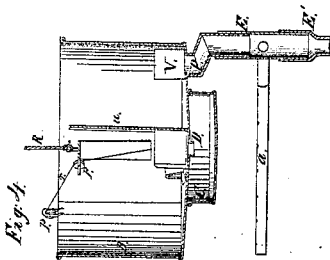


Fig. 3.

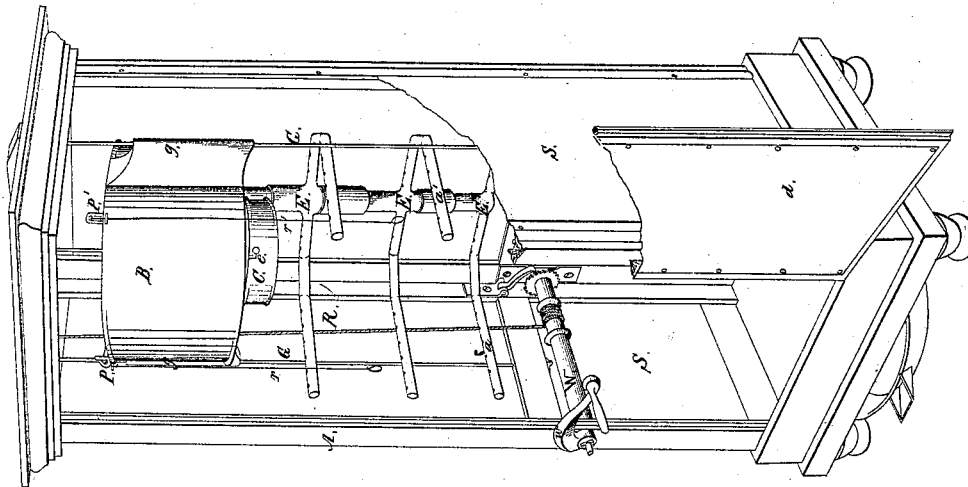


Fig. 4.

UNITED STATES PATENT OFFICE.

JAMES CORTLAN, OF BALTIMORE, MARYLAND.

SHOWER-BATH.

Specification of Letters Patent No. 6,047, dated January 23, 1849.

To all whom it may concern:

Be it known that I, JAMES CORTLAN, of the city and county of Baltimore and State of Maryland, have invented a new and useful Combination Shower, Douche, and Jet Bath, and that the following is a full, clear, and exact description, reference being had to the accompanying drawings, whereof—

Figure 1 is a general perspective view having a part of one side and the door partly broken out to exhibit the interior, Fig. 2 is a top view of the bath, Fig. 3 a perspective view of the interior of the water cistern, and Fig. 4 a vertical section of the same exhibiting the douche tube shower pan and one of the jet arms.

The purposes which I have had in view in the invention of this bath are 1, by means of suitable elevating apparatus to enable the bather to raise at once as large a quantity of water as he may desire to use and thereby to prolong his bathing at pleasure without stopping to replenish the cistern. 2, by making the whole system of tubes and jets rise and fall with the water receptacle, to adapt the bath to bathe persons of different heights or to bathe different parts of the same person without extending to the whole body. 3, by means of separate valves constantly under the control of the bather the shower jets or douche may be taken either with full and strong currents or gently and intermittingly at his option. 4, by lowering the whole interior apparatus and letting water flow gently through the lower jet pipes only the lower extremities may be bathed. This advantage adapts it to persons who dislike the wetting of the hair.

In the drawing Fig. 1, B is the cistern, C is the movable pan attached to the cistern above it, by bayonet joints *e*, or other equivalent means. P is a pipe descending from the bottom near the back of the cistern and conveying the current to the succession of curved horizontal jet pipes *a*, *a'*, *a''*. These jet pipes have holes opened near their upper sides but about one eighth of the periphery therefrom inclined inward so as to throw their jets toward a central space. Each set of curved arms is attached to a vertical section of tubes E, E', E'', sliding with friction upon the part above it by which the vertical distance apart of the several arms may be adjusted and the force with which the water will be thrown from the lower arms without throwing any from

the upper, may be increased or lessened at pleasure. W is a windlass winding up by the winch *w* the cord R, which elevates the water cistern and the parts connected therewith. The click *c* acting on a ratchet wheel retains the cistern at any desired height. *d* is the door, partly cut away to exhibit the interior. *r* and *r'* are cords passing over pulleys *p* and *p'* to regulate the opening of the respective valves. The whole apparatus is sustained by the frame A and surrounded by oiled muslin or other suitable sides S S.

Fig. 2, shows the arrangement of the parts interior to the cistern B together with the pulleys P', P', over which passes the suspending rope R; and the pulleys *p* *p'* over which pass the valve cords *r*, *r'*. It also exhibits the jet arms *a*, *a*, the windlass W and the click *c*. M is a cross bar resting on the top of the frame A and supporting the pulleys P', P', which sustain the cistern and its appendages. G, G, show the positions of the guide rods passing through the guide wings *g*, *g*, which parts are also referred to by the same letters in Fig. 1.

In Fig. 3, are exhibited the valve V which closes the passage near the rear of the cistern which leads to the pipe P, and the jet arms therewith connected, as above described. It also shows the valve V' which closes the passage to the douche and to the shower pan above represented. Both these valves are weighted to insure complete closure even when little water is in the cistern. I is a strong bail or support to which the rope R is attached.

In Fig. 4, are seen the central valve V' which opens and closes the douche tube D, the pulleys *p*, *p*, over which passes the cord *r*, the shower pan C and a portion of the jet arm *a* with the tube E and connecting pipe P.

To use this bath the cistern is lowered by the winch *w* to a sufficient distance to allow of being conveniently filled. It is then raised so as to give the water the desired extent of fall and the bather wishing to receive the head shower bath, attaches the pan C, takes his position, (either standing or sitting) within the bath and by the cord *r* raises the valve V'. If the jets are required, at the same time both the cords *r* and *r'* are drawn. When the douche is desired either by itself or in connection with the side jets the pan C Fig. 4 is omitted and the pipe D allowed to play a stream more or

less heavy according to the height to which the bather raises the valve V' and if the jets and douche be simultaneously required, both cords are drawn at once as before.

5 Either cold or warm water may be used in this bath and by means of the partition u hot and cold water may be used at the same time and during the same operation.

I contemplate in some cases making the
10 cistern double, that is, having a cylinder surrounding the valve V' forming within B a receptacle of smaller dimensions into which water of one temperature may be poured, leaving the exterior annular space
15 for water of a different temperature adapting it to both hot and cold bathing during one operation.

Having thus fully described my invention I may add that I do not claim as my invention
20 the combination of lateral jets with a rising and falling cistern, but

1. What I do claim is the combination of the showering pan C, a divided cistern, and horizontal arms as herein described whereby
25 the head may be showered with water of one temperature and the lower parts of the body with water of another temperature during the same operation.

2. I also claim in combination the douche bath, the divided cistern, and tubes with
30 horizontal jet arms as herein set forth to give a douche to the head and a shower to other parts of the body of a different temperature.

3. I also claim making the showering pan
35 C capable of being separated from the cistern and of thereby making way when required for the use of the central douche tube D as herein set forth.

4. I also claim the adjustable sliding section tubes E, E' &c. having horizontal movable arms a, a', &c. with jets as herein described capable of being brought nearer to or more remote from each other for the purpose of concentrating more or less the
40 shower thrown on the lower parts of the body, not intending in these claims to limit myself to the exact arrangements of parts herein described, but to vary the same at pleasure while I attain the same ends by
50 means substantially the same.

JAMES CORTLAN.

Witnesses:

W. R. JOHNSON,
A. STEINWEHR.