UNITED STATES PATENT OFFICE.

LIBERTY WALKUP, OF ROCKFORD, ILLINOIS.

AIR-PUMP.


To all whom it may concern:

Be it known that I, LIBERTY WALKUP, a citizen of the United States of America, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Air-Pumps, of which the following is a specification.

This invention relates to air-pumps; and its object is the production of air-pumps of comparatively inexpensive and simple construction adapted to be operated by foot-power and to be used with air-brushes and other similar devices; and it consists of certain new and useful features of construction and combinations of parts devised to that end, all as hereinafter fully described, and specifically pointed out in the claim.

Referring to the accompanying drawings, which forms a part of this specification, Fig. 1 is an isometrical view of an air-pump embodying my invention. Fig. 2 is a longitudinal central horizontal section of the air-pump proper and its cylinder and parts supporting the same.

Like letters of reference indicate corresponding parts in both views of the drawings hereof.

A A' A" are the legs of the supporting-frame of the pump, the former having an enlarged preferably circular transverse casing A' formed therein and all disposed in tripodical form and connected together at their upper ends by means of a pintle A", passed therethrough and secured therein.

B is a triangular base to which the diverging lower ends of the legs A A' A" are secured.

C is a pendulum lever suspended, by means of transverse holes C therein, from the pintle A" in the apex of the supporting-frame and provided at its lower end with a foot-rest C'.

D is an air-cylinder, D' a cap of the same, and E its piston, which together constitute an air-pump, which is oscillatively mounted by means of trunnions D' in suitable bearings in the casing A' of the leg A. This air-pump may be of the ordinary or any desired construction and is provided with the usual inlet and outlet valves (not shown) for the admission and egress of air.

F is a piston-rod fast by one end to the piston E and jointed at the other end and by means of a pivot F' to the pendulum lever C between its ends.

G is a preferably flexible tube for conducting compressed air from the pump D' to any mechanism requiring the same.

The pump is operated by placing one or both feet upon the rest C', and thereby swinging the pendulum lever C to and fro, which swinging movement will reciprocate the piston E in its cylinder D and compress air therein, to be thereafter discharged therefrom through the tube G.

What I claim as new, and desire to secure by Letters Patent, is—

In mechanism of the class described, in combination, the legs A A' A", a leg, as A, having a transverse casing A' formed therein and all disposed in tripodical form and connected together at their upper ends by means of a pintle A", and, at their lower ends, by means of the triangular base B, a pendulum lever C suspended, by its upper end, from the pintle A", and provided, at its lower end, with a 75 foot-rest C', an air-pump—comprising the cylinder D, cap D' and piston E—oscillatively mounted in the casing A', in the leg A, and a piston-rod F connecting the piston E, of the air-pump, with the pendulum lever C, substantially as and for the purpose specified.

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

LIBERTY WALKUP.

Witnesses:

L. L. MORRISON,
NELLIE ENNETT.