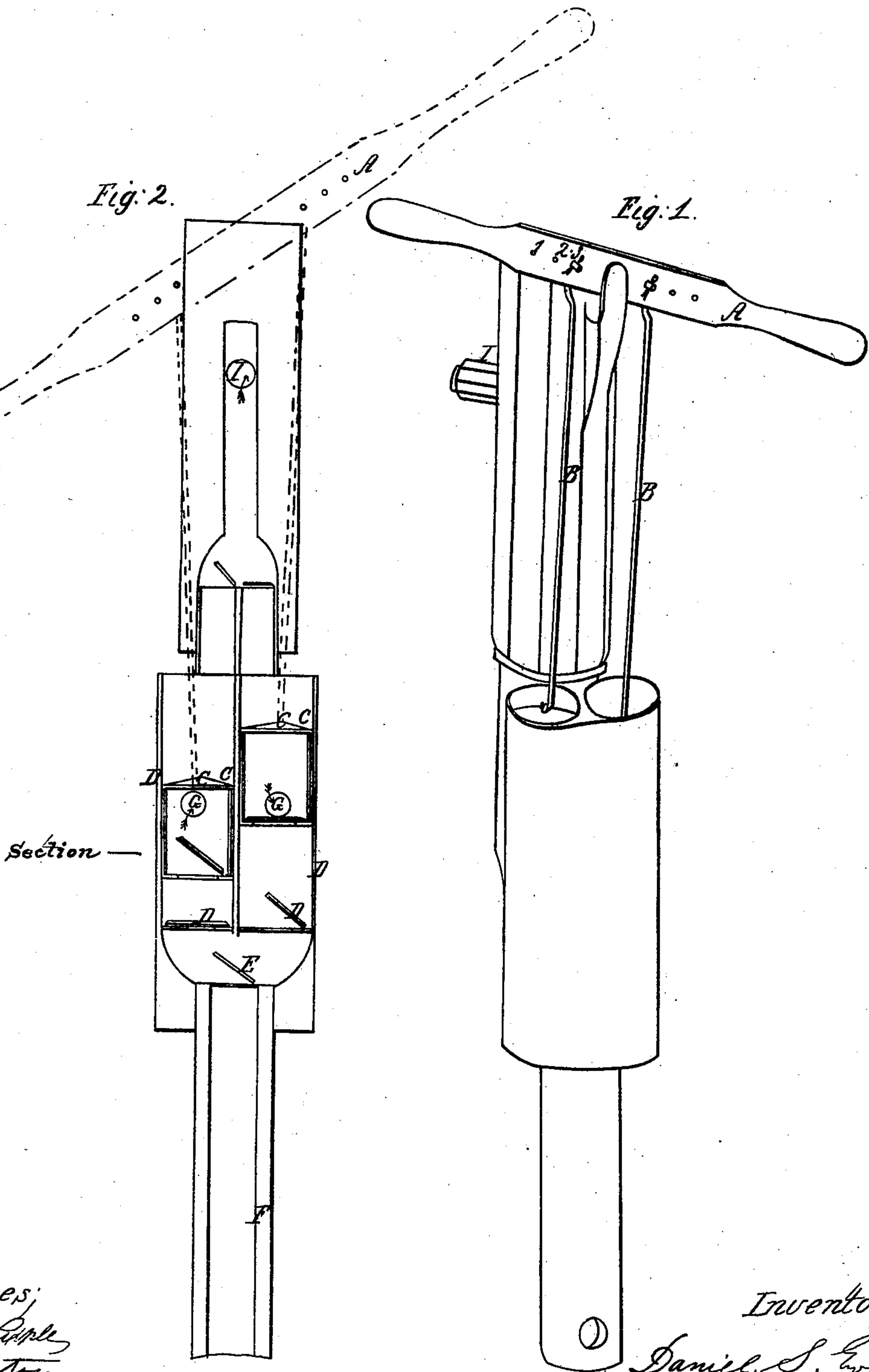


D. S. Evans.

Force Pump.

N^o 85,517.

Patented Jan. 5, 1869.



*Witnesses;
Frank Apple,
J. Charlton*

*Inventor;
Daniel S. Evans*



DANIEL S. EVANS, OF BROCKWAY, MICHIGAN.

Letters Patent No. 85,517, dated January 5, 1869.

IMPROVEMENT IN PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, DANIEL S. EVANS, of Brockway, St. Clair county, State of Michigan, have invented a new and useful Combined Double-Acting Suction and Force-Pump; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, the same making a part of this specification, in which—

Figure 1 is a perspective view;

Figure 2, a longitudinal elevation; in which—

A is a handle or brake.

L L are two cylinders, in which the pistons C C are fitted.

B B, piston or connecting-rods, connecting handles with combined plungers and suction-boxes, marked C C.

D D, check-valves at lower end of cylinder.

E, holding-valve at the head of the foot-piece or pipe marked F.

G G, ports, through which the water is forced from

cylinder to pump-head, through valves H H, at head of ports.

I, spout or hose-connection.

The stroke of the pump may be changed by changing connecting-rods in holes 1, 2, 3 in handle.

By disconnecting one connecting-rod, the pump may be operated at one-half its capacity with less power.

This pump may be constructed of wood or of metal, may be operated by hand or steam-power, and is particularly calculated for raising water to great height or from very deep wells.

This pump is claimed to raise or throw water with about one-half the power used in operating any other pump of the same capacity.

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

The two cylinders L L, together with the valves D D and valve E, in connection with valves H H, the whole constructed substantially as above described.

Witnesses:

DANIEL S. EVANS.

R. S. PATTERSON,

T. LOCKTON.