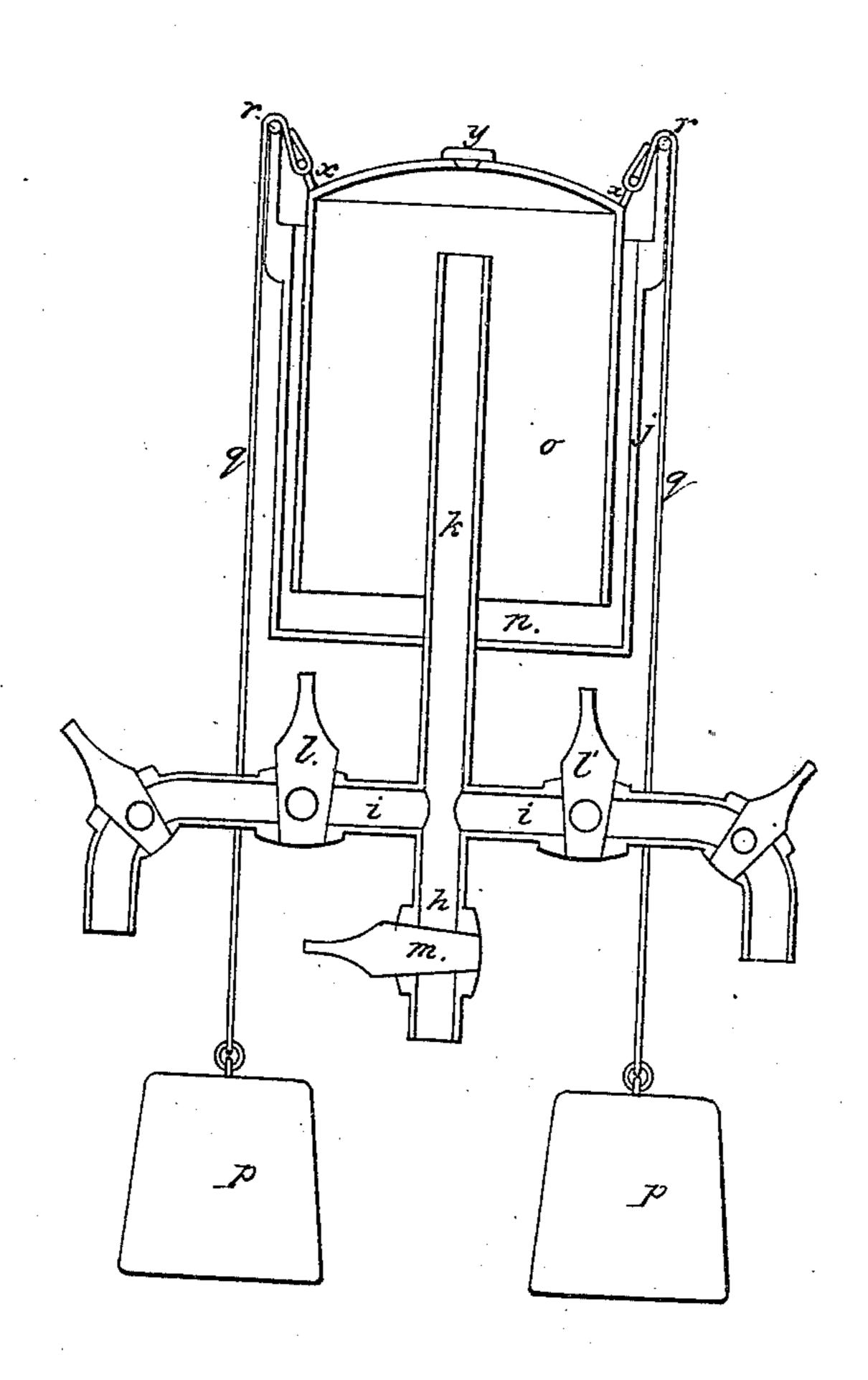
E. DUNSCOMB. VACUUM PUMP.

No. 62,738.

Patented Mar. 12, 1867.



WITNESSES:

Geo. D. Shattuck

INVENTOR:

Anited States Patent Pffice.

EDWARD DUNSCOMB, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 62,738, dated March 12, 1867; antedated February 28, 1867.

IMPROVEMENT IN VACUUM-PUMPS.

The Schedule reserred to in these Actters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWARD DUNSCOME, of the city of Bosten, county of Susfolk, and Commonwealth of Massachusetts, have invented a new and useful Improvement in Vacuum-Pumps, and hereby declare to be full, clear, and exact descriptions of the same, reference being had to the annexed drawings, making part of this specification, in which—

n denotes a cistern, suitably situated, filled with water, or other proper substance, to make a water-tight joint. o is a bell, which, by its descent into the contents of n, makes the water-tight joint. In the roof of o is a hole. y is a cap, which is put on the hole in o to close the hole, and taken off to open the hole in o. xx are ears firmly secured to roof end of o. qq are cords, one end of which is bound to ears xx. rr are pulleys situated above cistern n. The cords qq pass over the pulleys rr. PP are weights, to which the other ends of the cords qq are secured. K is a vertical pipe. One end of K enters the bottom, and runs up to the top of cistern n. The other end of pipe K enters the horizontal pipe i. i, a horizontal pipe, has stop-cocks ll'. h is a vertical pipe, which has stop-cock m. One end of pipe h enters pipe i. The other end of pipe h is connected with or enters into the vessel where vacuum is required. m is the stop-cock of pipe h. j is the vacuum-pump, formed by the several parts above described.

To work the vacuum-pump, first empty bell o of air, take off cap y, close stop-cocks l l' m, take off weights P P, when bell o will descend into its cistern n, and, by its descent, drive out all air from itself through the hole in its roof. To establish vacuum in vessel desired, screw on cap y, hang on to bell o its weights P P, open cocks l l' m. Bell o is drawn up by descent of its weights P P, and exhausts into itself all air from the vessel wherein vacuum is required. Now expel the air from bell o, as before described, open the cocks l l' m, and hang on the weights P P, when the pump empties the vessel wherein vacuum is required of all vapor. If the contents of the vessel wherein vacuum is needed be gas, the bell o draws up and stores in itself the gas for utilization, as explained in my application of this date for patent for vacuum-pumps, vacuum-pans, vacuum-stills, and vacuum-retorts.

Claim.

I claim the peculiar construction of the vacuum-pump jj; that is, as composed of the vessels n and o, and pipes hi K, with their stop-cocks, to operate both as vacuum-pump and vapor-receiver and storer, substantially as in manner described.

EDWARD DUNSCOMB.

Witnesses

C. H. GRIFFIN,
JAMES SKINNER.