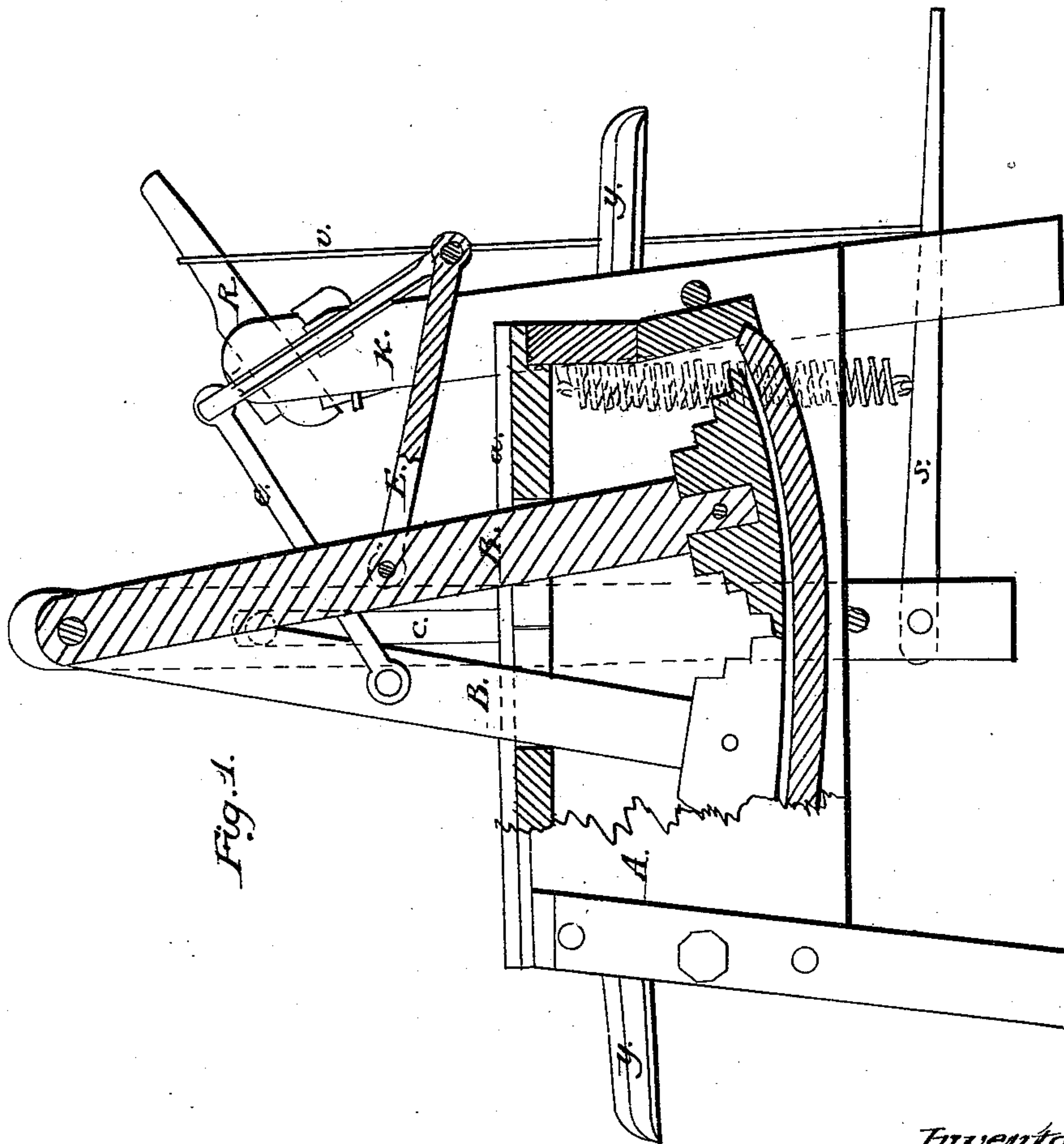
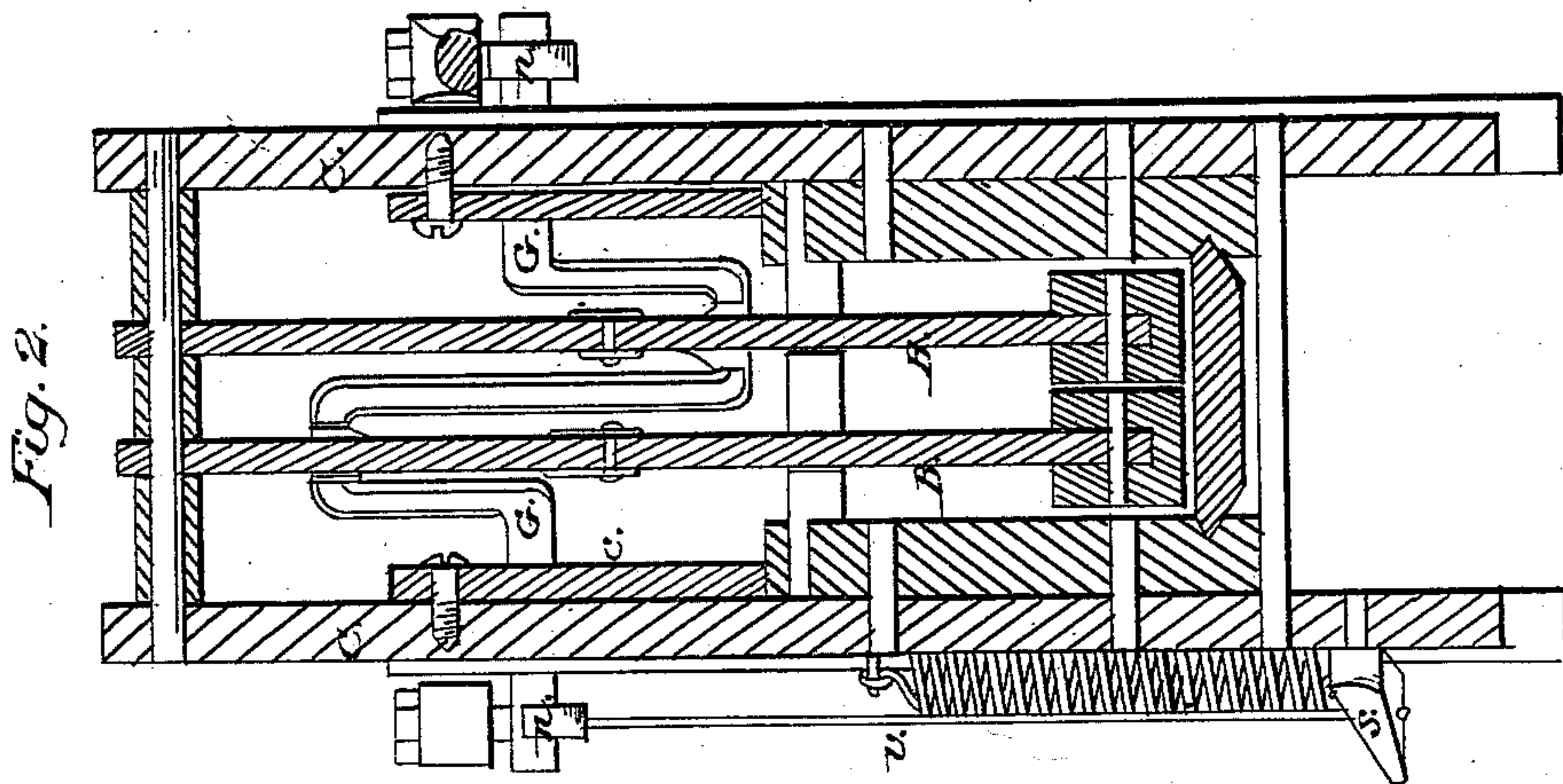


O. L. Hart.

Washing Machine.

Nº 93,880.

Patented Aug. 17, 1869.



Witnesses:
E. W. Anderson.
James P. Greese

Inventor:
O. L. Hart.
PER
Chapman, Hosmer & Co.
attorneys

United States Patent Office.

ORRIN L. HART, OF MILLVILLE, WISCONSIN.

Letters Patent No. 93,880, dated August 17, 1869.

IMPROVEMENT IN WASHING-MACHINES.

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, ORRIN L. HART, of Millville, in the county of Grant, and State of Wisconsin, have invented a new and valuable Improvement in Washing-Machines; 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1, of the drawings, is a side sectional view of my invention.

Figure 2 is an end view of the same.

My invention relates to washing-machines; and

It consists in a novel arrangement of devices, by means of which soiled clothing may be easily and expeditiously cleansed.

The letter A, of the drawings, represents the wash-tub, and

The letters B, two pendulum-beaters, arranged and operating upon a cross-bar that passes through the head of the vertical standards C, as shown.

The cover of my wash-tub is constructed in two sections, with suitable slots therein, to provide for the movements of the beater-bars.

The letters a represent wedges, above the cover, and

Letters c, two pivoted bars, arranged to fit upon the top of said wedges, and hold the same securely, and also to provide for the removal of the wedges and cover at will.

The letters E represent arms, extending from the beater-bars, respectively, to which they are pivoted to the crank-shaft G, next mentioned.

The letter G represents a crank-shaft, arranged, as shown, in bearings, upon the upright standards K, that

portion of which between the standards being bent into the form of cranks, as shown on fig. 2.

The respective ends of shaft G, outside standards K, are constructed in a quadrangular form, to adapt them to receive the staples n, next mentioned.

The letters n represent staples, adapted, respectively, to fit closely upon the square ends of shaft H.

The letters R represent levers, attached to the staples n, as shown, one of said levers having its handle extended toward the right and the other toward the left, for convenience in operating the same.

The letter s represents a treadle, pivoted to a leg of the tub, as shown, and connected with a lever, R, by means of the rod v, and a return-motion secured by the spring W.

The letters y represent handles, attached to the ends of the tub to aid in moving the same.

To operate my device, I place the soiled clothing and suds in the tub, and actuate the beaters by means of the levers R or the treadle s, as may be most desirable.

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

A washing-machine, having tub A, beaters B, wedges a, and bars c, adapted to the slotted sectional cover, arms e, shaft G, staples n, levers R, and treadle s, constructed, arranged, and operating substantially as specified.

In testimony that I claim the above, I have hereunto subscribed my name, in the presence of two witnesses.

ORRIN L. HART.

Witnesses:

WILLIAM HORSFALL,
JOHN HORSFALL.