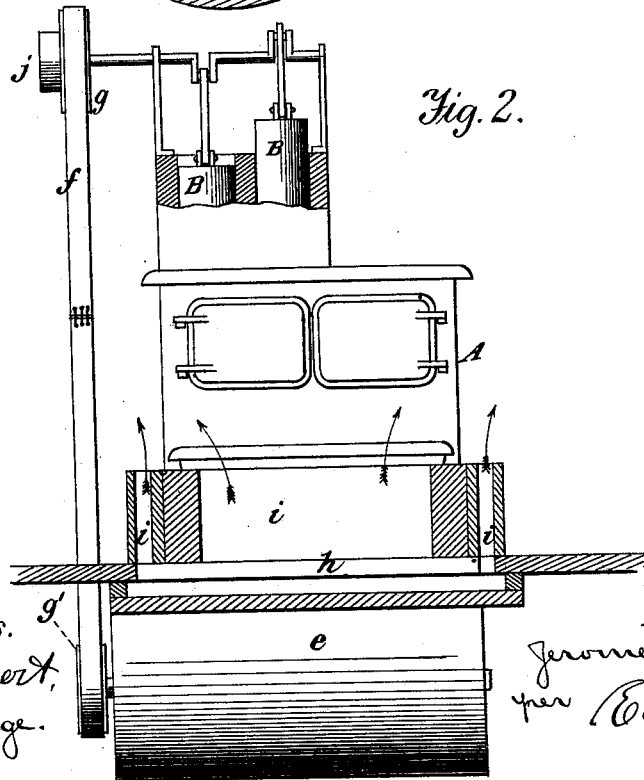
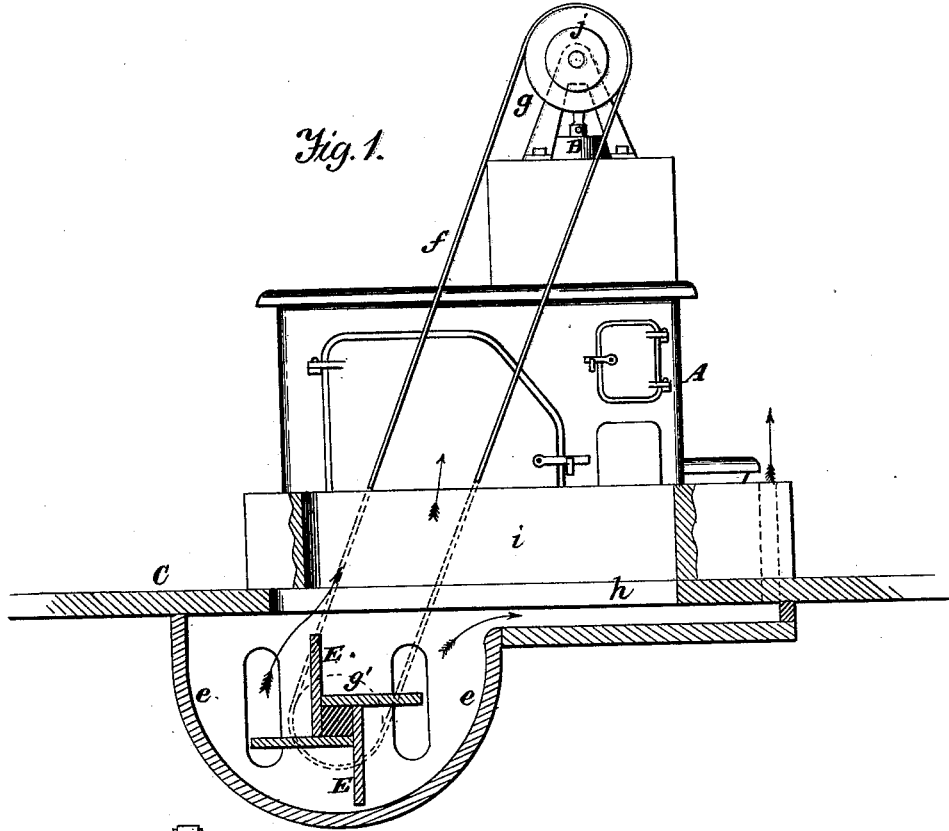


J. WALDRON.
Blast Apparatus for Stoves.

No. 208,501.

Patented Oct. 1, 1878.



Witnesses.
A. Ruppert,
Jas. H. Lange.

Inventor:
Jerome Waldron,
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UNITED STATES PATENT OFFICE.

JEROME WALDRON, OF CLOVER HILL, NEW JERSEY.

IMPROVEMENT IN BLAST APPARATUS FOR STOVES.

Specification forming part of Letters Patent No. **208,501**, dated October 1, 1878; application filed March 13, 1878.

To all whom it may concern:

Be it known that I, JEROME WALDRON, of Clover Hill, in the county of Hunterdon and State of New Jersey, have invented certain new and useful Improvements in Blast Apparatus for Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side view of my improvement, and Fig. 2 is a vertical section of the same.

Corresponding parts in the two figures are denoted by like letters.

This invention appertains to certain improvements in apparatus for generating a cold-air blast around a stove, between it and the attendant, and which will serve also as a motor; and it consists of the combination, with a stove, of a hot-air engine driven by the hot air of the stove, and connected with a fan arranged under the floor, and sending a blast up around the stove, substantially as hereinafter more fully set forth.

In the annexed drawing, A marks a stove, upon which is mounted a hot-air engine. Under the floor C is arranged a fan, E, hung in a case or receptacle, e, secured to the ceiling of the cellar or room below.

The engine B is driven by the hot air of the stove, and it in turn drives the fan E, which is connected to a crank or eccentric shaft of the engine by a belt, f, passing around pulleys g g', one placed upon the engine-shaft and the other upon the fan-shaft.

Apertures or openings h h are provided in the floor around the stove for the upward passage of the blast from the fan between the stove and the attendant. Conductors i i, arranged over said openings or apertures, may

be used, if desired, to prevent the dispersion of the blast or currents of air.

A second pulley, j, upon the engine-shaft may be used, in connection with a belt or its equivalent, for operating the dasher of a churn, or performing any other work of which it is susceptible.

By the passing of a blast up around the stove, the comfort of the attendant is greatly promoted, while at the same time the aroma of the cooking edibles will also be carried off.

This apparatus, in addition to generating a blast, also, as already intimated, serves as a motor for operating the dasher of a churn, or performing any other work of which it is susceptible.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In combination with a stove, a hot-air engine, and a fan driven by said engine, and generating a blast around the stove, substantially as and for the purpose set forth.

2. In an apparatus for the purpose aforesaid, the combination of a stove, a hot-air engine, having its crank or eccentric shaft provided with two or more pulleys, or a cone of pulleys, j j, a belt or belts, or their equivalents, and a fan, all arranged and operating substantially as and for the purpose set forth.

3. In an apparatus for the purpose aforesaid, the conductors i i arranged over apertures in the floor to prevent the dispersion of the blast or currents of air from the fan below, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in the presence of two witnesses.

JEROME WALDRON.

Witnesses:

GEORGE HANSON,
PAUL A. QUEEN.