

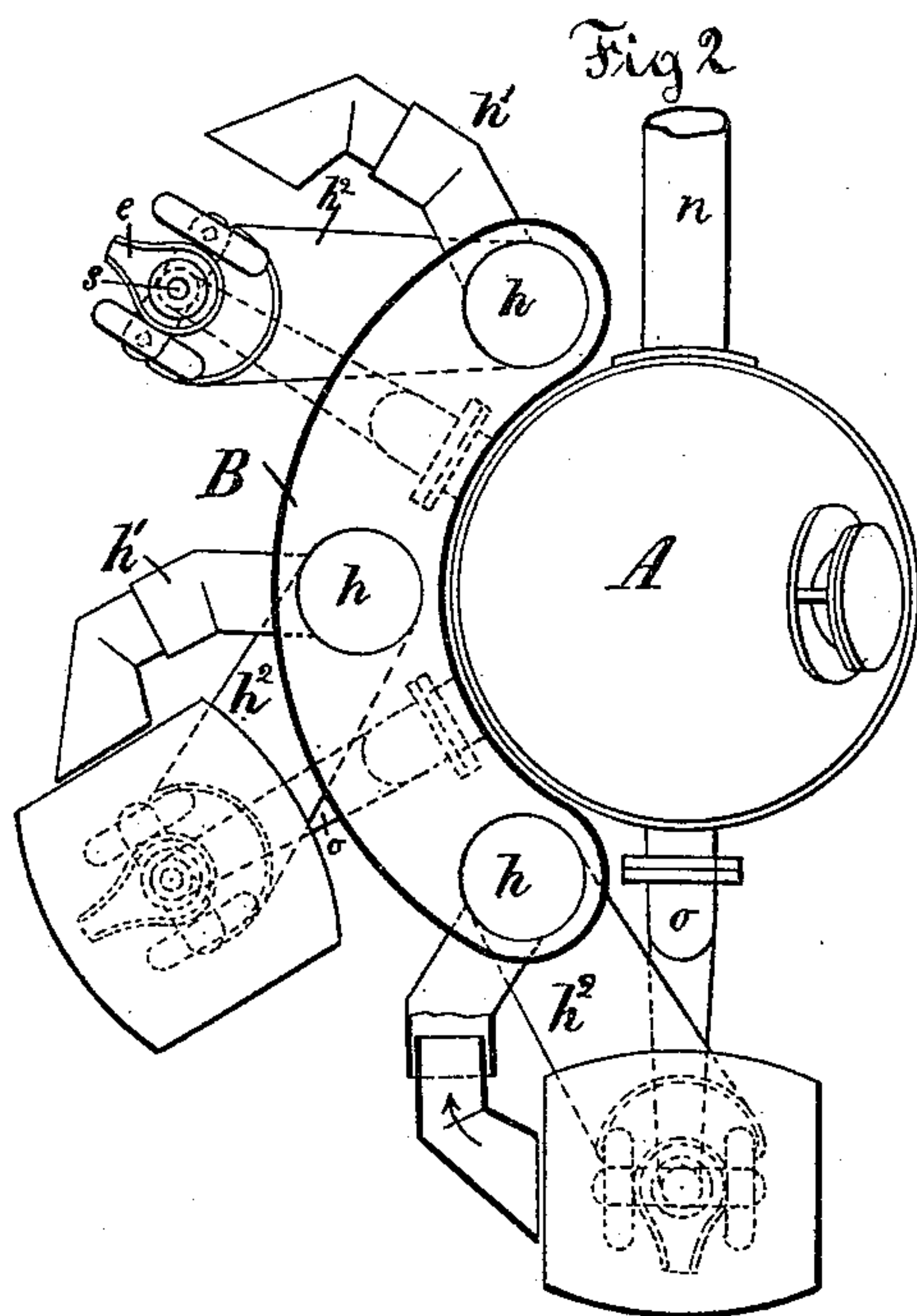
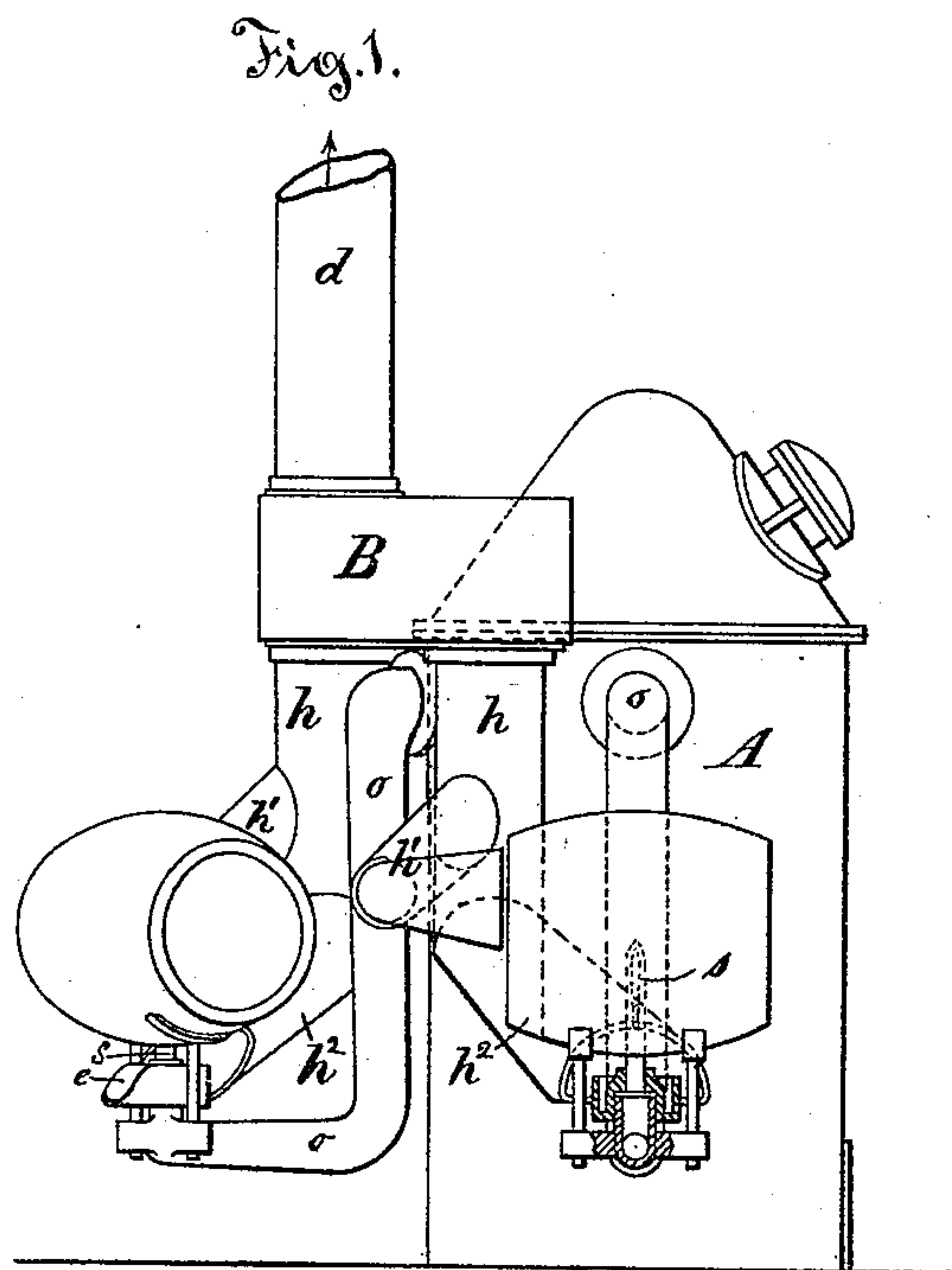
(No Model.)

2 Sheets—Sheet 1.

W. ARNEMANN.
PITCHING MACHINE.

No. 440,297.

Patented Nov. 11, 1890.



Witnesses:
L. N. Legendre
George Barry.

Inventor.
Wilhelm Arneemann.
by Attorneys.
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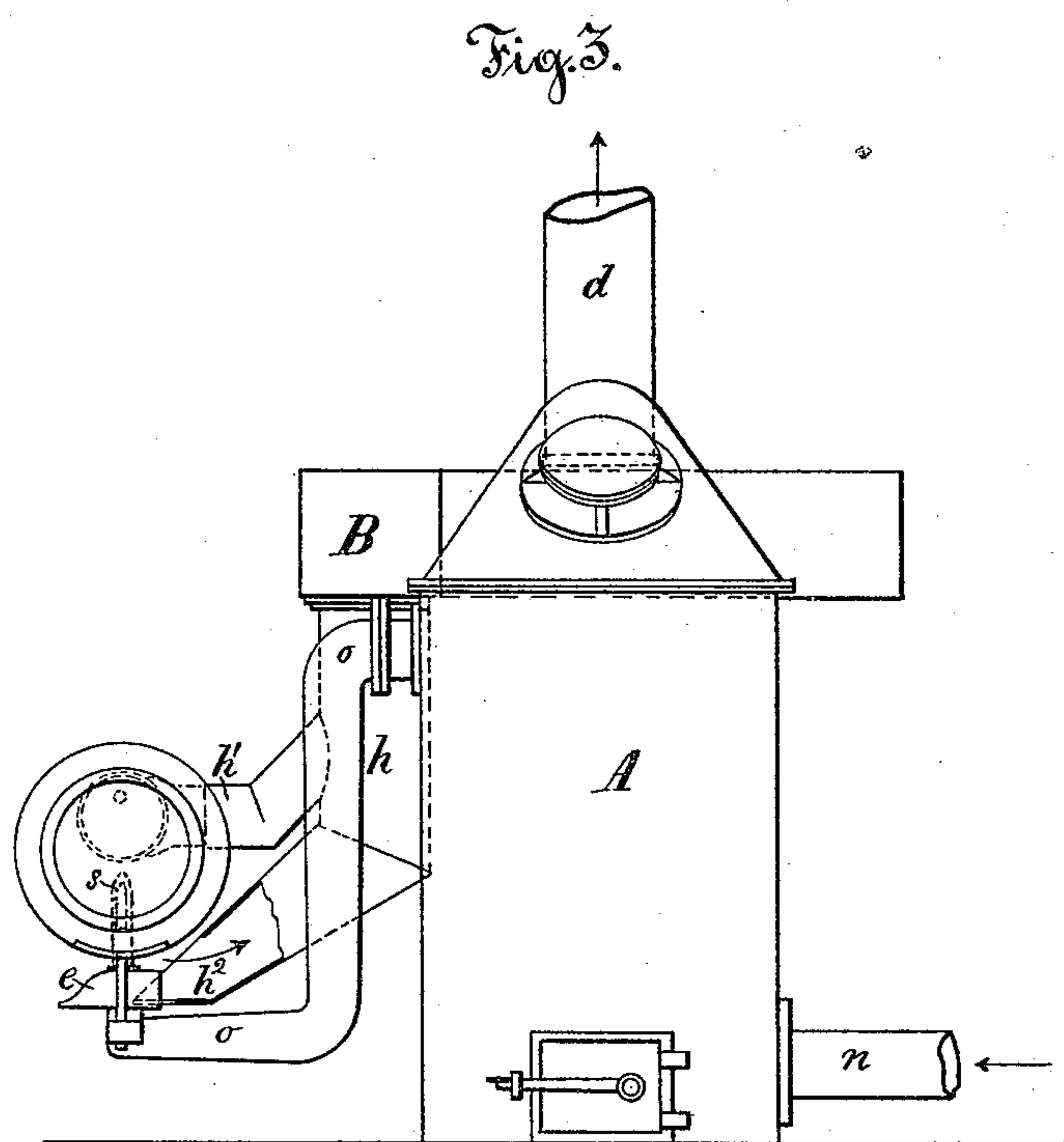
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UNITED STATES PATENT OFFICE.

WILHELM ARNEMANN, OF HAMBURG, GERMANY.

PITCHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 440,297, dated November 11, 1890.

Application filed August 23, 1890. Serial No. 362,839. (No model.)

To all whom it may concern:

Be it known that I, WILHELM ARNEMANN, of the city of Hamburg, in the Empire of Germany, have invented a new and useful Improvement in Pitching-Machines, of which the following is a specification.

The object of this invention is to provide for carrying off from a pitching-machine the vapor or smoke produced during the process of pitching.

The improvement consists in the combination, as hereinafter described and claimed, of a smoke-extractor with a pitching-machine, whereby both the pitching-machine and the extractor constitute one transportable apparatus.

Figure 1 in the accompanying drawings represents a front elevation, partly in section, of a pitching-machine with my improvement. Fig. 2 is a plan view of the same partly in section. Fig. 3 is a side elevation of the same, partly in section.

Similar letters of reference designate corresponding parts in all the figures.

The furnace A of the machine is of known construction, having within it a fire-place for a fire of coke, into which fresh air is to be introduced from a blower through a tube *n*, to be heated therein and led therefrom through tubes *o* to the nozzles *s*, upon which the barrels to be pitched are placed.

The smoke and vapor extractor consists, principally, of a box or hood B, partly surrounding the upper part of the furnace and having provided in its bottom tubes *h*, each of which has for each tube *o* and nozzle *s* two branches *h'* and *h²*, that are arranged in such manner shown that after the barrel to be pitched has been placed on or over the corresponding nozzle *o* the tube *h²* terminates

underneath the bung-hole of the barrel and the corresponding tube *h'* terminates near the tap-hole. A tube *d* leads from the box or hood B to an exhauster, which may be of any known or suitable kind not necessary to be shown.

While operating the machine hot air from the furnace enters the barrels through the tubes *o* and nozzles *s* and melts the old pitch attached to the inner surface of the barrels. This pitch runs out of the bung-hole near the sides of the nozzle into a reservoir *e*. At the same time the exhauster removes the smoke from the barrel through the tubes *h'* and *h²* into the box or hood B, and thence through the tube *d* into the atmosphere, or to a place where it cannot molest the workmen or other people. The suction-tubes *h'* and *h²* can be closed each by a slide or flap to close one or more of the same toward the box or hood B if the corresponding tubes *o* and nozzles *s* have to be shut out from work. The ends of the tubes *h'* are made telescopic to provide for a close fit to the barrel-surface.

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

The combination, with the furnace A, the hot-air pipe *o*, and nozzle *s* of a pitching-machine, of a box or hood B, arranged near the said furnace and provided with an exhaust-pipe *d* and with tubes *h'* *h²* for forming communication, respectively, with the tap-hole and bung-holes of a barrel placed over the said nozzle, substantially as and for the purpose herein set forth.

WILHELM ARNEMANN.

Witnesses:

F. ENGEL,
H. WITT.