

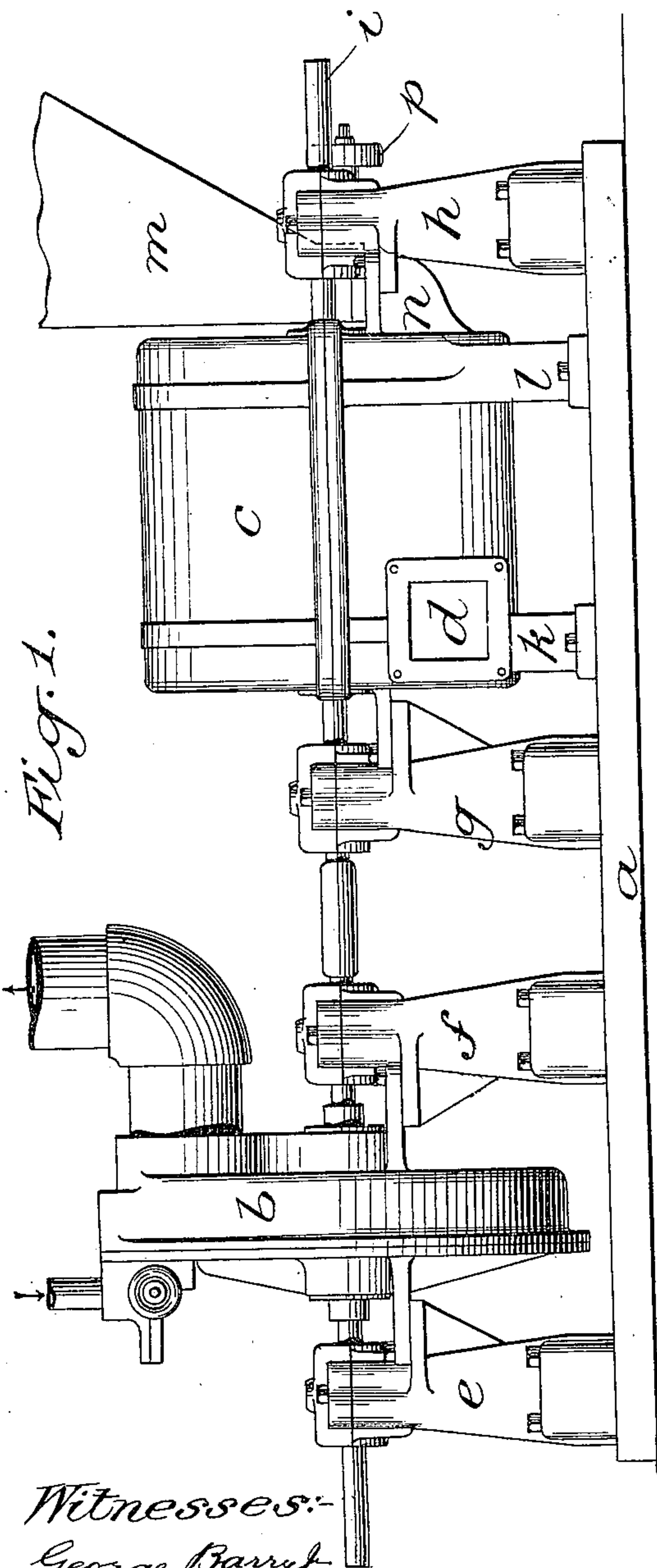
No. 659,200.

Patented Oct. 9, 1900.

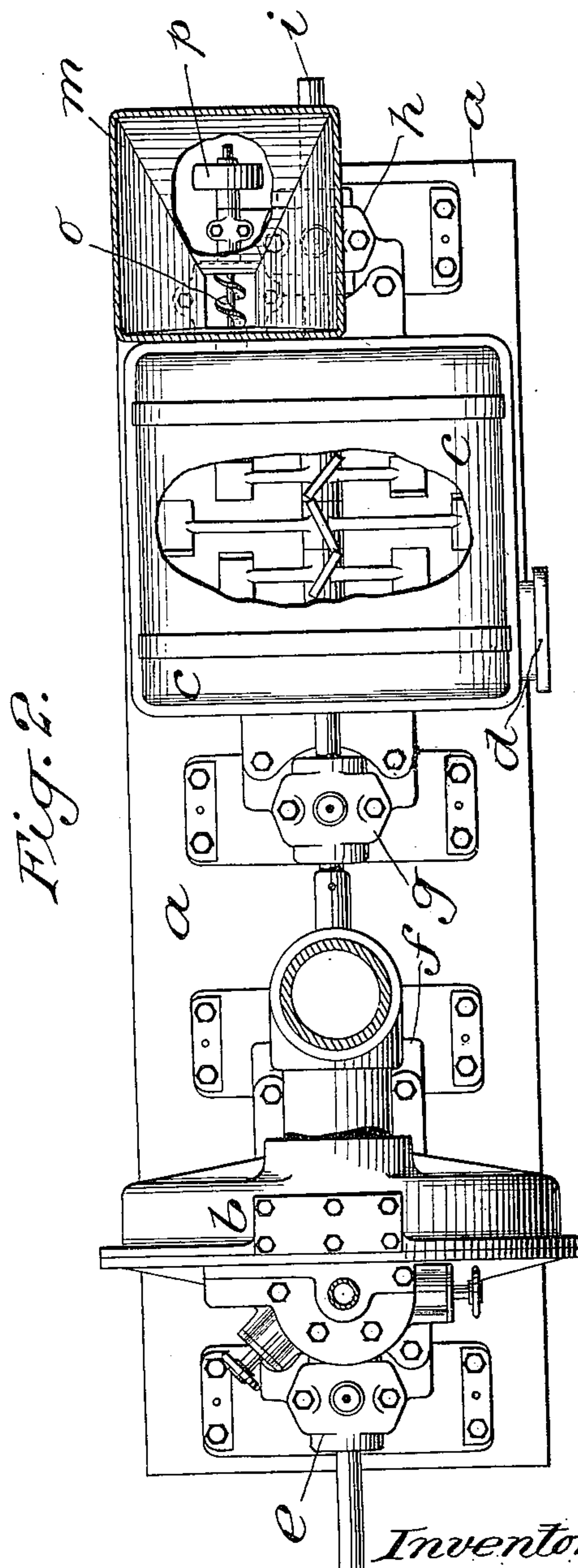
T. ASENCIO.
FUEL FEEDING ATTACHMENT.

(Application filed Apr. 27, 1900.)

(No Model.)



Witnesses:
George Barry
Edward Vieser.



Inventor:
Thomas Asencio
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UNITED STATES PATENT OFFICE

THOMAS ASECIO, OF NEW YORK, N. Y., ASSIGNOR TO ALFRED P. BOLLER,
OF SAME PLACE.

FUEL-FEEDING ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 659,200, dated October 9, 1900.

Application filed April 27, 1900. Serial No. 14,530. (No model.)

To all whom it may concern:

Be it known that I, THOMAS ASECIO, a citizen of the United States, and a resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Fuel-Feeding Attachment, of which
5 the following is a specification.

My invention relates to an attachment for feeding fuel in a pulverized or powdered
10 state to steam-boiler and other furnaces.

The object is to provide a feeding device which is complete in itself and which may be made and sold as an article of manufacture in sizes to suit the different demands
15 for furnaces, either stationary or locomotive.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 is a view of the attachment in side
20 elevation; and Fig. 2 is a top plan view, the hopper and the pulverizer-casing being broken away to show the screw feed and rotary beaters and blower.

a represents a base common to a rotary
25 motor, a rotary pulverizer, a feed-hopper, and means for forcing the material from the hopper into the pulverizer.

b represents a rotary motor of any well-known or approved form—in the present instance a steam-turbine. As my invention does not relate specifically to the particular form of rotary motor, the same is indicated only in elevation and top plan and will be recognized as a form in common use. In
35 like manner *c* represents a pulverizer of any well-known or approved form, the form here indicated being that in which the coal is beaten into a pulverized or floured condition by rotary beaters, which have their blades so
40 set as to force the matter from the feed end of the pulverizer to the discharge end *d* of the same. The pulverizer *c* also acts either alone or in connection with a blower located therein to produce an air-blast outwardly
45 through this discharge-opening *d* to blow the pulverized or powdered material into the furnace.

The arrangement for pulverizing and blow-

ing the material does not specifically form a part of my present application and is therefore only represented in side elevation and top plan.

From the common base *a* arise supporting-standards *e f g h*, in the tops of which standards a shaft *i* is journaled, the said shaft
55 *i* being common to the rotary motor and to the rotary beaters and the rotary blower, (represented as the pulverizer *c*.)

The casing within which the rotary beaters and rotary blower of the pulverizer are located is supported from the common base *a* by means of legs *k l*.

The hopper *m*, which directs the coal to the pulverizer, is supported on a bracket *n*, attached to the end of the pulverizer-casing, and a feeding device—in the present instance a screw-feed *o*, located at the base of the hopper and driven by means of a pulley *p* from a source of power not shown—serves to force the coal at a uniform rate into position to be
65 engaged by the beaters of the pulverizer.

The gist of my invention lies in the combination of a motor, pulverizer, and blower in such compact form and so correlated in capacity and operation that an attachment of
75 a given capacity will furnish the necessary and uniform amount of fuel elements (powdered coal and air) required for any particular furnace, thus obviating the difficulties hitherto experienced in attempting to secure
80 the proper feed by setting up the pulverizer, blower, and motor, one or more of them, independently of the other or others.

My present attachment, being made in the proper proportions and simplified by placing
85 these several important parts on a common shaft, the whole supported upon a common base, so that it may be shipped intact, assures perfect action, the only requirement from the purchaser being the size of furnace or amount
90 of steam required to be generated.

What I claim is—

An attachment for steam-boiler and other furnaces comprising a rotary motor and a rotary pulverizer and blower arranged to be
95 actuated by the motor, the said motor, pul-

verizer and blower having a common shaft
and being so correlated in capacity and oper-
ation that an attachment of a given capac-
ity will furnish the necessary and uniform
5 amount of fuel elements required for any par-
ticular furnace.

In testimony that I claim the foregoing as

my invention I have signed my name, in pres-
ence of two witnesses, this 24th day of April,
1900.

THOMAS ASENCIO.

Witnesses:

FREDK. HAYNES,
EDWARD VISER.