

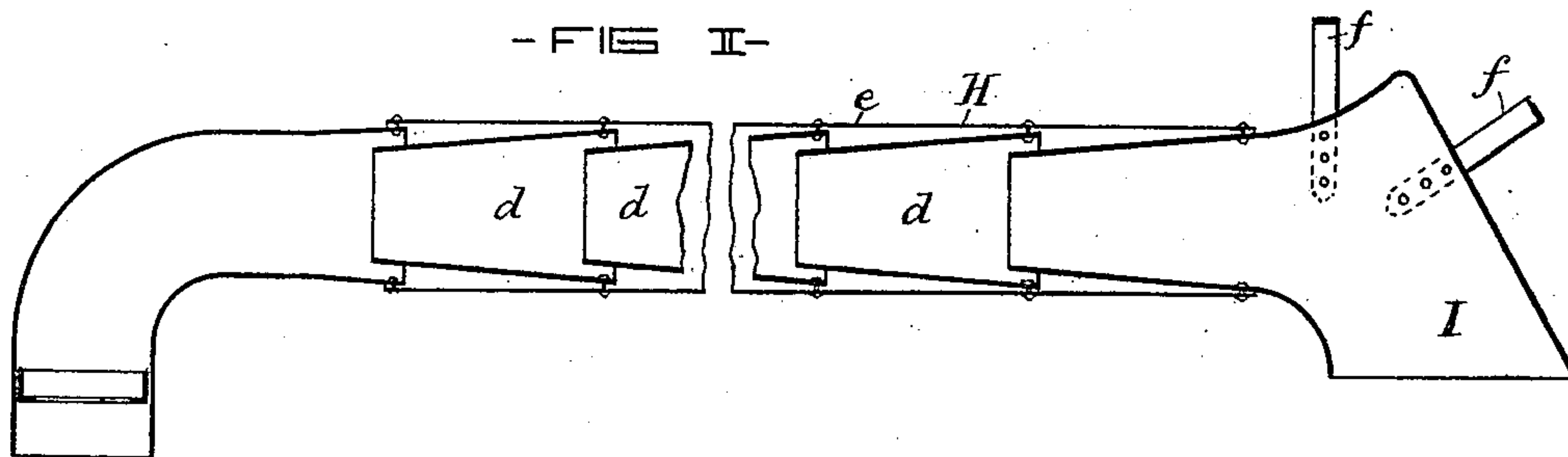
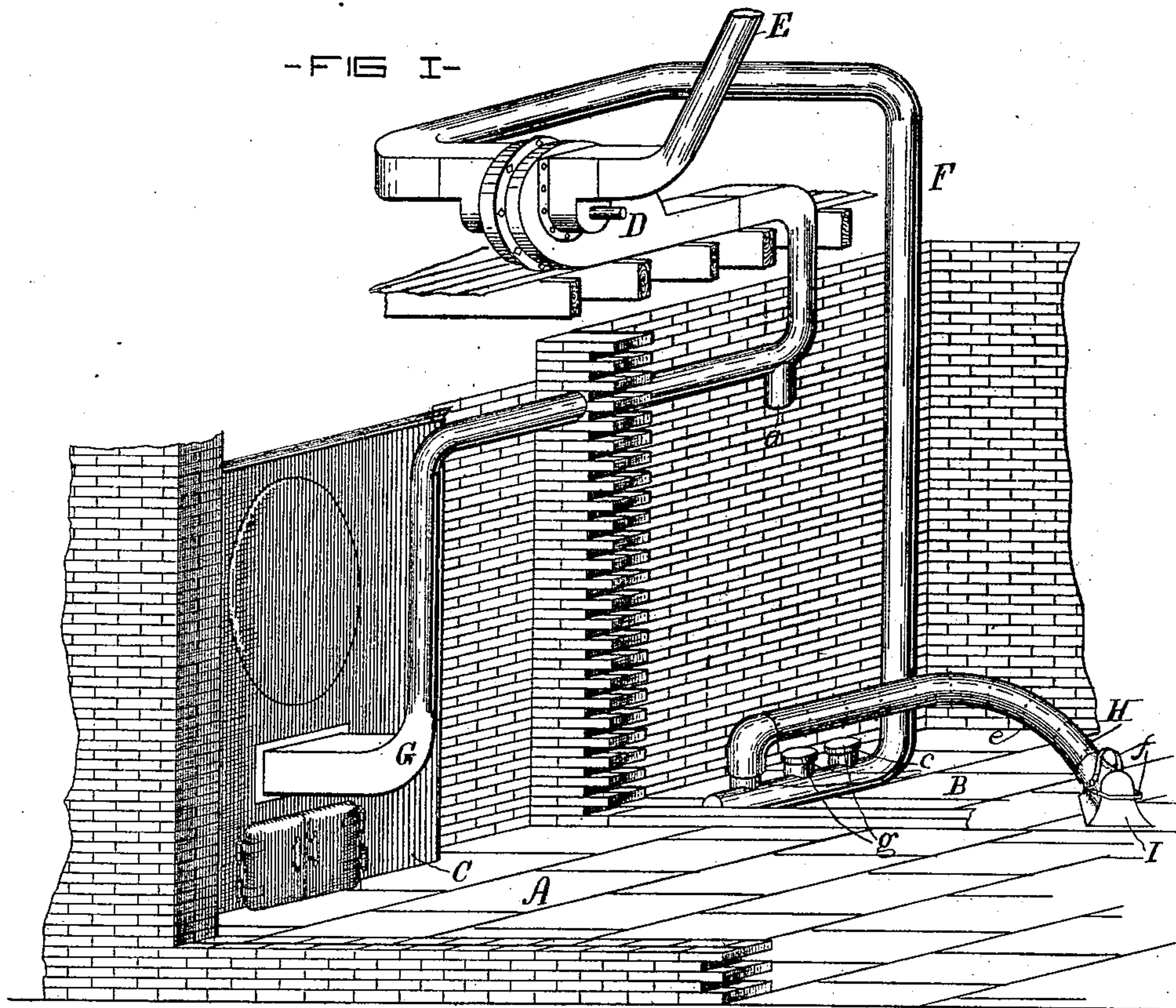
(No Model.)

J. B. MAHAFFEY.

APPARATUS FOR FEEDING SHAVINGS TO FURNACES.

No. 300,990.

Patented June 24, 1884.



- WITNESSES -

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UNITED STATES PATENT OFFICE.

JAMES B. MAHAFFEY, OF BALTIMORE, MARYLAND.

APPARATUS FOR FEEDING SHAVINGS TO FURNACES.

SPECIFICATION forming part of Letters Patent No. 300,990, dated June 24, 1884.

Application filed November 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. MAHAFFEY, of the city of Baltimore and State of Maryland, have invented certain Improvements in
5 Apparatus for Feeding Shavings to Furnaces, of which the following is a specification.

This invention relates to certain improvements in the construction of the apparatus whereby shavings may be fed either from the
10 workshop where they are produced or from the storage-room, as will hereinafter appear.

In the drawings forming a part hereof, Figure I is a perspective view of parts of a building, illustrating the application thereto of my
15 improved apparatus. Fig. II is a sectional view, on an enlarged scale, of a part of the invention.

A is the boiler-room, and B the storage-room for shavings, separated from the boiler-
20 room by a wall.

C is the boiler-front, and D a suction and forcing fan located on an upper floor in the building. The location of the fan has, however, no bearing on the present invention, as
25 its position is always governed by circumstances and peculiarities in construction of the building.

E is the main supply-pipe, through which shavings are drawn from the workshop to the
30 suction part of the fan.

F is a supplemental supply-pipe extending from the storage-room B to the fan.

G is the delivery-pipe by means of which shaving are forced from the fan to the boiler-furnace, and it has a nozzle, *a*, whereby the
35 whole or a portion of the shavings may be delivered to the storage-room B. The nozzle *a* and the other pipes are provided with suitable gates or valves, (not shown,) whereby
40 movement of the shavings is controlled. The lower end of the supplemental supply-pipe F is closed, and has nozzles *c*, any one of which is adapted for attachment to a flexible pipe, H. The straight part of the pipe H is formed
45 of several metallic sections, *d*, of conical form, inserted one within the other, and connected

only on the outside by a continuous canvas sleeve, *e*, so as to admit of the pipe being bent or curved. The outer end of the pipe H has a scoop or shovel, I, with handles *f*, where-
50 by it can be moved about the floor of the storage-room.

When the wood-working machines and the fan are in operation, the shavings are drawn from the rooms in which they are produced
55 and forced to the furnace through the delivery-pipe G; but should the quantity of shavings be greater than necessary for the furnace the nozzle or branch pipe *a* is opened and the surplus discharged to the storage-room. 60
Supposing that machinery in the building other than the wood-working machinery is in operation, and the machines which produce shavings stopped, the supply is then taken
65 from the storage-room through the supplemental supply-pipe F, the flexible inlet-pipe being moved about to where the shavings have accumulated.

It will be understood that the curved neck of the flexible pipe H fits loosely over the nozzle on the pipe F, to which it is applied, and
70 may be easily turned, and that the nozzles not in use are covered with caps *g*.

I claim—

1. An apparatus for feeding shavings to
75 boiler-furnaces, which consists of a suction and forcing fan, a delivery-pipe leading from the fan to the boiler-furnace, having a discharge-nozzle therein, and a main and supplemental
supply-pipe for the fan, the said supplemental
80 pipe having a scoop or shovel, substantially as and for purpose specified.

2. In a fuel-feeding device, the flexible supply-pipe H, having its central portion formed of metallic conical sections, placed one within
85 the other and connected by an exterior sleeve of canvas, substantially as specified.

JAMES B. MAHAFFEY.

Witnesses:

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