

(No Model.)

D. SHEEDY.
BAG FOR CATCHING METALLIC FUMES.

No. 480,834.

Patented Aug. 16, 1892.

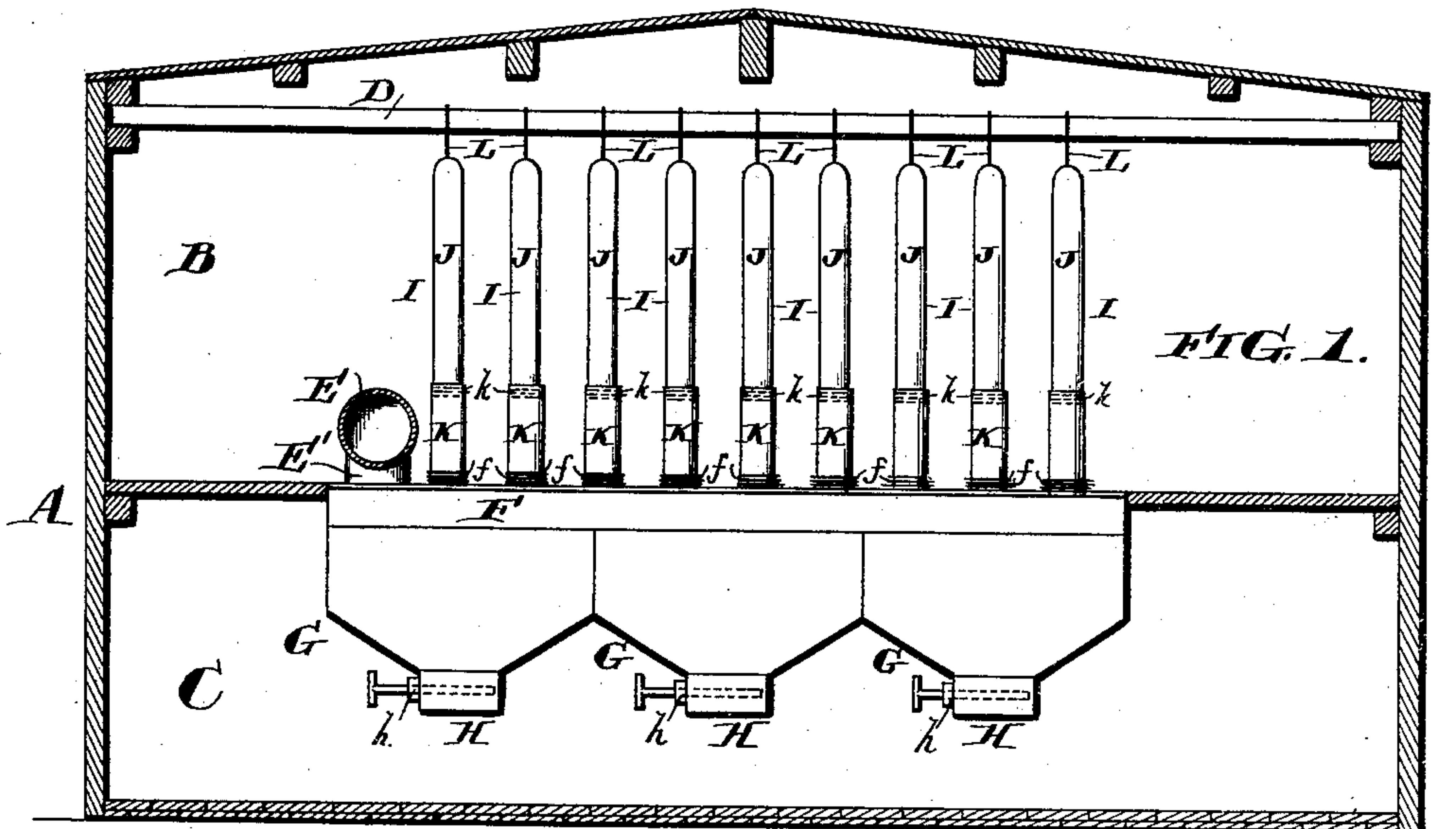
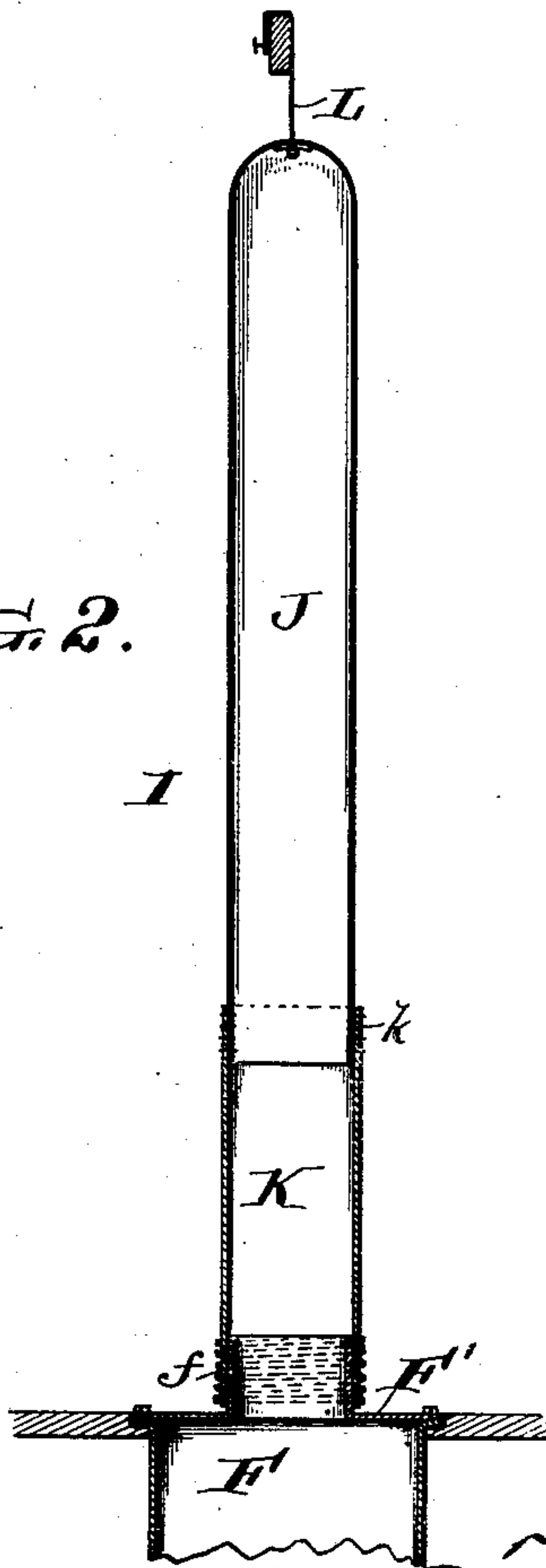


FIG. 2.



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UNITED STATES PATENT OFFICE.

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BAG FOR CATCHING METALLIC FUMES.

SPECIFICATION forming part of Letters Patent No. 480,834, dated August 16, 1892.

Application filed December 8, 1891. Serial No. 414,418. (No specimens.)

To all whom it may concern:

Be it known that I, DENNIS SHEEDY, of the city of Denver, county of Arapahoe, and State of Colorado, have invented a certain new and useful Bag for Catching Metallic Fumes, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part of this specification.

10 My invention relates to the construction of screening-bags, such as are used for screening the smoke, &c., from metallurgical furnaces, so as to separate and save the solid particles of metallic oxides, &c. Heretofore such bags
15 have been made of various material, of which woolen fabric is the most desirable, principally because of its superior durability, which, however, is largely offset by its high cost. I have discovered that a durable and efficient
20 bag can be made by making it of two materials—that is, with a mouth-section preferably of woolen fabric (flannel) or of some strong material which will not be easily destroyed by hot fumes and a continuation or body-section formed of a cheaper fabric, such as muslin, and I will here explain that by “mouth-section” I mean that end of the bag into which the gaseous products of combustion first enter.

30 Reference now being had to the drawings which illustrate my invention, Figure 1 is a sectional elevation of a bag-house equipped with bags constructed according to my invention, and Fig. 2 is an enlarged view of one bag and its immediate connections.

35 A is the bag-house, having a bag-room B and a dust-room C.

D indicates one of a series of beams traversing the top of the bag-room.

40 E is a conduit leading from the main flue (not shown) to a series of hoppers, of which F is one, E being a connecting-pipe.

The hoppers F, which form, it will be understood, no part of my invention, but are simply shown as one familiar device in use for the purpose, are secured in or to the floor of

the bag-room and extend down into the dust-room, having a series of openings H, formed in sloping extensions G and closed by gates *h*, so that their contents can be from time to time
50 drawn off into the dust-room.

F' F' are sleeves extending up into the bag-room from the hopper-boxes F, one being provided for each bag.

I I I, &c., are the bags, which are suspended
55 from the beam D by wires L and made up of two sections, as described, J being the body-section, preferably formed of muslin, and K the mouth-section, of flannel or other strong durable material, such as asbestos or sea-
60 grass. The two sections are united at K, and the end of the mouth-section K is secured to the sleeve or thimble F', as shown at *f*.

I have found that in practice the best results are secured with bags the mouth-sections of
65 which are about five or six feet long. The mouth of the bag is not only exposed to greater heat than the body portion, but is also exposed to greater strains in shaking the bag, &c., and to the action of hot acid, and by using the
70 flannel or other suitable material for this part I find that I secure a bag substantially as durable as a bag wholly of such material, for the body portion J, being removed from the heat and not exposed to great strains, will last
75 substantially as long as the mouth-section, and the whole bag is at once cheaper than and as efficient as a bag wholly of the stronger and dearer material.

Having now described my invention, what
80 I claim as new, and desire to secure by Letters Patent, is—

A bag for catching metallic fumes, having a mouth-section of strong fabric, such as wool, in combination with a body-section of
85 lighter and less durable material, substantially as and for the purpose specified.

DENNIS SHEEDY.

Witnesses:

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