

No. 768,482.

PATENTED AUG. 23, 1904.

M. PRIGGA.  
FINE FUEL FEEDING APPARATUS.

APPLICATION FILED JAN. 6, 1904.

NO MODEL.

FIG.1.

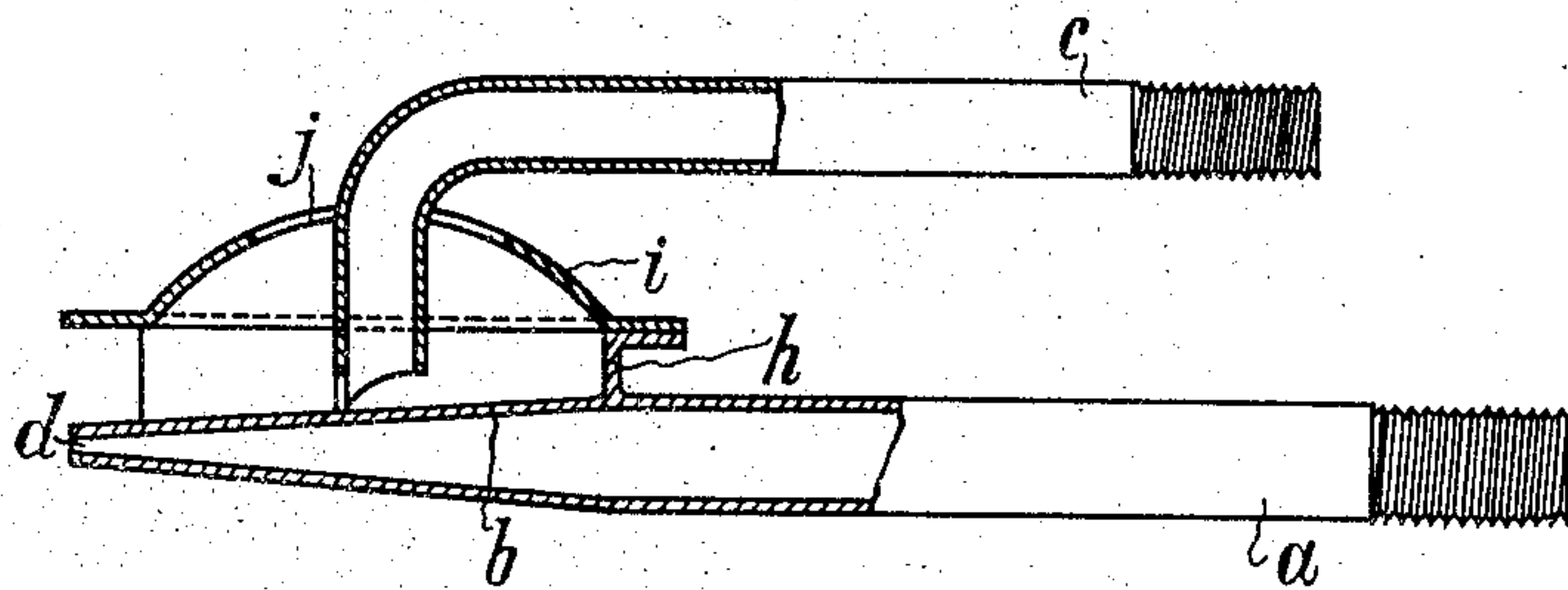


FIG.3.

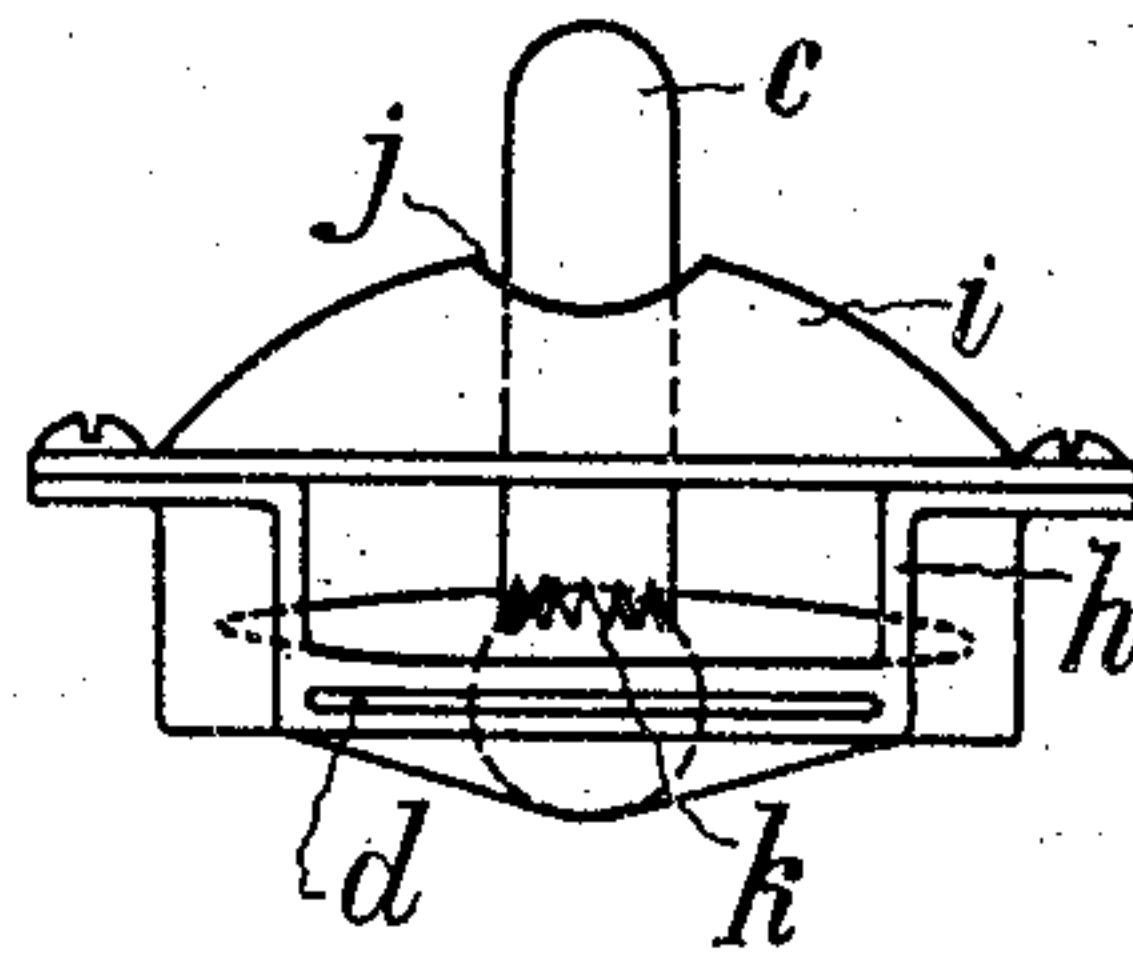


FIG.2.

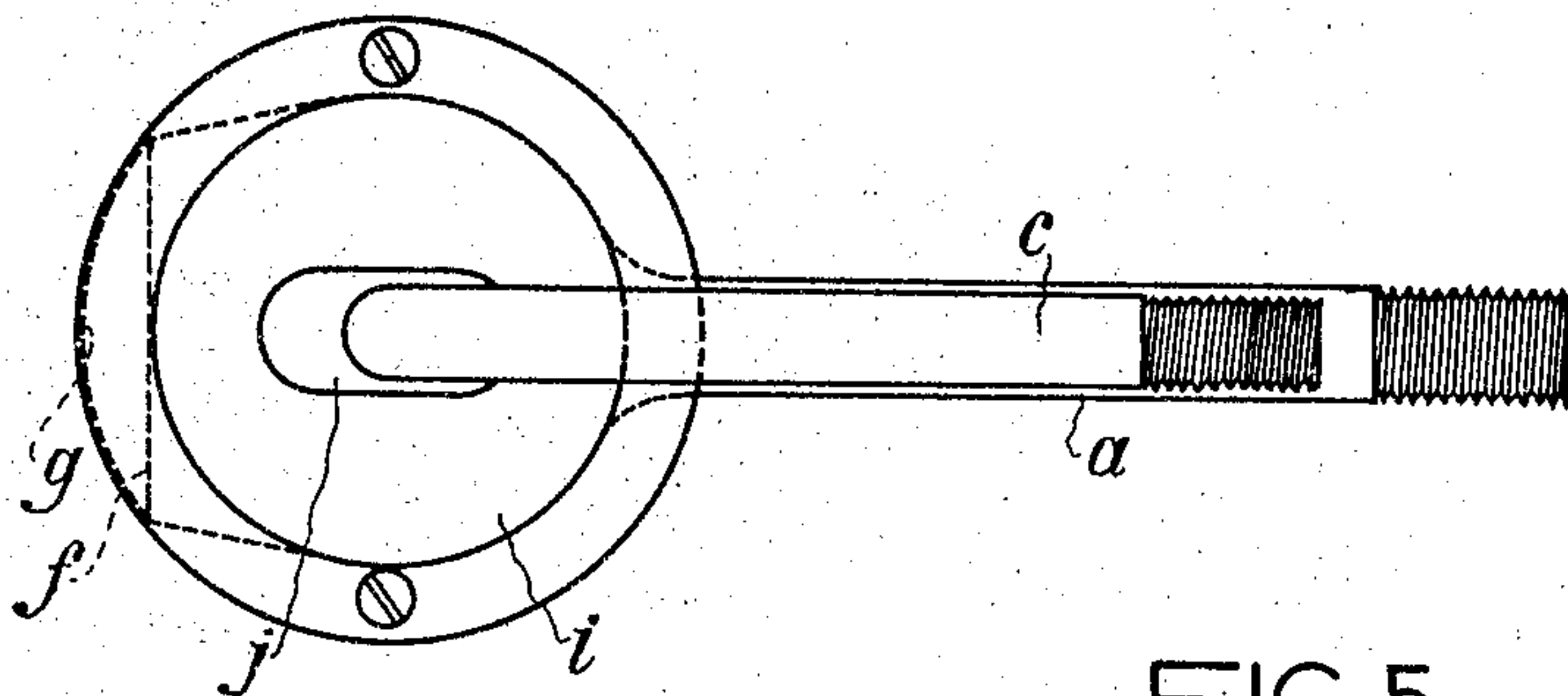


FIG.4.

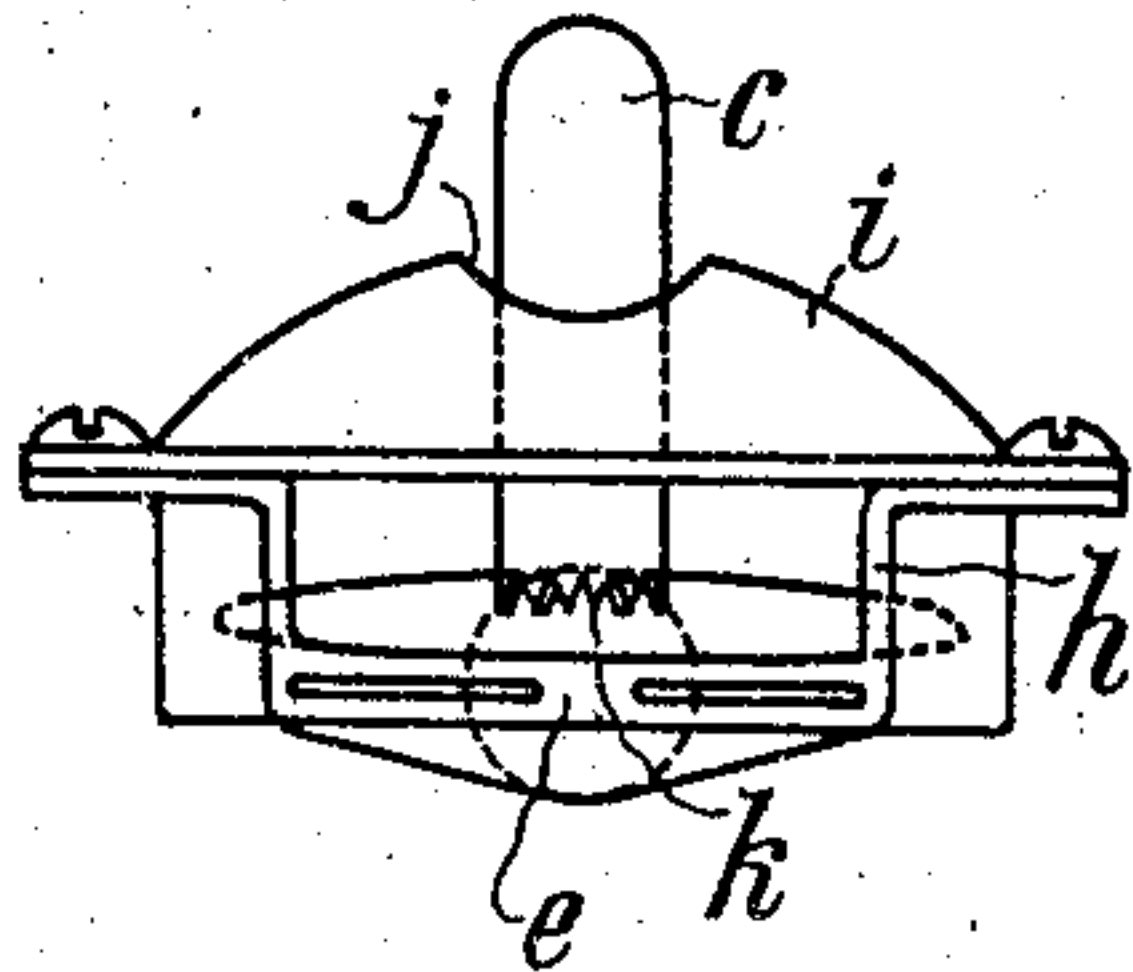
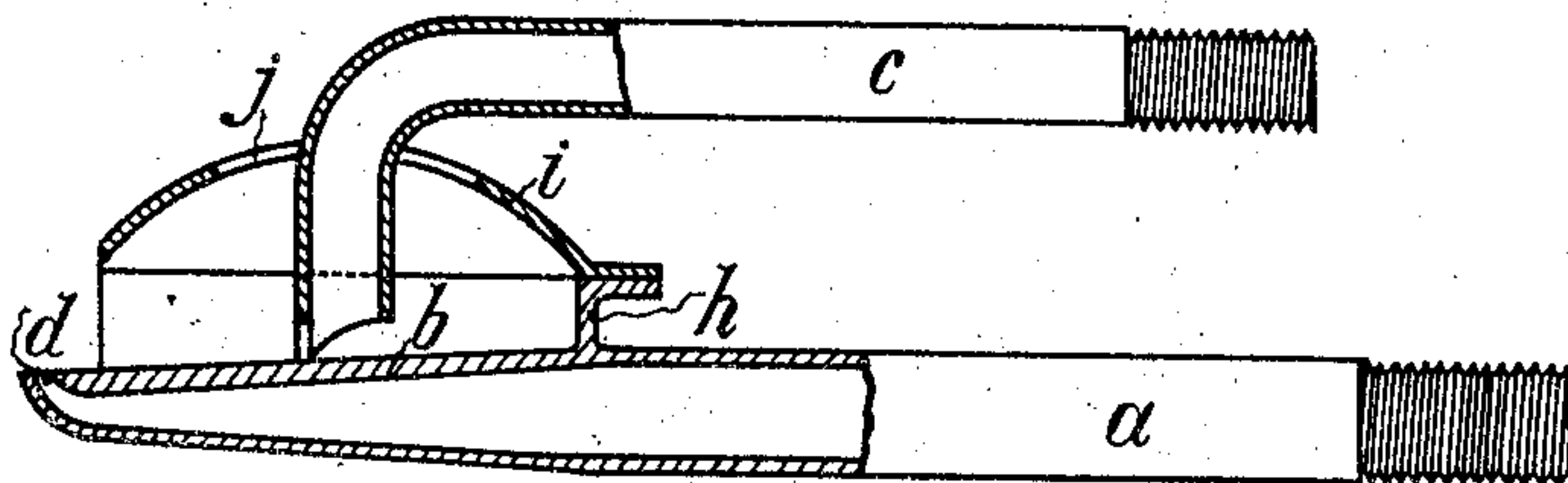


FIG.5.



Witnesses  
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# UNITED STATES PATENT OFFICE.

MATIHS PRIGGA, OF ST. PETERSBURG, RUSSIA.

## FINE-FUEL-FEEDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 768,482, dated August 23, 1904.

Application filed January 6, 1904. Serial No. 187,978. (No model.)

*To all whom it may concern:*

Be it known that I, MATIHS PRIGGA, residing at 33 Kurljandskaja, 15th Quartier, St. Petersburg, in the Empire of Russia, have invented 5 new and useful Improvements in Fine-Fuel-Feeding Apparatus, of which the following is a specification.

My invention relates to a spray-producer which is chiefly designed for spraying massut 10 to be burned in steam-generators and other apparatus.

In the accompanying drawings, wherein the invention is represented, Figure 1 is a vertical longitudinal section of a constructional form. 15 Fig. 2 is a plan, and Fig. 3 is an end view, of the same. Fig. 4 is an end view of a modification. Fig. 5 is a vertical longitudinal section of another modification.

For the admission of the steam or a like medium required for the spraying I provide a pipe 20 *a*, having its front part flattened and widened in such a manner that the upper wall *b* of the flattened part forms a plane surface, over which the massut conducted through a pipe *c* is 25 spread. At its front end the pipe *a* has a slit *d*, Figs. 1 and 3. In the modification shown in Fig. 4 this slit is interrupted by the tongue *e*. The slit *d* may either terminate in a straight edge *f*, as represented in Fig. 2, or 30 in a rounded edge. In the modification shown in Fig. 5 the slit *d* has an upwardly-bent and rounded part to adapt the spray-producer for use in heating vertical steam-generators.

At the upper surface *b* of the pipe *a* I provide a rim *h*, which leaves an opening toward 35 the front—that is to say, above the slit *d*. The rim *h* has at its upper edge a flange to which the cap *i* is secured. An aperture *j* enables the pipe *c* to be inserted into the chamber formed below the cap *i*. The massut-admission pipe *c* is beveled off at its end extending below the cap and flattened in front, 40 where it is provided with dents or teeth *k*, by which the massut issuing from the pipe *c* is distributed over the surface *b*.

By this spray-producer the massut may also

be sprayed with the aid of compressed air instead of steam. In case the dimensions are increased the compressed air may be employed for spraying coal-dust, sawdust, or the like, 50 which is to be burned. The coal-dust is fed to the apparatus under the action of gravity.

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

1. A spray-producer for massut, coal-dust 55 and the like, consisting of a steam-pipe having a flattened front part and terminating at the outer edge in a slit, a rim surrounding the upper surface of the said front part, a massut-admission pipe extending substantially at 60 right angles to and terminating above this surface and having a dented edge bearing upon the same, substantially as herein set forth.

2. A spray-producer for massut, coal-dust 65 and the like, consisting of a steam-pipe having a flattened front part and terminating at the outer edge in a slit, a rim surrounding the upper surface of the said front part, a massut-admission pipe terminating above this surface 70 and having a dented edge bearing upon the same, a cap provided above the flattened part of the steam-pipe and secured to the said rim upon such flattened part, said massut-pipe extending through the opening in the cap and 75 toward the said surface, substantially as herein set forth.

3. A spray-producer for massut, coal-dust and the like, consisting of a steam-pipe having a flattened front part and terminating at the outer edge in a slit, a tongue interrupting 80 the said slit, a rim surrounding the upper surface of the said front part, and a massut-admission pipe terminating above this surface and having a dented edge bearing upon the 85 same, substantially as herein set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MATIHS PRIGGA.

Witnesses:

JULIUS KRUSE,  
MIROSLAW GARION.