

(No Model.)

A. N. PARKHURST.  
PUMP.

No. 440,497.

Patented Nov. 11, 1890.

Fig. 1.

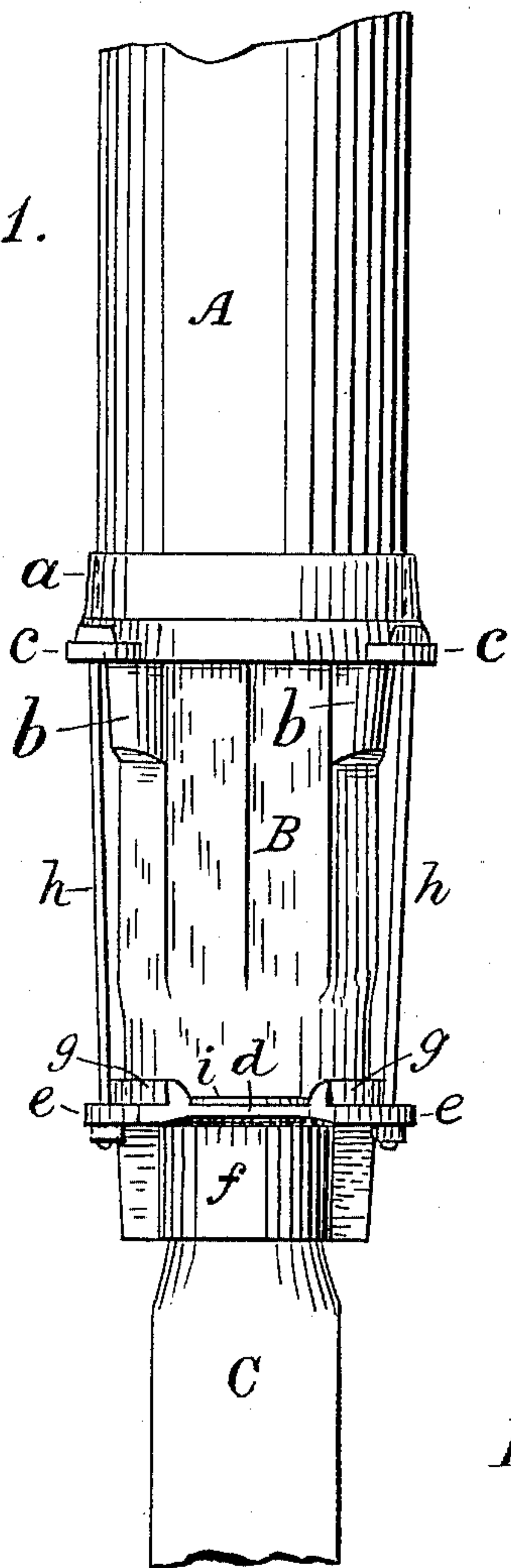


Fig. 2.

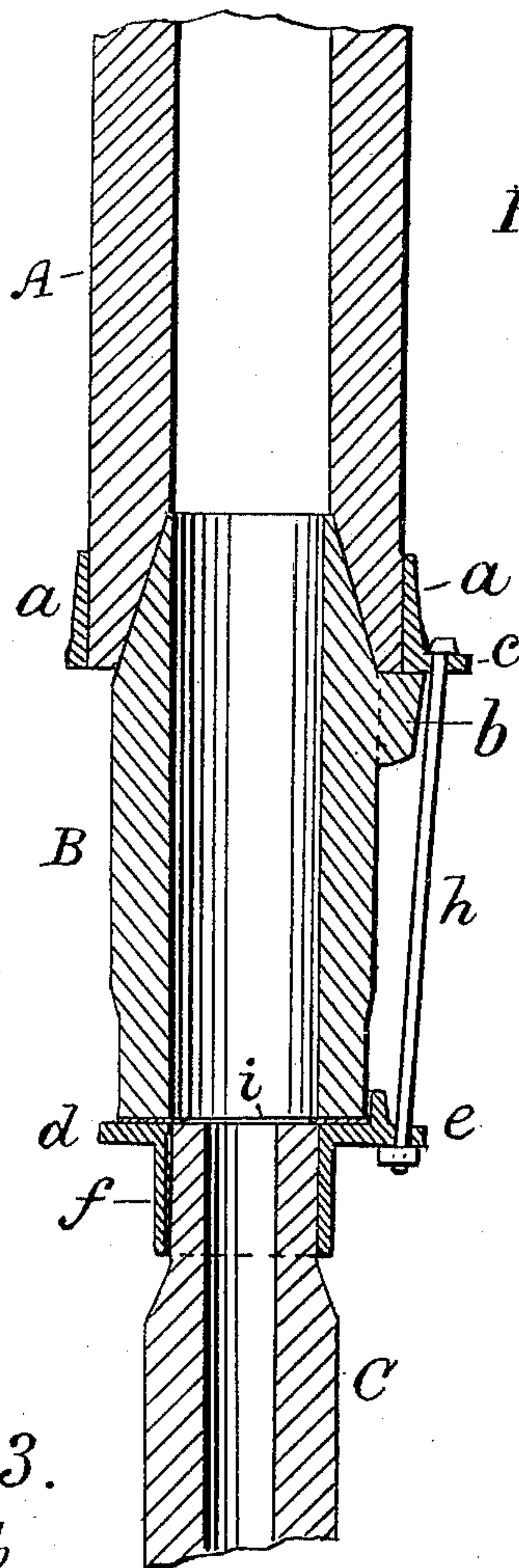
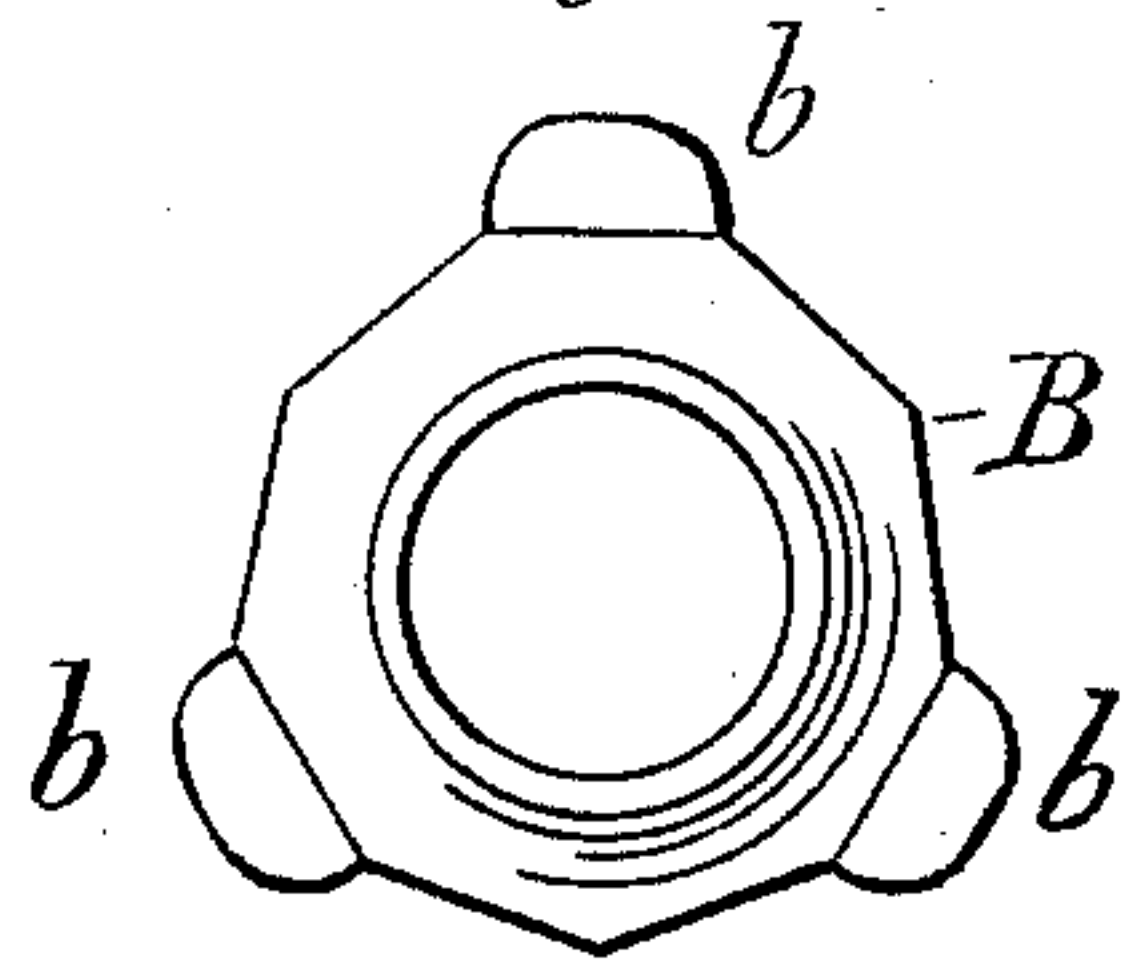


Fig. 3.



Witnesses :

Wm. F. Holton

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Inventor :

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By G. B. Towles

Atty

# UNITED STATES PATENT OFFICE.

ALINUS N. PARKHURST, OF LOGANSPORT, INDIANA.

## PUMP.

SPECIFICATION forming part of Letters Patent No. 440,497, dated November 11, 1890.

Application filed April 25, 1890. Serial No. 349,523. (No model.)

*To all whom it may concern:*

Be it known that I, ALINUS N. PARKHURST, a citizen of the United States, residing at Logansport, in the county of Cass and State of Indiana, have invented certain new and useful Improvements in Pumps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-  
10 pertains to make and use the same.

My invention relates to that kind of pumps which are provided with cylinders of stone-baked clay in which the pump-plungers operate. Such cylinders as heretofore constructed  
15 have been found to be quite liable to be damaged in mounting and placing the pumps; and the object of this invention is to so construct a pump with a cylinder of stone-baked clay that the cylinder shall be well guarded  
20 and be the least liable to damage in mounting and placing the pump.

In the accompanying drawings, Figure 1 represents a side view of a part of a pump with my improvement applied thereto. Fig.  
25 2 is a vertical section of the same. Fig. 3 is a top view of the pump-cylinder.

A designates the stock of the pump, and B the cylinder, which is constructed of stone-baked clay and made tapering at the top,  
30 where it extends a suitable distance into the stock, as shown. The stock A at its lower end is provided with a metal collar *a*, the lower edge of which is somewhat thicker than the upper edge. The collar *a* is provided  
35 with perforated lugs *c* for the purpose hereinafter mentioned.

The cylinder B is provided with several lugs or projections *b*, which extend laterally therefrom and are made solid therewith.

The tubing C is secured to the lower end of  
the cylinder by means of a collar *f*, which has  
a flange *d*, from which extend the perforated  
lugs *e*. The flanged collar is also provided  
with the lips *g*, which surround the lower  
end of the cylinder when the collar is applied  
45 thereto, as shown. The cylinder and the  
collar *f*, with packing *i* placed between them,  
are secured by bolts or rods *h*, which are  
passed through the perforated lugs *c* and *e*  
to the collar *a*. As will be seen, the lugs *b*  
50 of the cylinder, when the latter is driven into  
the pump-stock, are close against the lower  
end of the stock and also bear against the  
collar *a*, so that in case of any shrinkage of  
the wooden stock before the pump is placed  
55 in a well the collar is prevented getting out  
of place. The cylinder thus constructed and  
mounted between the collars is well protected  
from breakage in any of its parts.

I claim—

The combination, with a pump-stock pro-  
vided with a collar *a*, of the baked-clay cyl-  
inder provided with lateral projections *b*, a  
flanged collar *f* at the lower end, and secur-  
ing-rods connected with collars *a* and *f*, the  
65 said cylinder being tapered at the top and  
driven into the pump-stock so that the pro-  
jections *b* are brought against the lower end  
of the stock and collar *a*, substantially as  
herein set forth and described.

In testimony whereof I have affixed my sig-  
nature in presence of two witnesses.

ALINUS N. PARKHURST.

Witnesses:

HENRY PROSCH,  
JAMES AUSPAUGH.