

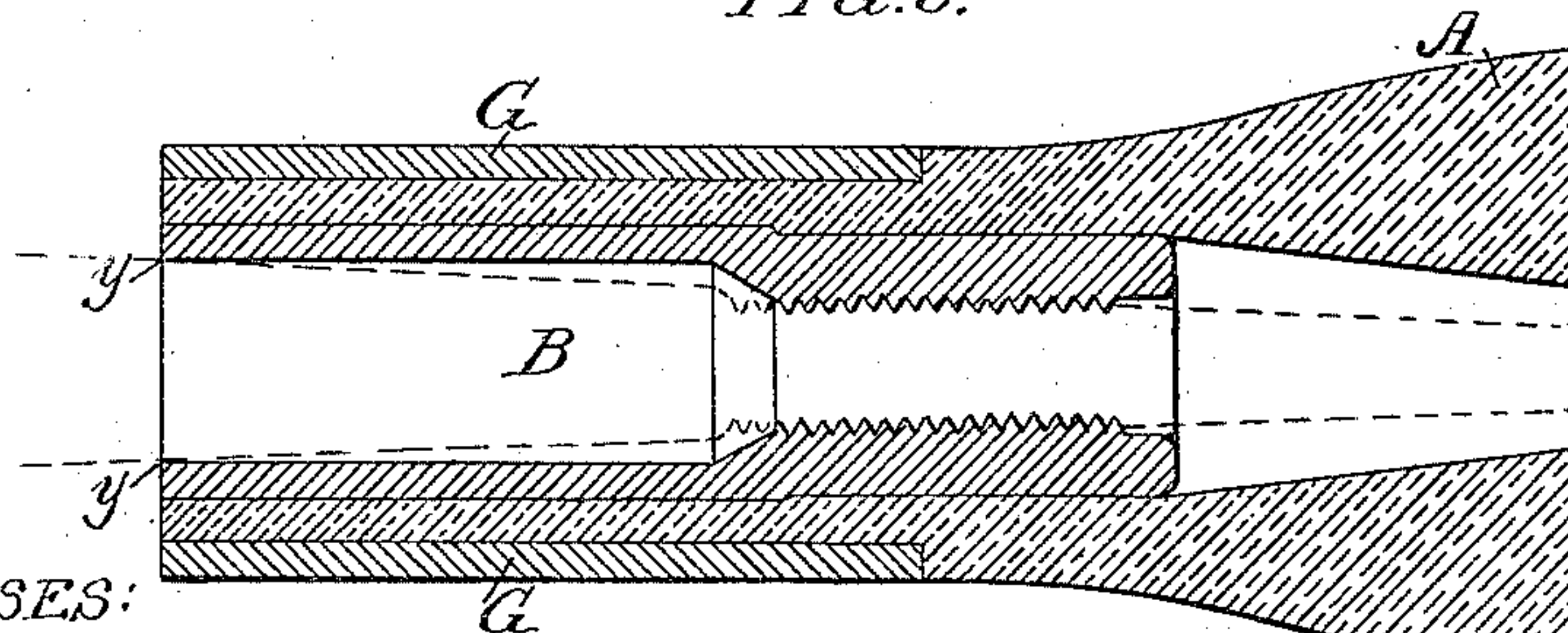
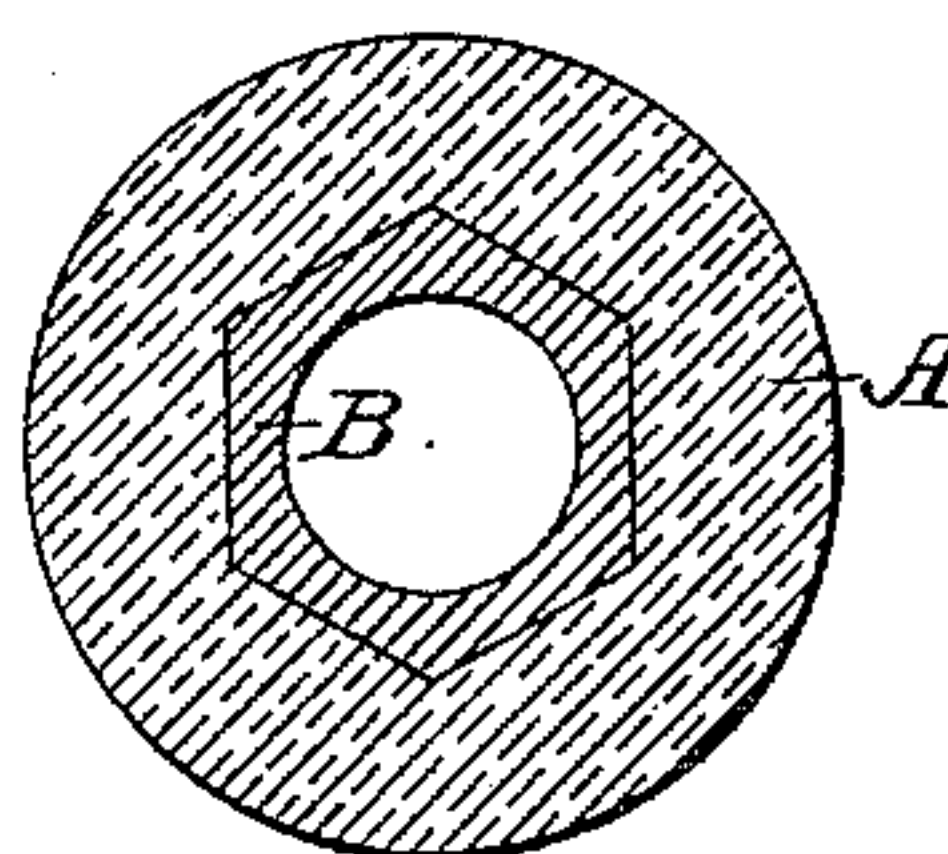
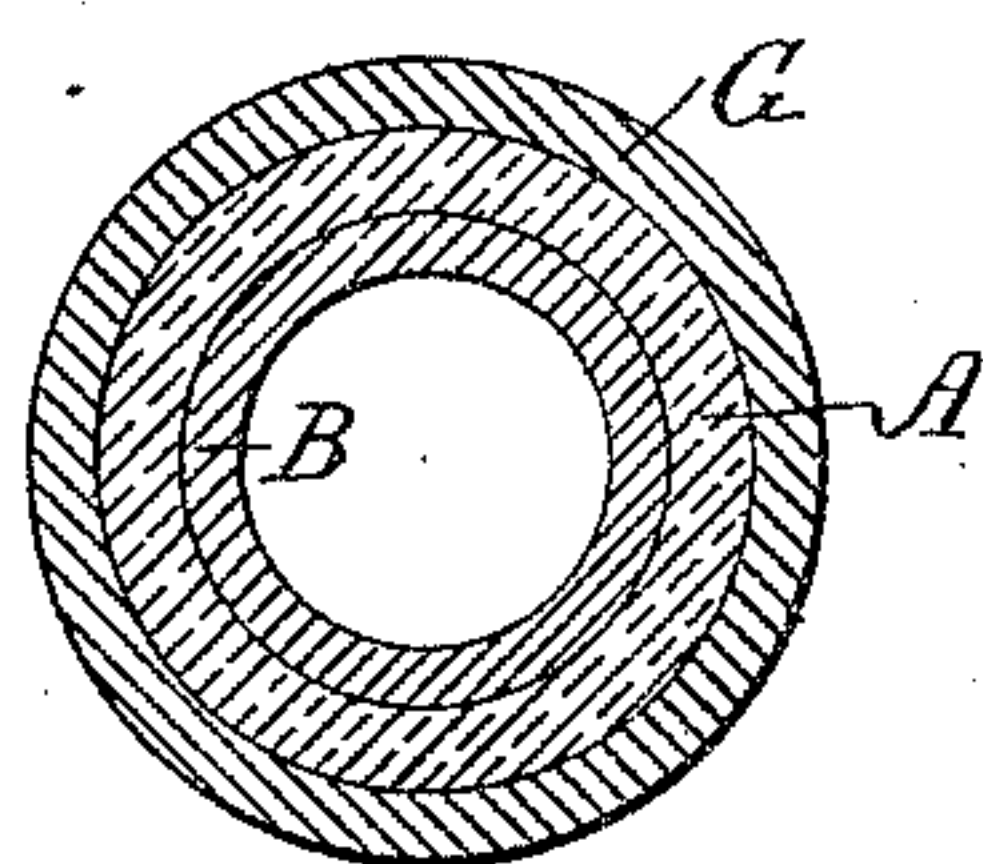
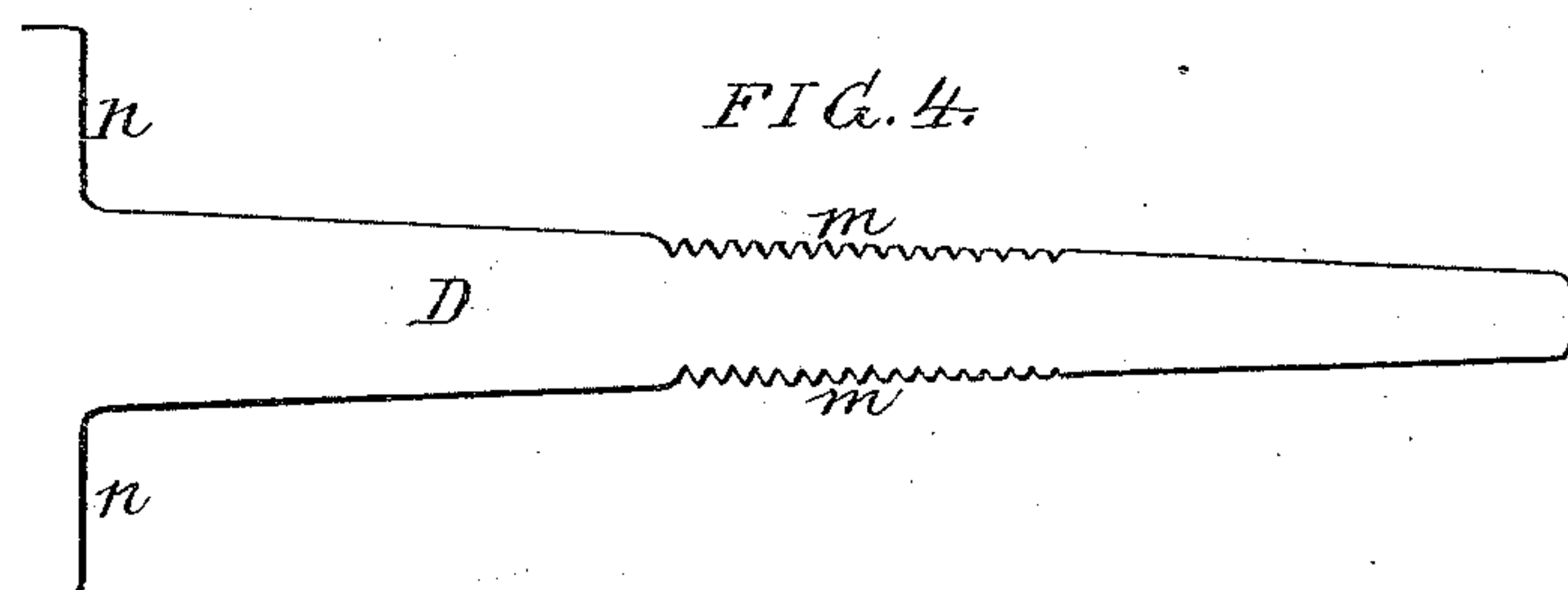
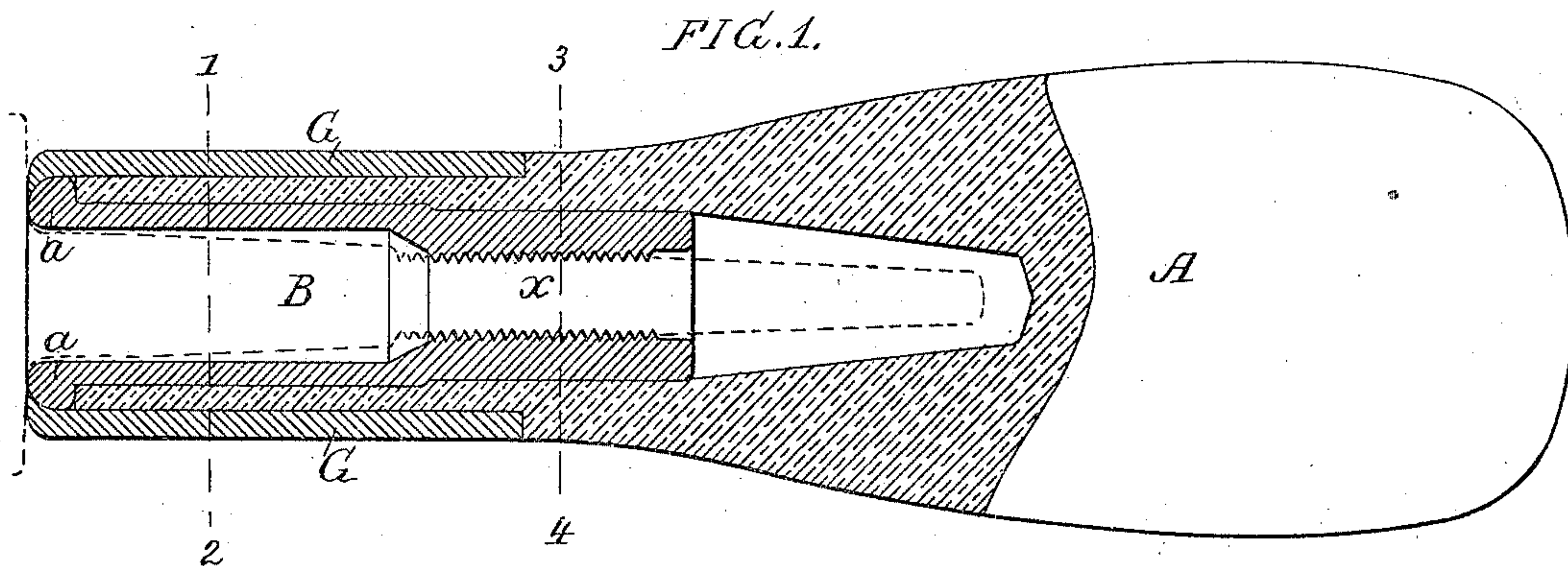
(No Model.)

J. F. FRENCH.

HANDLE FOR FILES AND OTHER TOOLS.

No. 285,988.

Patented Oct. 2, 1883.



WITNESSES:

James F. Tobin
Harry L. Ashenfelter.

INVENTOR:

Josiah F. French
 by his Attorneys
 Howson and Co.

UNITED STATES PATENT OFFICE.

JOSIAH F. FRENCH, OF PHILADELPHIA, PENNSYLVANIA.

HANDLE FOR FILES AND OTHER TOOLS.

SPECIFICATION forming part of Letters Patent No. 285,988, dated October 2, 1883.

Application filed August 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH F. FRENCH, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Handles for Files and other Tools, of which the following is a specification.

My invention consists of a handle constructed for secure attachment to the tang or stem of a file or other tool, substantially as described
10 hereinafter.

In the accompanying drawings, Figure 1 is a view, mainly in section, and drawn to an enlarged scale, of my improved handle for files and other tools; Fig. 2, a transverse section
15 on the line 1 2, Fig. 1; Fig. 3, a transverse section on the line 3 4; Fig. 4, a view of the tang of a file or other tool prepared for attachment to the handle; and Fig. 5, a modification of my invention.

20 Into an orifice in the wooden portion A of the handle is driven a metal tube, B, made, preferably, of cast-iron, annealed, a portion of the tube being made hexagonal in the present instance to prevent it from turning in the orifice, or the tube may have a fin, or may be
25 otherwise constructed externally to prevent it from turning. The tube B is contracted and threaded internally at *x*, so as to become the nut for that portion of the tang D of a file or
30 other tool, which has parallelly-threaded edges *m m*, as shown in Fig. 4, a feature which forms no part of my present invention, and which I do not claim in this application, as it forms the subject of a separate application for a patent, filed by me August 27, 1883, Serial No.
35 104,858. The tube B has at its outer end a rounded flange, *a*, to which extends the wooden portion of the handle, and to the latter is fitted and secured a ferrule, G, the outer end of
40 which is bent over the rounded end of the tube B, as shown in Fig. 1.

In securing the handle to the file or other tool, the threaded tube becomes a nut, and when screwed onto the threaded portion of the
45 tang D causes the outer end of the said tube to bear against the shoulders *n n* of the file or other tool, thereby firmly securing the handle to the same. The application of the handle, however, is not restricted to files and other
50 tools having these abrupt shoulders, for a tapering shank or tang may bear against the inner edge, *y*, of the tube B, as shown in Fig.

5. It is not essential, moreover, in carrying out my invention that there should be a flange, *a*, at the outer end of the tube, or that the end of the ferrule should be bent over the end of the tube, as shown in Fig. 1; but it is essential that there should be a metal bearing for the tang, and that this metal bearing should be on the tubular nut, adapted to the threaded portion of the tang or stem of the tool; and in this respect my invention differs from handles heretofore made, in which a nut embedded in a wooden handle and adapted to the stem of a tool is independent of and
6 apart from that portion of the handle which bears on the tang or shoulder of a tool, the main object of my invention being to so construct a nut and so adapt it to the handle that there shall be no yielding material between
7 the tang of the tool and the nut, the latter, and not the wooden portion of the handle, being the medium for resisting the end-pressure imparted to the handle in screwing it to its place. The overlapping end of the ferrule
7 may bear against the shoulders of the tool; but the result will be the same, the tube being the resisting medium.

In the modification, Fig. 5, the tube B has no flange, but terminates abruptly at the end
8 of the handle, and is independent of the ferrule; but, as in the former case, it affords a bearing for the tang when the handle is screwed tightly onto the same.

I claim as my invention—

1. The combination of the wooden portion A of a tool-handle and its ferrule G with an internally-threaded tube or nut which extends to the end of the handle to form a bearing for the tang, stem, or shoulder of the tool, substantially as set forth.

2. The combination of the wooden portion A of the handle, the internally-threaded tube or nut B, and the ferrule G, the end of which is made to overlap or partly overlap the end
9 of the said tube, substantially as set forth.

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

JOSIAH F. FRENCH.

Witnesses:

HARRY L. ASHENFELTER,
HENRY HOWSON, Jr.