(No Model.)

A. SANDBERG.

VENEERED GUN ROD.

No. 480,746. Patented Aug. 16, 1892.

FIG-1-

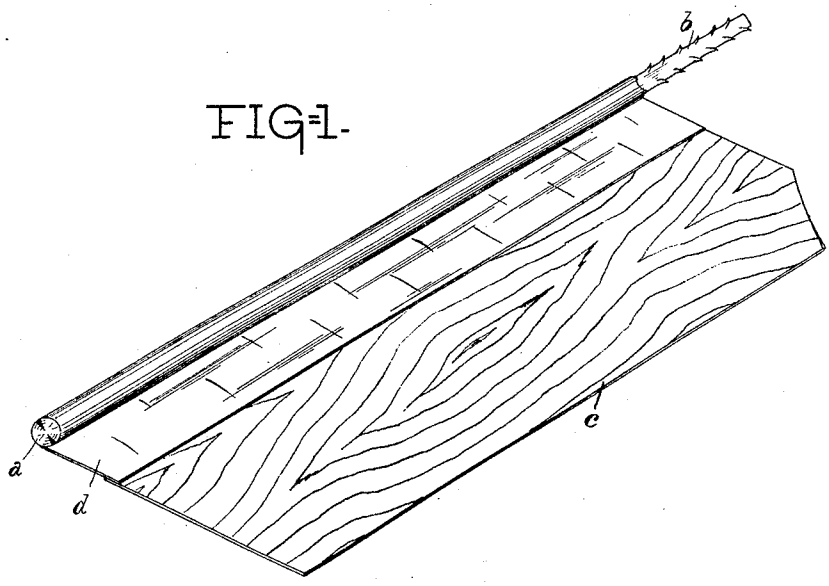


FIG-2-

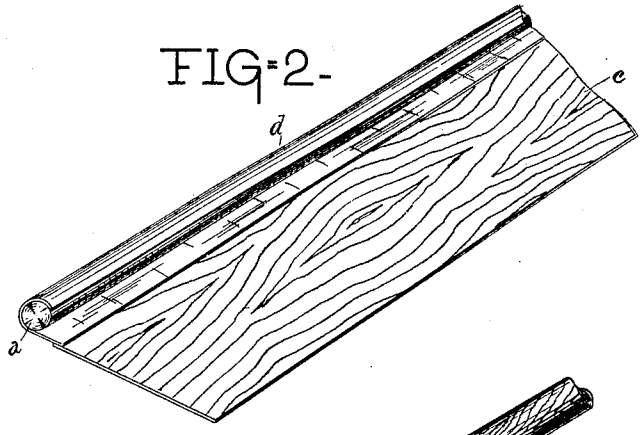
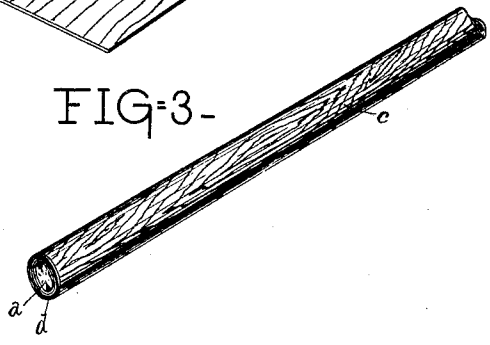


FIG-3-



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALBERT SANDBERG, OF FREYSTADT, GERMANY.

VENEERED GUN-ROD.

SPECIFICATION forming part of Letters Patent No. 480,746, dated August 16, 1892.

Application filed February 5, 1892. Serial No. 420,457. (No model.) Patented in Germany August 22, 1891, in France August 27, 1891, No. 215,764; in Switzerland August 28, 1891, No. 3,938; in England September 5, 1891, No. 15,185; in Belgium September 7, 1891, No. 96,301, and in Italy September 19, 1891, VIII, 283.

To all whom it may concern:

Be it known that I, ALBERT SANDBERG, a subject of the Emperor of Germany, and a resident of Freystadt, in the Empire of Germany, have invented a new and useful Cleaning-Stick for Guns, (for which I have obtained a patent in Germany, bearing date August 22, 1891; in Switzerland, No. 3,938, bearing date August 28, 1891; in France, No. 215,764, bearing date August 27, 1891; in Belgium, No. 96,301, bearing date September 7, 1891; in Great Britain, No. 15,185, bearing date September 5, 1891, and in Italy, No. 283, Vol. VIII, bearing date September 19, 1891,) of which the following is a specification.

The object of this invention is a stick for cleaning the interior of gun-barrels, which is so arranged that it can also be used for guns of small caliber, while any injury to the interior of the barrel during cleaning is obviated.

In the annexed drawings, Figures 1 and 2 are perspective views of the stick in different stages of its manufacture, and Fig. 3 is a perspective view of a part of the stick ready for use.

The improved cleaning-stick essentially consists of a steel rod *a*, covered with a wood veneer *c*. It having been found impossible to place the veneer-wrapper *c* directly on the steel rod *a*, a narrow linen strip *d* is glued to a veneer-plate *c* of suitable size, and both the strip *d* and plate *c* are coated on the inner side with glue. Subsequently the linen strip *d* is wound around the steel rod *a* and then also the veneer *c*, the windings of which lay themselves about the rolled-up linen *d*. Thereby the steel rod *a* and veneer *c* are so intimately united that the finished cleaning-stick can be bent through to the greatest extent without any peeling off or loosening of the veneer *c*. With the steel rod is connected at the projecting end a ribbed or notched brass tube *b*, round which the oakum is wound when cleaning the barrel.

What I claim is—

In a cleaning-stick for guns, the combination of the steel rod *a*, the linen strip *d*, and the veneer *c*, as and for the purpose described.

ALBERT SANDBERG.

Witnesses:
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