June 24, 1930. C. P. SCHLEGEL 1,766,192

GUN SWAB

Filed Nov. 7, 1927

Fig. 1

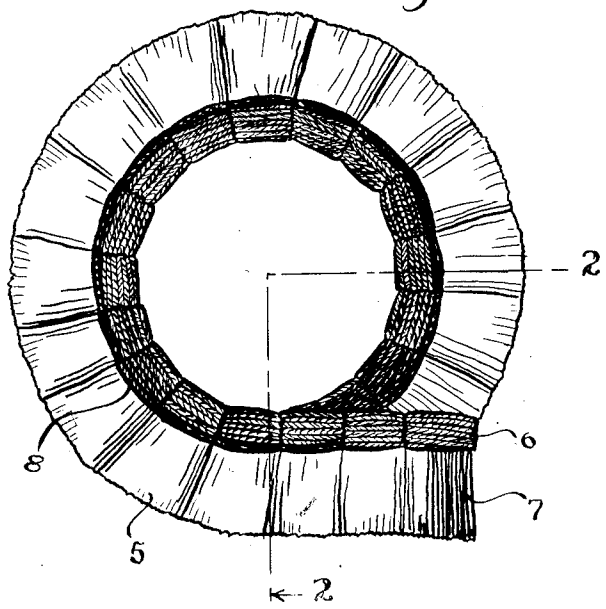
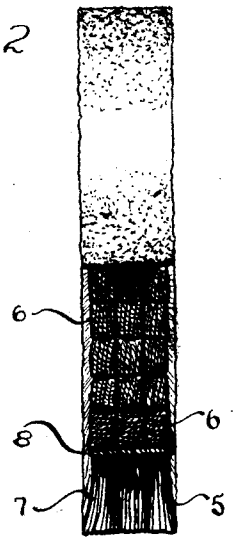


Fig. 2



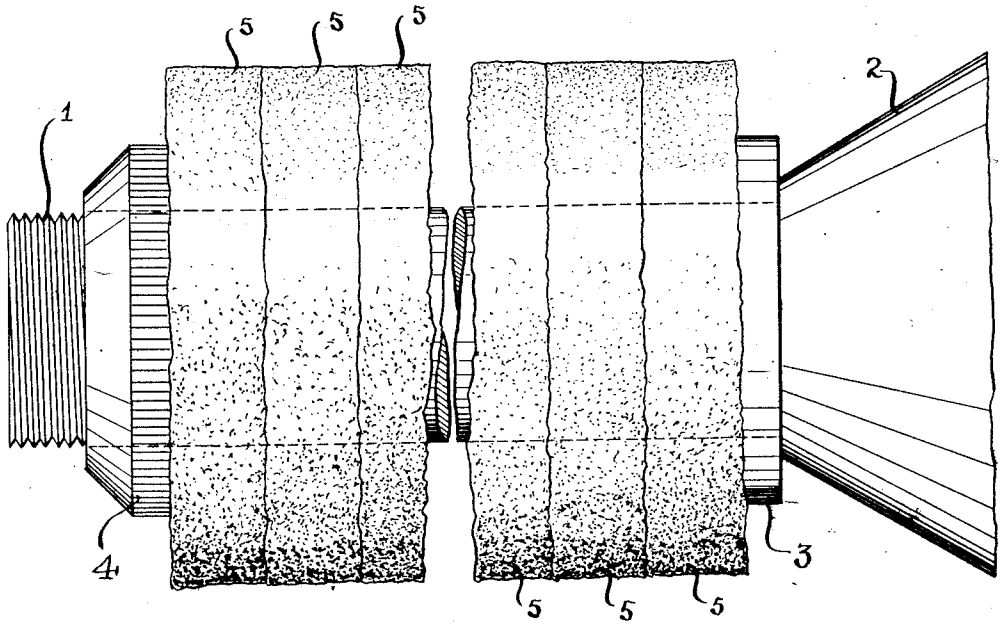


Fig. 3

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UNITED STATES PATENT OFFICE

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GUN SWAB

Application filed November 7, 1927. Serial No. 231,401.

The present invention relates to gun swabs and an object thereof is to provide a gun swab which will be inexpensive to manufacture and durable in use. A further object of the invention is to provide a swab body formed of a plurality of separate rings, each comprising a strip arranged in a helix, the coils of which are united. Still another object of the invention is to provide for constructing the swab body from strip material such as fringe where the material has free strands along one side.

To these and other ends, the invention consists of certain parts and combinations of parts all of which will be hereinafter described: the novel features being pointed out in the appended claims.

In the drawings:

Fig. 1 is a side view of one of the swab body rings showing an end portion of the strip disconnected from the main portion of the ring;

Fig. 2 is an edge view of one of the rings partially in section;

Fig. 3 is a fragmentary side view of the swab.

In the illustrated embodiment of the invention, 1 indicates the stem of the swab which has at one end, as is customary, a hollow cone 2 for engagement with the time fuse of a projectile which may be in the bore of a gun. A shoulder 3 is arranged at the inner end of the cone 2 while a nut or collar 4 is arranged on the stem to form a shoulder in spaced relation to the shoulder 3. Between these shoulders 3 and 4 is arranged the swab body. This swab body, in this instance, is formed of a plurality of separate rings 5, this formation being desirable as it permits the ready fitting of the body to the stem 1, it being apparent that if the body were in one piece, the fitting or removal of the same from the stem would be difficult, due to the length of the body, especially if the central opening of the body has a diameter closely approximating the diameter of the stem as it is desirable to prevent a looseness of the body on the stem.

Each ring is formed from a strip of material comprising, in this instance, a closely woven inner portion 6 from which extends free strands 7 providing, in effect, a fringe. This strip of material is wound into a helix to provide a ring in which the inner portion 6 lies at the inner periphery of the ring while the strands 7 project substantially radially from the ring in close assemblage. The coils of the ring are then united by stitching 8 passed through all of the coils, preferably at the inner portion 6, the stitching holding the coils firmly together and permitting the ring to be readily slipped on the stem 1.

It will thus be seen that there has been provided a body for a gun swab formed of a plurality of separate rings. Each ring is formed from a strip of material such as a fringe, wound in the form of a helix with the coils of the helix united. This arrangement makes it possible to form a gun swab in an economical manner, and provides a construction which may be slipped readily on the stem of the gun swab or readily removed from said stem.

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

1. A gun swab comprising a stem, and a swab body formed of a plurality of separate abutting concentric rings fitted about the stem, each ring being formed from a strip of material wound in a helix with its coils united independently of the other rings.

2. A ring for forming gun swab bodies comprising a woven fringe having a closely woven portion wound in helix form to position the closely woven portion at the inner periphery of the ring, the coils of the helix being stitched together through said closely woven inner portion.

3. A ring for forming gun swab bodies comprising a woven fringe having a closely woven portion and wound in helix form to position the closely woven portion at the inner periphery of the ring, the inner closely woven portion of the helix being secured together.

4. A ring for forming gun swab bodies having an inner annular closely woven portion and an outer free fringe portion.

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