

E. L. UHL.
MUSHROOMING BULLET.
APPLICATION FILED FEB. 8, 1913.

1,062,865.

Patented May 27, 1913.

Fig. 1.



Fig. 3.

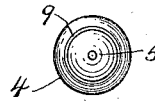


Fig. 4.

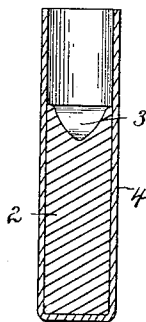
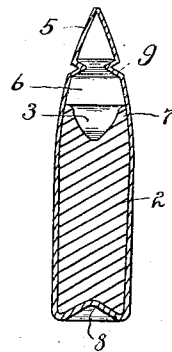


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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MUSHROOMING BULLET.

1,062,865.

Specification of Letters Patent.

Patented May 27, 1913.

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To all whom it may concern:

Be it known that I, EDWARD L. UHL, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Mushrooming Bullets; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application, and represent, in—

Figure 1 a view in side elevation of a mushrooming-bullet constructed in accordance with my invention. Fig. 2 a view thereof in central longitudinal section. Fig. 3 an end view thereof. Fig. 4 a view in central longitudinal section of the slug and jacket assembled preparatory to being closed together.

My invention relates to an improvement in that class of mushrooming bullets known as full-jacketed bullets for the reason that as initially constructed the entire soft-metal slug of the bullet is inclosed within the jacket, the object being to construct a bullet of this description so that its pointed jacket will readily give way and permit the bullet to symmetrically mushroom when it strikes the object fired at.

With these ends in view my invention consists in a full-jacketed mushrooming bullet in which the tapering point of the jacket is formed with a circumferential groove to facilitate mushrooming, the said groove being located beyond the outer end of the soft-metal slug of the bullet and separated from the said slug by a displacement space.

My invention further consists in a bullet having certain details of construction as will be hereinafter described and pointed out in the claims.

In carrying out my invention as herein shown, I employ a cylindrical slug 2 of lead or equivalent soft-metal, having a concentric cavity 3 in its forward end. I do not, however, limit myself to a cavity of any particular shape, nor indeed to any cavity, though preferably the slug will have a cavity of some shape or other formed in its forward end. This slug is inserted into a drawn sheet-metal jacket 4 which, as shown, and preferably, is longer than the said slug. The said slug 2 and jacket 4 when assembled

as shown in Fig. 4, are subjected to pressure, whereby the forward end of the jacket 4 is contracted to form a curved conical point 5 inclosing an empty displacement chamber 6 located entirely in front of the forward end of the slug 2 and the cavity 3 thereof. As shown, the forward end of the slug 2 is slightly reduced in diameter as at 7, but this is not essential to my invention.

During the assembling operation, a conical cavity 8 is formed in the butt-end of the bullet to assist in crowding the soft-metal slug 2 to a bearing in the jacket 4 at both ends thereof. The projecting point 5 of the jacket is formed with an inwardly extending circumferential groove or cannellure 9 which may be of any desired cross-sectional form. This cannellure 9 forms a breaking-down zone, as it were, for the otherwise strong hollow conical point 5 of the bullet, so that when the bullet impinges upon the object fired at, the point 5 will crush in the direction of the longitudinal axis of the bullet and permit the same to mushroom in a measurably symmetrical way. The cannellure 9 is suspended, as it were, in the displacement-chamber 6 in such a position that there will be some free space between it and the outer end of the slug to provide a displacement space for the cannellure and thus facilitate the breaking down of the jacket.

I claim:—

1. In a jacketed bullet, the combination with a soft-metal slug, of a jacket applied thereto and extending beyond the outer end thereof to provide a tapering displacement-chamber and formed with a circumferential groove or cannellure separated from the outer end of the slug by a portion of the said displacement-chamber.

2. In a jacketed bullet, the combination with a soft metal slug, of a jacket applied thereto and extending beyond the outer end thereof to provide a tapering displacement-chamber and formed with a circumferential groove or cannellure located midway the length of the said chamber with a portion of the same on either side of it, whereby the breaking down of the tapering hollow portion of the jacket and the mushrooming of the bullet is facilitated.

3. In a jacketed bullet, the combination with a soft-metal slug having a concentric cavity in its outer end, of a jacket applied to the slug to provide a tapering displacement-

ment-chamber and formed with a circumferential groove or cannellure separated from the outer end of the slug by a portion of the said displacement-chamber, whereby the
5 breaking down of the tapering portion of the jacket and the mushrooming of the bullet is facilitated.

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

EDWARD L. UHL.

Witnesses:

THOMAS C. JOHNSON,
FRANK A. PAUL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
