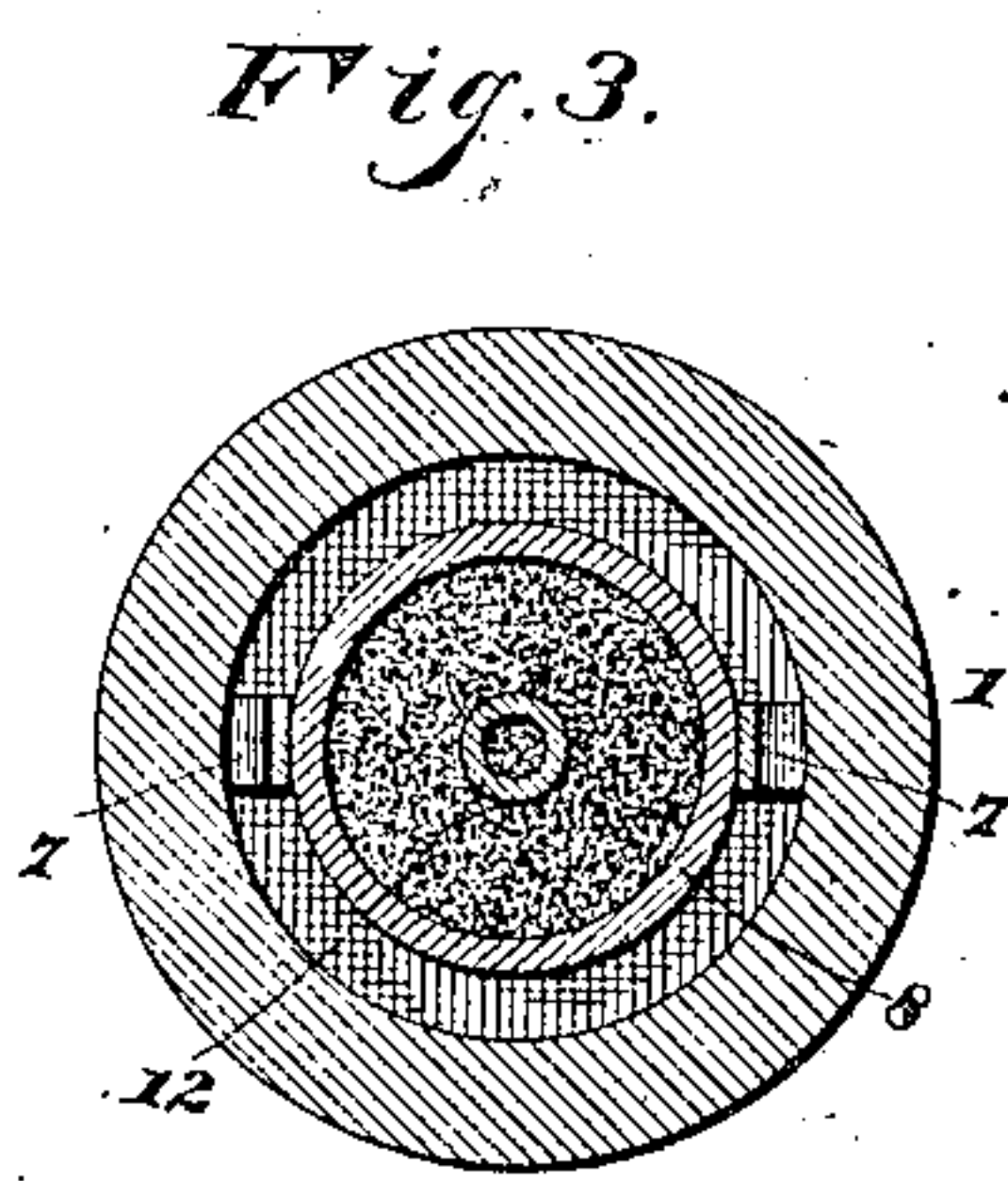
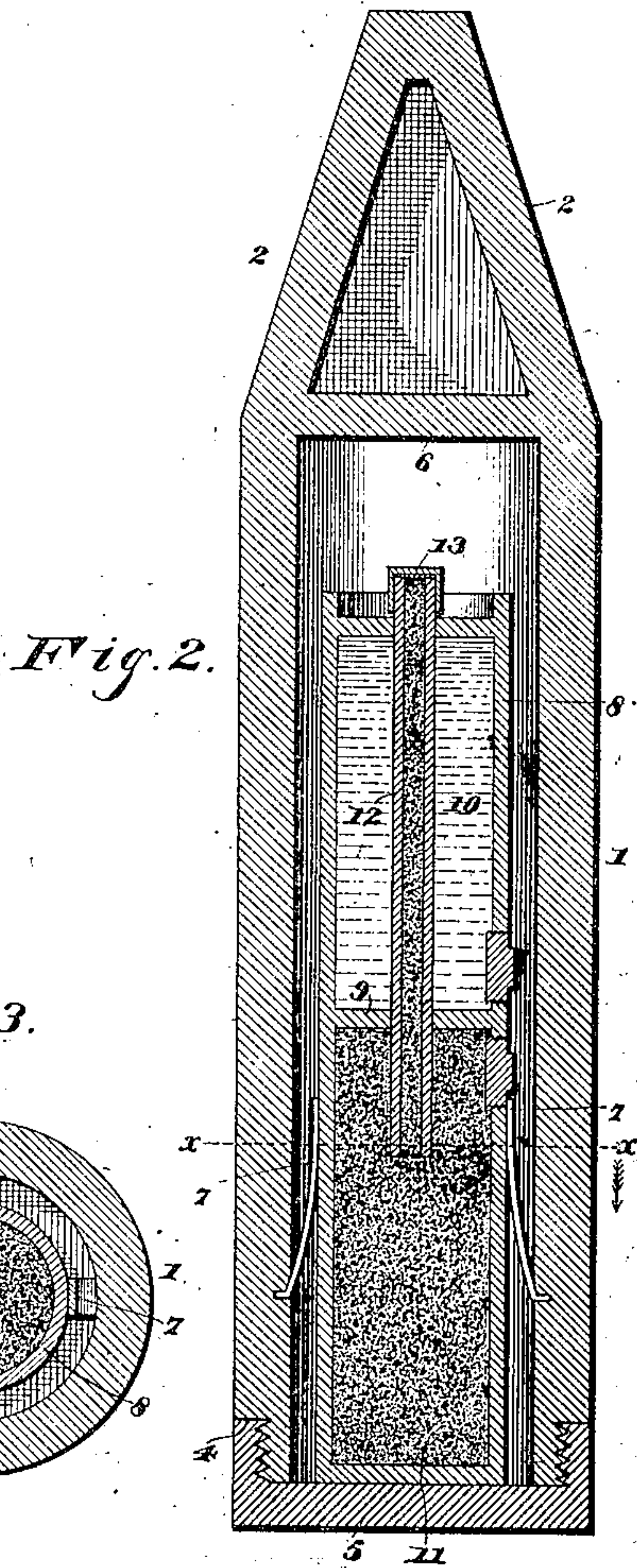
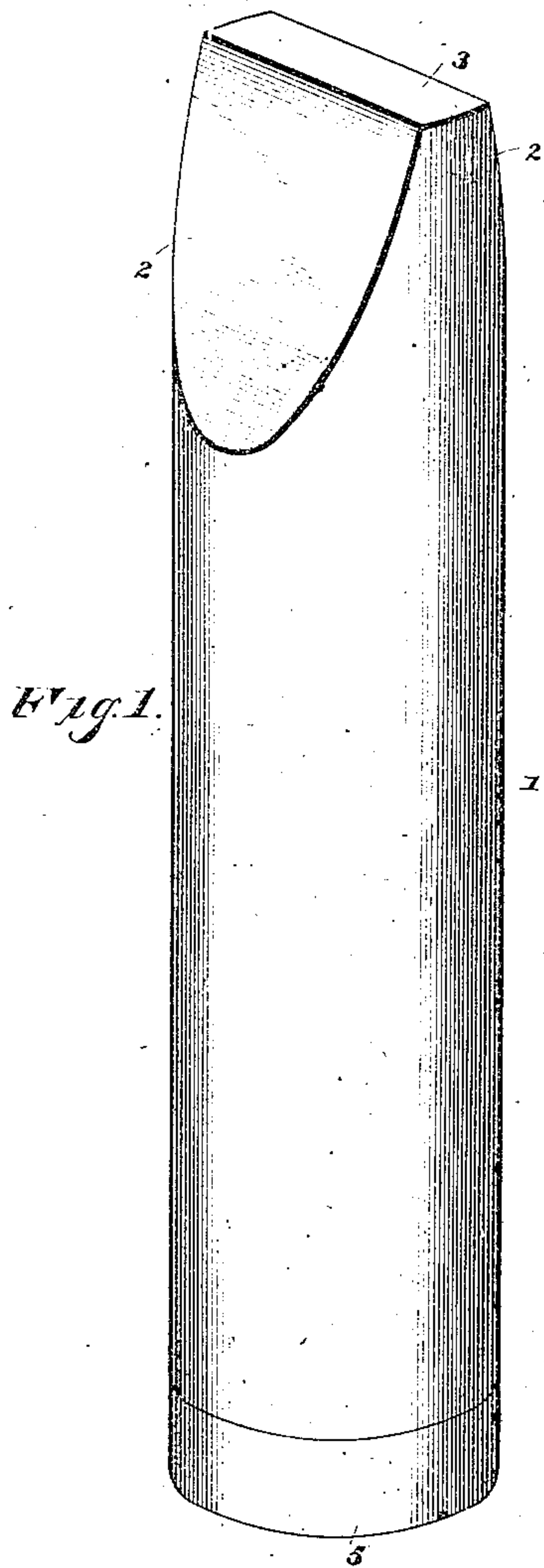


(No Model.)

J. J. MOORE.
EXPLOSIVE PROJECTILE FOR ORDNANCE.

No. 446,975.

Patented Feb. 24, 1891.



Witnesses:

J. M. Withers.

Wm. Baggett

By his Attorneys,

C. A. Snow & Co.

Inventor,
James J. Moore,

UNITED STATES PATENT OFFICE.

JAMES JACKSON MOORE, OF MERRYVILLE, LOUISIANA.

EXPLOSIVE PROJECTILE FOR ORDNANCE.

SPECIFICATION forming part of Letters Patent No. 446,975, dated February 24, 1891.

Application filed April 10 1890. Serial No. 347,391. (No model.)

To all whom it may concern:

Be it known that I, JAMES JACKSON MOORE, a citizen of the United States, residing at Merryville, in the parish of Calcasieu and State of Louisiana, have invented a new and useful Explosive Projectile for Ordnance, of which the following is a specification.

This invention relates to an improvement in explosive projectiles for ordnance and is an improvement on the explosive shell for which Letters Patent of the United States No. 412,856 were granted to myself on the 15th day of October, 1889.

The present invention consists in the improved construction, arrangement, and combination of parts composing the said device, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a shell embodying my improvements. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view taken on the line *x x* in Fig. 2.

Like numerals of reference indicate like parts in all the figures.

The projectile, which is designated by 1, is approximately cylindrical in shape and is provided at its front end with beveled or tapering sides 2 2, forming a blunt edge 3. The projectile is hollow and is provided at its butt-end with a shoulder 4, which is exteriorly screw-threaded and adapted to receive a cap 5, which when in place is flush with the exterior surface of the shell. The latter is provided near its front end with a transverse partition 6, and near its butt-end it is provided on diametrically-opposite sides with curved springs 7, which project a suitable distance into the bore of the shell and which serve to retain in position the cartridge 8. The latter is of slightly less diameter than the bore of the shell, and it consists of a tubular shell or cylinder constructed of any suitable material and provided with a transverse partition 9, whereby it is subdivided into two separate chambers designated respectively by 10 and 11. The upper or front chamber 10 serves as a receptacle for hydrocarbon oil or other suitable inflammable liquid, and in the rear chamber 11 of the cartridge explosive substance of any suitable character is stored. A nipple 12 extends from the rear

chamber 11 of the cartridge through the front chamber 10 of the latter and slightly beyond its front wall, and upon said nipple a percussion-cap 13 is placed.

In operation my improved projectile may be fired from ordnance of any suitable construction. When it is fired, the initial shock imparted to the projectile will cause the cartridge to move rearward in the bore of the latter and to remain in contact with the cap 5 during the flight of the projectile. When the latter strikes an obstruction, it will not only penetrate such obstruction, but at the same time the cartridge will be forced in a forward direction and the nipple 12, carrying the percussion-cap 13, will strike the partition or diaphragm 6, causing the cartridge and the shell to explode. At the same time, owing to the force of the explosion, the charge of inflammable material contained in the front chamber of the cartridge will be scattered over the obstruction encountered by the projectile and saturating such obstruction will become ignited and greatly increase the destructive qualities of the projectile. In the event of the latter striking the ground it will, owing to its peculiar formation with the tapering sides 2 and the blunt edge 3, be less liable to glance than projectiles of ordinary construction and will be exploded with more certainty and with greater effect. The sides of the shell 8 are to be provided with removable plugs, which may be screw-threaded or otherwise suitably secured in position and by means of which access may be had to the separate chambers of said cartridge for the purpose of filling or loading the same.

What I claim is—

1. The combination, with a cylindrical tubular shell having a transverse partition or diaphragm and provided at its butt-end with a removable screw-threaded cap, of the interiorly-located holding-springs and an explosive cartridge mounted in said shell, held by the said springs, and having a transverse partition subdividing it into separate chambers or compartments, substantially as set forth.

2. As an improvement in explosive projectiles for ordnance, the combination, with a tubular shell having a transverse partition or diaphragm, a removable cap, and interior holding-springs, of a cartridge consisting of

a tubular shell having a transverse partition,
 inflammable liquid and explosive material
 stored, respectively, in the front and rear com-
 partments of the cartridge, a tubular nipple
 5 extending from the rear compartment through
 and beyond the front compartment of said
 cartridge, and a percussion-cap upon the pro-
 jecting front end of said nipple, substantially
 as set forth.
 10 3. The combination, with an explosive shell
 for ordnance, of an explosive cartridge
 mounted in said shell and having front and
 rear compartments containing, respectively,
 inflammable liquid and explosive material,
 15 and a nipple extending through the chamber
 containing the inflammable liquid and hav-

ing a percussion-cap, substantially as and for
 the purpose set forth.

4. The cartridge for explosive projectiles,
 consisting of a tubular shell having a trans- 20
 verse partition, a nipple extending through
 the front chamber, and plugs in the sides of
 the said shell, through which access may be
 had to the compartment of the latter, sub-
 stantially as and for the purpose set forth. 25

In testimony that I claim the foregoing as
 my own I have hereto affixed my signature in
 presence of two witnesses.

JAMES JACKSON MOORE.

Witnesses:

JOSEPH S. COCHRAN,
 BRINKLEY L. DICKERSON.