

UNITED STATES PATENT OFFICE.

JOHN D. SCHOOLEY AND WILLIAM C. SCHOOLEY, OF BRADDOCK'S FIELD,
PENNSYLVANIA.

IMPROVEMENT IN DETONATING COMPOUNDS.

Specification forming part of Letters Patent No. 179,067, dated June 20, 1876; application filed
January 11, 1876.

To all whom it may concern:

Be it known that we, JOHN D. SCHOOLEY and WILLIAM C. SCHOOLEY, of Braddock's Field, Allegheny county, Pennsylvania, have invented an Improved Compound for Detonating-Caps; and we do hereby declare the following to be a full and correct description of the same.

The object of our invention is to produce a composition for detonating purposes which may be used as an explosive compound in torpedoes, especially railroad-torpedoes for signals, and all other explosive caps using a fulminate exploded by friction; and it consists in compounding three parts of the chlorate of potash, and one part sulphur or lac-sulphur, and one part broken glass. These ingredients are inclosed in a case of any suitable material, preferably of glass, as described in our patent for railroad detonating-torpedo, granted September 29, 1874; but it may be of any substance suitable for such purposes.

The broken glass, from its sharp irregularities, is adapted to ignite the combustible in-

gredients of our compound and insure the explosion, while at the same time the glass appears to increase the explosive violence of the compound.

We do not confine ourselves to the arbitrary proportions herein given, as they may be varied to meet the conditions without departing from the substance of our invention.

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

The composition for a detonating-powder, substantially as herein described, composed of chlorate of potash, three parts; sulphur, one part; and broken glass, one part.

The above specification of our said invention signed and witnessed at Braddockborough this 22d day of September, A. D. 1874.

JOHN D. SCHOOLEY.

WILLIAM C. SCHOOLEY.

Witnesses:

T. W. SHARP,

J. MCK. SNOODGRASS.