

United States Patent Office.

CHARLES H. F. THIEME, OF NORTH VERNON, INDIANA.

Letters Patent No. 81,036, dated August 11, 1868.

IMPROVED PRIMING FOR NEEDLE-GUNS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES H. F. THIEME, of North Vernon, in the county of Jennings, and State of Indiana, have invented a new and useful Priming for Needle-Guns; and I do hereby declare the following to be a full and exact description thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand and use the same.

This composition is intended to subserve the purpose of the fulminate, which, by the penetration of the pointed instrument, is made to ignite the charge in the needle-gun. Sulphur, cyanide or fulminate of mercury is commonly used as the base of such compositions, but these ingredients are objectionable by reason of the fact that they are liable to accidental ignition from concussion, and become deteriorated, if not immediately destroyed, by evaporative action to which they are subject.

I substitute, for the imperfect bases heretofore employed, the hyposulphite of any metal. In other respects, my ingredients and mode of preparation are not different from such as are commonly employed and practised. The hyposulphite crystallizes in about three weeks after the composition has been made. The composition will then invariably explode when penetrated, will preserve its good quality, and may be subjected to concussion without igniting, thus obviating many dangerous explosions which result from the use of such compositions as heretofore prepared.

In preparing the priming according to my invention, I take one part of hyposulphite of silver, lead, or other metal; four parts of sulphuretted antimony; ten parts of chloride of potash; three parts of sulphur; one-fourth part of white sugar.

I do not confine myself strictly to the above proportions. The ingredients are either mixed together and dampened, or mixed in water, after which the composition is ready for use.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

An explosive or igniting-composition, having hyposulphite of any metal as a base, substantially as set forth.

CHARLES H. F. THIEME.

Witnesses:

CHAS. D. SMITH,
JACOB F. HENRY.