

No. 789,943.

Patented May 16, 1905.

UNITED STATES PATENT OFFICE.

ALFRED E. STANLEY, OF ELLINWOOD, KANSAS, ASSIGNOR OF ONE-HALF
TO CLARENCE E. ATKINSON, OF ELLINWOOD, KANSAS.

EXPLOSIVE COMPOUND.

SPECIFICATION forming part of Letters Patent No. 789,943, dated May 16, 1905.

Application filed February 24, 1905. Serial No. 247,138.

To all whom it may concern:

Be it known that I, ALFRED E. STANLEY, a citizen of the United States, residing at Ellinwood, in the county of Barton and State of Kansas, have invented new and useful Improvements in Explosive Compounds, of which the following is a specification.

This invention is an explosive compound; and its object is to provide a powder characterized by a smokeless quality and by a large explosive force and well adapted for use as a gunpowder and also for blasting.

The compound consists of the following ingredients: cornmeal, sulfur, glycerin, alcohol, saltpeter, and chlorate of potash, and the manner of preparing it is as follows: Sixteen ounces of cornmeal are cooked for about five minutes in one pint of boiling water, and being then removed from the fire there are added one ounce of sulfur, one ounce of glycerin, one ounce of alcohol, one ounce of saltpeter, and sixteen ounces of chlorate of potash, all

of which are thoroughly stirred to make an intimate mixture. This mixture is then allowed to dry to a sufficient extent, so that it will grain when forced through a screen for that purpose. The powder so formed will be found more powerful than ordinary gunpowder and safer to handle than other high explosives of the nitro class.

What I claim as new, and desire to secure by Letters Patent, is—

An explosive compound comprising a mixture of cornmeal, sulfur, glycerin, alcohol, saltpeter, and chlorate of potash, in substantially the proportions specified.

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

ALFRED E. STANLEY.

Witnesses:

CLARENCE E. ATKINSON,
NICHOLAS SPRINKER.