

# UNITED STATES PATENT OFFICE.

HARVEY D. FARRIS AND AUSTIN C. JEX, OF WETASKIWIN, ALBERTA, CANADA

## BLASTING-POWDER.

No. 891,334.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed December 10, 1906. Serial No. 347,216.

*To all whom it may concern:*

Be it known that we, HARVEY D. FARRIS and AUSTIN C. JEX, subjects of the King of Great Britain, residing at Wetaskiwin, Alberta Canada, have invented certain new and useful Improvements in Blasting-Powder, of which the following is a specification.

Our invention relates to an improvement in blasting powder and its superiority over other blasting powders resides in the fact that it is thoroughly safe to handle as it is impossible to explode by concussion while in a magazine or in large quantities.

A further object is to provide a powder which will burn without damage, being almost smokeless when fired in a mine.

The following are the ingredients used for blasting rock or any substance requiring high explosives, to wit: chlorate of potash 66 lbs., wheat flour 33 lbs., picric acid 1 ounce. These ingredients are thoroughly mixed with 1 gallon of water so as to make a mechanical mixture and this product when in a damp state is granulated and dried.

A coating consisting of the following ingredients may be used, namely nitric acid 1½ ounces, muriatic acid 1 ounce, coal oil 1 gallon.

The foregoing is used to put a hard finish on the explosive and also adds to its effectiveness, beside keeping out any dampness.

The powder is inserted in the object to be exploded in the same manner as any other blasting powder and can then be exploded by a fuse or a cap and electric spark.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:—

1. An explosive consisting of granules of an intimate dry mixture of chlorate of potash, wheat flour, and picric acid, all in the proportions substantially as set forth.

2. An explosive consisting of granules of an intimate dry mixture of chlorate of potash, wheat flour and picric acid, said granules having a coating thereon consisting of nitric acid, muriatic acid and coal oil, all in the proportions substantially as set forth.

In testimony whereof, we hereunto affix our signatures in presence of two witnesses.

HARVEY D. FARRIS.  
AUSTIN C. JEX.

Witnesses:

J. K. BURGESS,  
ALF. W. JAMMD.