

UNITED STATES PATENT OFFICE.

FRANKLIN L. CHAMBERLIN, OF CLEVELAND, OHIO.

METHOD OF SHIPPING AND STORING EXPLOSIVES.

No. 896,622.

Specification of Letters Patent.

Patented Aug. 18, 1908.

Application filed January 20, 1906. Serial No. 297,053.

To all whom it may concern:

Be it known that I, FRANKLIN L. CHAMBERLIN, a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Methods of Shipping and Storing Explosives; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improved method of shipping and storing explosives, the object of the invention being to provide an improved method of this character, which will permit black powder, nitro-powder, etc., to be packed, shipped and handled without danger and without injury to the explosive.

With this object in view, the invention consists in certain novel steps of a method for the purpose stated, as hereinafter set forth and pointed out in the claims.

In carrying my improved method into effect, I immerse the explosive powder in a liquid in which the powder is insoluble, such as oil, the latter having contact with the powder grains and acting as an air seal or envelop therefor and thus constituting a preservative of the powder as well as preventing explosion thereof from shock or changes of temperature.

My improved process permits explosive powder to be readily handled, stored and shipped without danger of accidental explosion, and also prevents deterioration of the powder.

As the explosive powder is insoluble in the

oil in which it is immersed, it can be readily separated from such oil by draining or in any other suitable manner when it is desired to use the explosive as such.

Various oils may be employed in carrying my improved method into effect—in fact any oil of 300° fire test—and in which the powder is insoluble can be used. Good results can be had with the use of kerosene or even heavier oil, such as linseed oil.

Experiment has shown that the powder is not soluble in hydro-carbon oil, such as "White water" burning oil, 300° fire test, and good results have been secured with the use of such oil.

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

1. A method of rendering explosives safe to ship, store and handle, consisting in submerging the explosive bodily in oil in which it is insoluble and maintaining it submerged below the surface of the oil.

2. A method of rendering explosives safe to ship, store and handle, consisting in submerging the explosive bodily in hydro-carbon oil in which the explosive is insoluble and maintaining it submerged below the surface of the hydrocarbon oil.

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

FRANKLIN L. CHAMBERLIN.

Witnesses:

FRANK B. BROWN,
AXTELL E. PETERSON.