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for Guncotton  
1865

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A.D. 1865, 20th APRIL. N° 1102.

## Preparing Gun Cotton.

LETTERS PATENT to Frederick Augustus Abel, of the Royal Arsenal, Woolwich, in the County of Kent, for the Invention of "IMPROVEMENTS IN THE PREPARATION AND TREATMENT OF GUN COTTON."

Sealed the 13th October 1865, and dated the 20th April 1865.

PROVISIONAL SPECIFICATION left by the said Frederick Augustus Abel at the Office of the Commissioners of Patents, with his Petition, on the 20th April 1865.

I, FREDERICK AUGUSTUS ABEL, of the Royal Arsenal, Woolwich, in the  
5 County of Kent, do hereby declare the nature of the said Invention for  
"IMPROVEMENTS IN THE PREPARATION AND TREATMENT OF GUN COTTON," to be  
as follows:—

My Invention has reference to the explosive compound known as gun  
cotton. Such compound has heretofore been employed either in a loose,  
10 fibrous, or woolly state, or of late it has been spun into the form of rovings,  
yarn, or thread, and has then been formed into cartridges, either by winding,  
braiding, or weaving.

Now my Invention has for its object to assimilate the physical condition of  
gun cotton as nearly as possible to that of gunpowder, by mechanically con-  
15 verting it into a solid homogeneous state, and imparting to it either a granular  
or other suitable form that will present the exact amount of surface and  
compactness required for obtaining a certain rapidity or intensity of combustion.

The method of treating the gun cotton which I prefer to employ in carrying

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I, FREDERICK AUGUSTUS ABEL, of the Royal Arsenal, Woolwich, in the 5 County of Kent, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN THE PREPARATION AND TREATMENT OF GUN COTTON," to be as follows:—

My Invention has reference to the explosive compound known as gun cotton. Such compound has heretofore been employed either in a loose, 10 fibrous, or woolly state, or of late it has been spun into the form of rovings, yarn, or thread, and has then been formed into cartridges, either by winding, braiding, or weaving.

Now my Invention has for its object to assimilate the physical condition of gun cotton as nearly as possible to that of gunpowder, by mechanically 15 converting it into a solid homogeneous state, and imparting to it either a granular or other suitable form that will present the exact amount of surface and compactness required for obtaining a certain rapidity or intensity of combustion.

The method of treating the gun cotton which I prefer to employ in carrying