

UNITED STATES PATENT OFFICE.

HENRY DREYFUS, OF LONDON, ENGLAND.

MANUFACTURE OF NON-INFLAMMABLE CELLULOID.

1,315,480.

Specification of Letters Patent.

Patented Sept. 9, 1919.

No Drawing.

Application filed July 31, 1918. Serial No. 247,496.

To all whom it may concern:

Be it known that I, HENRY DREYFUS, a citizen of the Swiss Republic, residing at London, England, have invented certain
5 new and useful Improvements Relating to the Manufacture of Non-Inflammable Celluloid, of which the following is a specification.

This invention relates to the manufacture
10 of non-inflammable celluloid.

In the manufacture of celluloid, after the celluloid material has been rolled and cut off, it is put into presses by which it is pressed into rectangular or cylindrical
15 blocks or blocks of any other forms.

As is known, in this process of pressing the celluloid material, a certain pressure is used, which is generally the same, whether the presses are used for giving rectangular,
20 cylindrical or any other forms of blocks. The pressure usually employed is about 150 kilograms per square centimeter.

I have now found that by using much higher pressure than that generally hitherto used, low inflammable celluloid can be
25 obtained possessing other properties than the low inflammable celluloid produced under the usual pressure.

With this object, according to my invention, the celluloid material is subjected to a
30 pressure higher by 100 per cent. or more, than that usually employed; it may be even

several times as great as the usual pressure. That is to say I employ pressures of from about 300 kilograms per square centimeter
35 upward.

The material obtained by means of the invention is distinguished by possessing a much greater density and presenting a much greater resistance to influences such as climate, weather, chemicals and so forth.
40

The invention is applicable to non-inflammable celluloids of all kinds, including, in particular, those having a basis of acetate of cellulose and the like, but not to celluloids having a basis of nitro-cellulose or of mixtures containing nitro-cellulose in substantial proportion.
45

What I claim and desire to secure by Letters Patent is:
50

1. In a process for the manufacture of low-inflammable celluloid, the method of subjecting the low-inflammable celluloid material to a pressure of not less than about 300 kilograms per square centimeter.
55

2. In a process for the manufacture of low-inflammable celluloid, the method of subjecting the low-inflammable celluloid material having a basis of cellulose acetate to a pressure of not less than about 300 kilograms per square centimeter.
60

In testimony whereof I have hereunto subscribed my name.

HENRY DREYFUS.