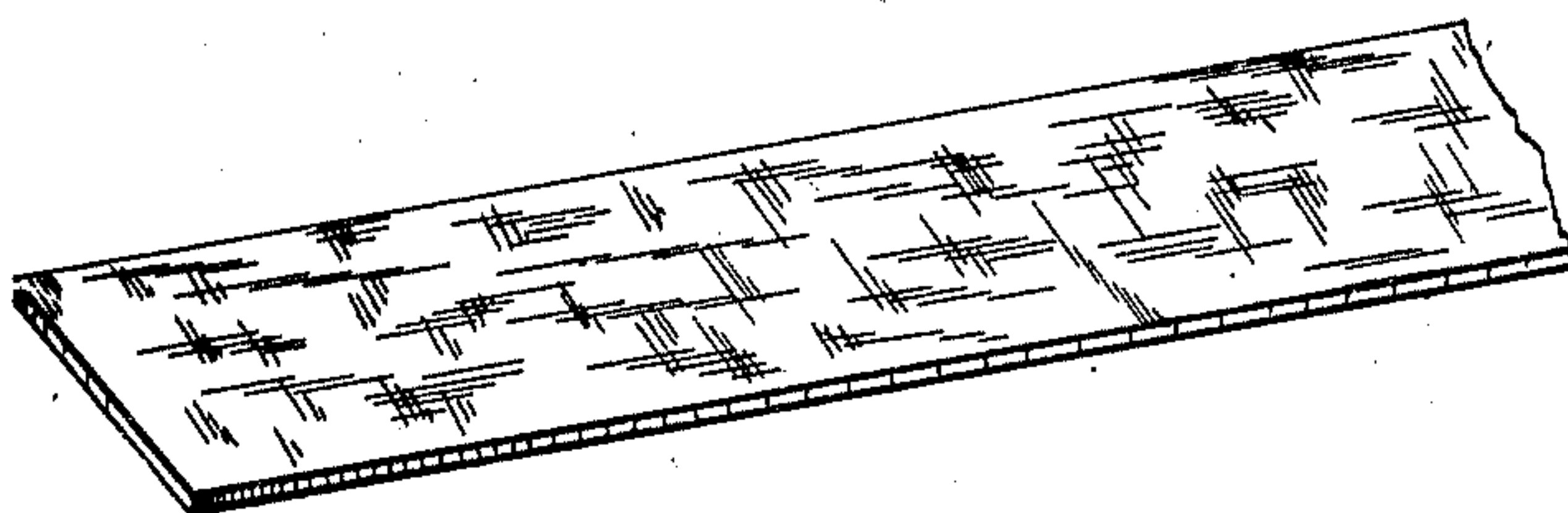


(No Model.)

C. A. SCHNEIDER.
Lamp Wick.

No. 239,855.

Patented April 5, 1881.



WITNESSES:

Chas. Nida.
C. Sedgwick

INVENTOR:

C. A. Schneider
BY *Miner H.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES A. SCHNEIDER, OF NEW YORK, N. Y.

LAMP-WICK.

SPECIFICATION forming part of Letters Patent No. 239,855, dated April 5, 1881.

Application filed February 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. SCHNEIDER, of the city, county, and State of New York, have invented a new and Improved Lamp-Wick, of which the following is a specification.

The object of this invention is to produce a more steady, softer, and uniform flame, and to render the wick less combustible.

10 The invention consists in impregnating the wick with certain saline substances which check its too rapid combustion, and therefore diminish the amount and retard the formation of carbonaceous crust on the wick, which, when
15 abundant, causes a diminished and irregular flame. The salts I employ are phosphate of ammonia, biborate of soda, sulphate of ammonia, and chloride of lithium. These salts are dissolved in water in the proportion, or there-
20 about, of three ounces of phosphate of ammonia, one ounce of biborate of soda, one ounce of sulphate of ammonia, and five grains of chloride of lithium to one pint of water, this amount serving to impregnate about two hun-
25 dred and fifty wicks.

30 The invention further consists in exposing said wick to be dried—that it will shrink as much as it will—after it has been immersed in and withdrawn from the said solution, and in then dampening said wick, and then pressing and smoothing it with a heated iron, that it may readily enter the wick-tube of a lamp.

The drawing represents a wick so prepared.

The wick may be of cotton or other vegetable fiber, or of wool or hair, or a combination 35 of the same.

The solution of salts as herein given retards the combustion of the wick, so that it lasts longer, and the chloride of lithium possesses the further advantage of affecting the color of 40 the light, so that it is softer and more agreeable to the eye.

Having thus described my invention, I claim as new and desire to secure by Letters Patent— 45

1. As an improved article of manufacture, a lamp-wick made, as herein shown and described, with an impregnated compound consisting of phosphate of ammonia, biborate of soda, sulphate of ammonia, and chloride of 50 lithium, as set forth.

2. The method, substantially as herein described, of preparing lamp-wicks, which consists in immersing the wick in an aqueous solution of phosphate of ammonia, biborate of 55 soda, sulphate of ammonia, and chloride of lithium, in then withdrawing and drying said wick, and in subjecting it to the pressure of a hot iron, as set forth.

CHARLES A. SCHNEIDER.

Witnesses:

I. I. STORER,
C. SEDGWICK