UNITED STATES PATENT OFFICE.

ELIJAH ASHWORTH, OF MANCHESTER, ENGLAND.

FOUNDATION FOR CARD-CLOTHING.

SPECIFICATION forming part of Letters Patent No. 629,326, dated July 25, 1899.

Application filed January 11, 1899. Serial No. 701,329. (No specimens.)

To all whom it may concern:

Be it known that I, ELIJAH ASHWORTH, machine-maker, a subject of the Queen of Great Britain and Ireland, residing at the Moss Brook Works, Collyhurst, Manchester, in the county of Lancaster, England, and also of Fall River, Massachusetts, have invented certain new and useful Improvements in or Connected with the Foundations of Card-Clothing, (for which I have made application for Letters Patent in Great Britain, No. 15,023, dated July 8, 1898,) of which the following is a specification.

My said invention relates to card-foundation, and has for its object so to treat the foundation as to render it impervious to moisture and atmospheric influences, which at present have a deteriorating effect upon the card-clothing.

In carrying my invention into effect I treat the foundation before the same is set with card-teeth with wax, which renders the foundation repellant to moisture and tends to preserve it, while at the same time rendering it solid and leather-like in texture. I have found in practice that the most economical wax for the purpose is paraffin-wax applied to the foundation in a melted state. In addition to rendering the foundation repellant to moisture the effect of the treatment with paraffin-wax is to give additional solidity to the foundation, enabling the wire dents to be set with greater regularity.

My invention is particularly applicable to the foundation made in accordance with specification of my United States Patent No. 578,592.

I prefer to apply the paraffin-wax in a melted state, the wax being contained in any suitable tank or trough, to which heat is applied. The foundation is run through the bath of melted paraffin-wax in a spiral fashion or at a suitably slow speed to provide for the requisite length of immersion, and excess of wax is expressed by a pair of squeezing-bowls, the excess being returned to the tank. Thus the foundation is thoroughly saturated and all the interstices of the fabric are filled up with the paraffin-wax. I may, however, apply the paraffin-wax to the foundation in a solid state, the paraffin-wax being well rubbed into the foundation.

After treatment with the paraffin-wax the foundation may be burnished or pressed.

I declare that what I claim is—

Card-clothing comprising teeth set in a foundation composed of a plurality of layers of woven material stitched or woven together and impregnated with paraffin-wax substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ELIJAH ASHWORTH.

Witnesses:
JOSHUA ENTWISLE,
ALFRED YATES.