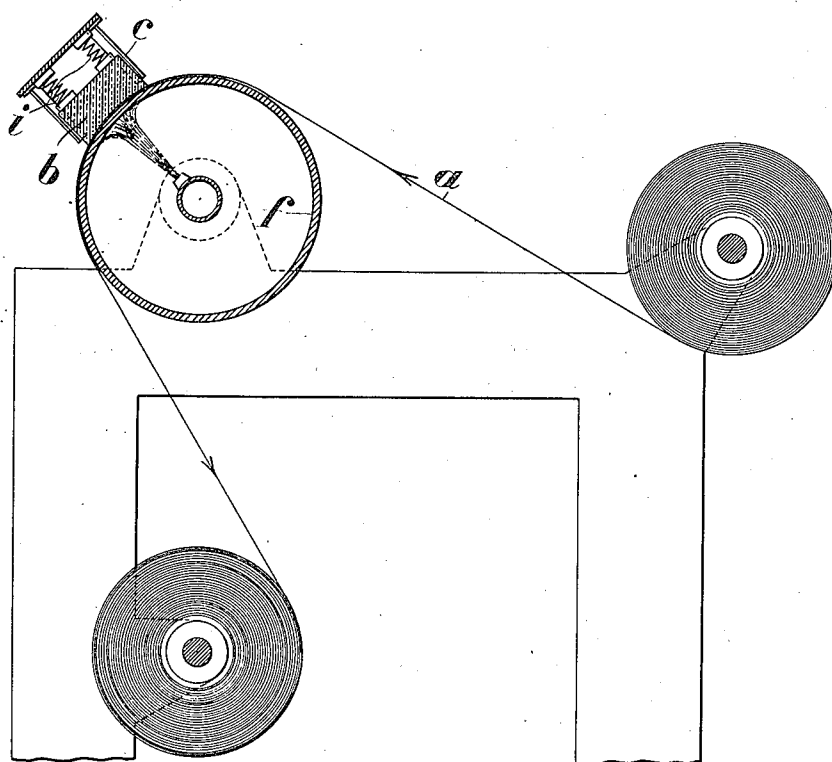


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MANUFACTURE OF INSULATING FIBROUS WEBS FOR ELECTRIC INSULATION PURPOSES.
APPLICATION FILED DEC. 19, 1918.

1,383,740.

Patented July 5, 1921.



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UNITED STATES PATENT OFFICE.

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MANUFACTURE OF INSULATING FIBROUS WEBS FOR ELECTRIC-INSULATION PURPOSES.

1,383,740.

Specification of Letters Patent.

Patented July 5, 1921.

Application filed December 19, 1918. Serial No. 267,512.

To all whom it may concern:

Be it known that I, WALTER MEYER, a citizen of the Swiss Republic, and resident of Burgdorf, Switzerland, have invented new and useful Improvements in the Manufacture of Insulating Fibrous Webs for Electric-Insulation Purposes, of which the following is a full, clear, and exact specification.

For the manufacture of varnished paper as used for the fabrication of electric insulation articles, there is generally employed a solution of varnish and the like in alcohol, benzene and other volatile solvents, which is applied in liquid state to the paper web, whereupon the varnish, on passage of the paper web through a drying room or over a drying surface, is dried up by elimination of the solvent. Another method consists in using the varnish or other agglutinant in dry state in the form of a powder supplied to the paper web and caused to adhere thereon.

The present invention relates to an improved method in the manufacture of such insulating webs, which consists in using the agglutinant in form of a solid block pressed upon a movable web where the same is conveyed over a convenient heating surface, so as to smelt off and adherently apply the agglutinant to said web.

This method is advantageously used in the cases where the web is relatively narrow and the agglutinant block, consequently, relatively short.

The accompanying drawing illustrates the present invention for coating a paper web.

The agglutinant is employed in the form of a solid bar *b* arranged in a holder *c* and pressed upon the paper web *a* at the place

where the same passes over a heating roller *f*, so that by reason of the heat thereof the agglutinant smelts off and forms on the paper web a uniform coating firmly adhering thereto. The pressure with which the agglutinant block *b* is applied upon the paper web, is effected by means of springs *i*, but could also be produced by other means, such as for example a conveniently arranged weight. The intensity of this pressure determines the thickness of the agglutinant supply, which can be varied or regulated by regulation of the pressure of the block. In analogous manner the block or bar *b* can be removed from the paper web *a* when it is desired to stop intermittently or wholly the agglutinant supply to the same.

To limit the agglutinant supply area in the direction of the breadth of the web, the block can be made with the desired length or divided transversely.

What I claim is:

A process for the manufacture of insulating fibrous webs for electric insulation purposes, consisting in yieldingly pressing a solid block of fusible agglutinant insulating material upon one side of a movable web and in applying heat on the other side thereof at the same zone of action so as to smelt off and adherently apply agglutinant material to said web.

In witness whereof I have hereunto signed my name this 18th day of November, 1918, in the presence of two subscribing witnesses.

WALTER MEYER

Witnesses:

H. HALECK,
AMAND BRAUN.