

(No Model.)

S. ROBERTS.

FOUNDATION OF CARD CLOTHING.

No. 397,441.

Patented Feb. 5, 1889.

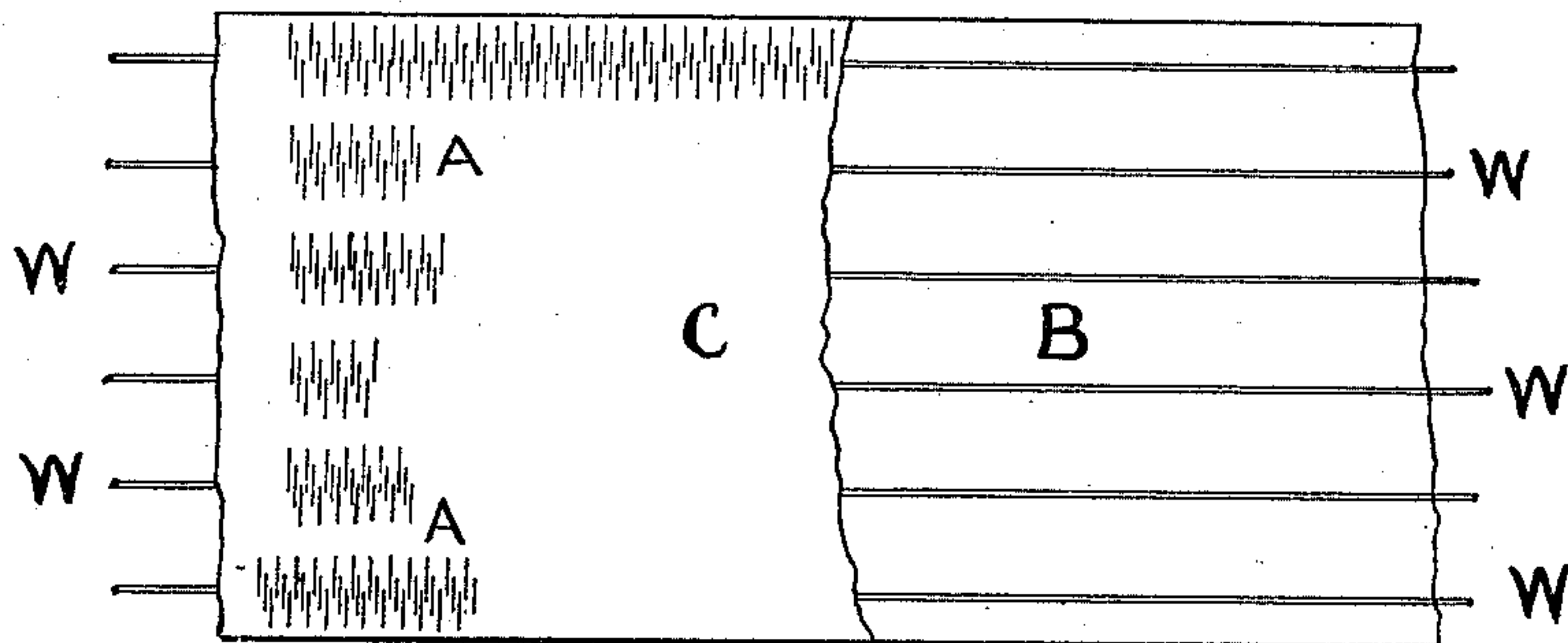


FIG. 1.

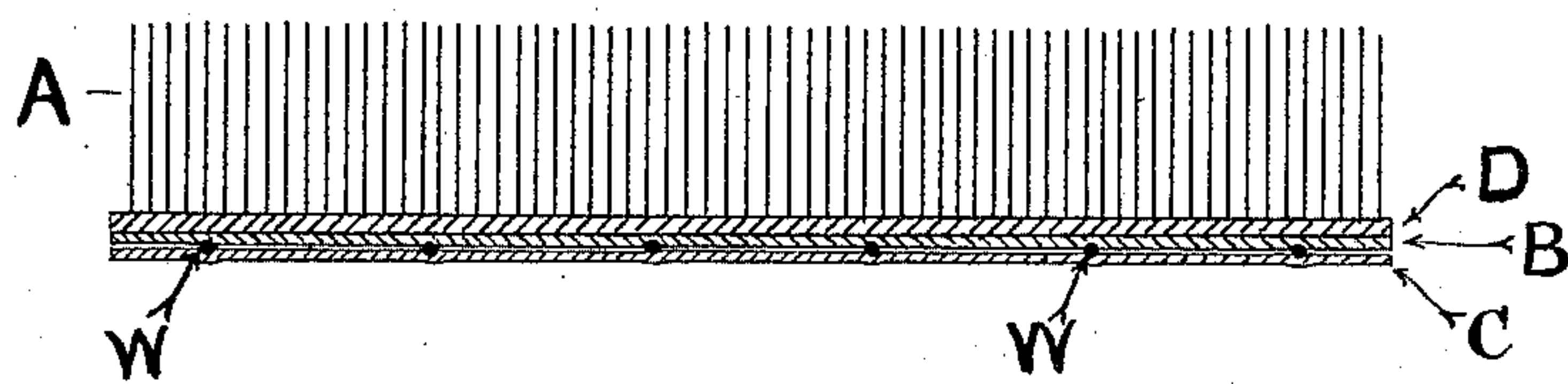


FIG. 2.

WITNESSES:

E. J. Griswold
Wm. Chester Wells

INVENTOR

Squire Roberts
by his Attorney
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UNITED STATES PATENT OFFICE.

SQUIRE ROBERTS, OF CLECKHEATON, COUNTY OF YORK, ENGLAND, AS-
SIGNOR OF ONE-HALF TO JOHN VOSPER CURRY, OF SAME PLACE.

FOUNDATION OF CARD-CLOTHING.

SPECIFICATION forming part of Letters Patent No. 397,441, dated February 5, 1889.

Application filed January 18, 1888. Serial No. 261,133. (No model.) Patented in England February 22, 1887, No. 2,727.

To all whom it may concern:

Be it known that I, SQUIRE ROBERTS, a sub-
ject of the Queen of Great Britain and Ireland,
and residing at Cleckheaton, in the county of
York, England, have invented certain Im-
provements in the Foundations of Card-Cloth-
ing for Carding Fibers, (for which I, along
with my assignees, Henry Law and John Vos-
per Curry, have obtained Letters Patent in
England, No. 2,727, dated February 22, 1887,) 10
of which the following is a specification.

This invention relates to certain improve-
ments in the construction of the foundations
for card-clothing which are now commonly em-
ployed in lieu of leather formerly used for this
purpose; the great cost of leather and its in-
equality as to thickness and pliability lead-
ing to the adoption of a woven fabric coated
with rubber and now universally known as
"cloth-filleting;" but experience has shown
that whereas cloth-filleting has many advan-
tages over leather, it nevertheless has one
radical defect, which is the object of this in-
vention to remedy, and that is that after being
worked a time the foundation elongates and
becomes slack on the surface of the card-cyl-
inder, thereby causing what is technically
known as "running," the result being bad
carding or inferior opening of the fiber, and
considerably shortening the life of the whole
of the clothing of the card. 20

In the accompanying sheet of drawings,
Figure 1 represents the under side of a piece
of card filleting constructed according to this
invention, showing a few of the crowns of the
dents or teeth A, which are inserted in the or-
dinary manner; and Fig. 2 is a cross-section 35

of the same drawn to an enlarged scale, the
teeth or dents A being on the upper surface.

The card foundation may be composed of
two or more thicknesses of cloth and rubber, 40
the drawings illustrating a card foundation
composed of two sheets of cloth of strong
texture, indicated by the letters B and C, and
a covering of sheet-rubber, D, the latter and
cloth B being cemented together in the usual 45
manner, and in order to provide a positive
remedy for the before-mentioned well-known
serious defect a number of metallic wires, W,
are placed lengthwise, by preference, between 50
the two sheets of cloth B and C, which are also
cemented together in the same manner as
hitherto, thereby embedding in the foundation
pliable material practically non-elastic, which
acts as a metallic warp, greatly adding to the 55
strength of the cloth, and absolutely prevent-
ing the elongation or running, as is the case
with clothing as hitherto constructed after
being in use for a short time.

I am aware that it has been proposed to 60
combine metallic warps or strips with belting
or hose; but

I claim as my invention—

Cloth-filleting of rubber and cloth with lon-
gitudinal metallic wires between the layers 65
and with card teeth or dents passing through
this filleting, substantially as described.

In testimony whereof I have signed my name
to this specification in the presence of two sub-
scribing witnesses.

SQUIRE ROBERTS.

Witnesses:

E. M. BRAY,
JOHN GILL.