# G. W. SWIFT, JR. CORRUGATED PAPER BOARD. APPLICATION FILED SEPT. 2, 1910.

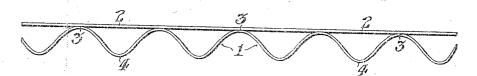
1,032,789.

Patented July 16, 1912.

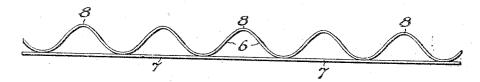
# FIG.I.



## FIG.II



### FIG. III



# WITNESSES:

Philip W. Vessey James M. Cabe

### INVENTOR:

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# UNITED STATES PATENT OFFICE.

GEORGE W. SWIFT, JR., OF BORDENTOWN, NEW JERSEY.

#### CORRUGATED PAPER-BOARD.

1.032,789.

Specification of Letters Patent.

Patented July 16, 1912.

Application filed September 2, 1910. Serial No. 580,236.

To all whom it may concern.

Be it known that I. George W. Swift, Jr., of Bordentown, in the State of New Jersey, have invented a certain new and 5 useful Improvement in Corrugated Paper-Board, whereof the following is a specification, reference being had to the accompanying drawing.

My invention relates to cellular fabric 19 comprising a corrugated paper web having plane paper webs upon opposite sides thereof. The corrugated web in such fabric, as ordinarily constructed, consists of either a single ply or a plurality of plies pasted to-15 gether throughout their extent and such fabric offers but slight resistance to crushing strains and is easily permanently collapsed.

It is the object of my invention to pro-20 duce such a fabric with a plurality of relatively movable corrugated webs so correlated as to retain their resiliency and offer greater resistance to crushing strains than

said ordinary fabric. As hereinafter described, my invention provides a plurality of currugated webs having their corrugations intermeshed and connected with each other at their crests; preferably interposed between outer plane 30 webs connected to the contiguous crests of the corrugations of the corrugated webs; said corrugated webs being separate from each other except at their crests, so that they are capable of relative movement and 35 are not crushed together by strains which would collapse a single web of their aggregate thickness.

My invention includes the various novel features of construction and arrangement 40 hereinafter more definitely specified.

In the drawing; Figure I is an edge view of a corrugated paper board constructed in accordance with my invention. Figs. II and III are respective edge views of similar 45 fabrics adapted to be connected to form the

fabric shown in Fig. I. I find it convenient in the construction of my improved fabric shown in Fig. I to first connect a single corrugated fabric 1 50 with a plane web 2 by conting with adhesive the crests 3 of the corrugations shown in Fig. II upon one side of said web 1 and maintaining the same in contact with the plane web 2 until the two webs adhere, then 55 coating the opposite crests 4 of said web with adhesive and then connecting to such a rality of corrugated webs between said outer

fabric as shown in Fig. II, another similar fabric comprising the corrugated web 6 and plane web 7 shown in Fig. III; said web 6 having its crests 8 coated with adhesive so 60 that the corrugations of said two fabrics shown in Figs. II and III being intermeshed as shown in Fig. I and maintained in contact until they adhere; the opposite corrugated webs 1 and 6 are connected with 65 each other at the crests of their corrugations as shown in Fig. I; said corrugated webs remaining separate from each other between said crests. However, it is to be understood that a plurality of corrugated webs may be 70 intermeshed and connected with each other at their crests as described without being connected with plane webs as described. Therefore, I do not desire to limit myself to the precise details of construction and ar- 75 rangement herein set forth, as it is obvious that various modifications may be made therein without departing from the essential features of my invention as defined in the appended claims.

I claim:− 1. In corrugated paper board, the combination with opposite outer plane webs; of a plurality of corrugated webs between said plane webs, having their corrugations in- 85 termeshed; adhesive means connecting said plane webs to the contiguous crests of the corrugations of the corrugated webs; and, means connecting said corrugated webs with each other at the crests of their corruga- 90 tions; said corrugated webs being separate from each other between said crests whereby, said corrugated webs are relatively movable between said crests and more resilient than if connected throughout their length. 95
2. In corrugated paper board, the combi-

nation with opposite outer plane webs; of two corrugated webs between said plane webs, having their corrugations intermeshed; means connecting said plane webs 100 to the configuous crests of the corrugations of the respective corrugated webs; and, means connecting said corrugated webs with each other at the crests of their corrugations; said corrugated webs being separate 105 from each other between said crests whereby, said corrugated webs are relatively movable between said crests and more resilient than if connected throughout their length.

3. In corrugated paper board, the combi- 110 nation with opposite outer webs; of a plu-

having their corrugations intermeshed; means connecting said outer webs to the contiguous rests of the corrugations of the corrugated webs; and, means connect-ing said corrugated webs with each other at the crests of their corrugations; said corrugated webs being separate from each other between said crests whereby, said corrugated webs are relatively movable between 10 said crests and more resilient than if con-

nected throughout their length. 4. In corrugated paper board, the combination with a plurality of corrugated webs having their corrugations intermeshed; of 15 means connecting said webs with each other at the crests of their corrugations; said webs being separate from each other between said crests whereby, said corrugated webs are relatively movable between said crests and 20 more resilient than if connected throughout their length.

5. The process of making corrugated paper board which consists in attaching a plane web to a corrugated web by means at 25 the crests of the corrugations of the latter;

coating the opposite crests of said corrugated web with adhesive; then fitting two such fabrics together with their corrugations intermeshed thus connecting the op-posite corrugated webs with each other at 30 the crests of their corrugations; said corrugated webs remaining separate from each other between said crests.

6. The process of making corrugated paper board which consists in coating the op- 35 posite crests of two corrugated webs with adhesive; then fitting said webs together with their corrugations intermeshed thus connecting the opposite webs with each other at the crests of their corrugations; 40 said webs remaining separate from each

other between said crests.
In testimony whereof, I have hereunto signed my name at Bordentown, New Jersey, this thirty-first day of August, 1910. 45

GEORGE W. SWIFT, JR.

Witnesses:

JOSEPH S. SWAIM, Joseph R. Malone.