116,546

PATENT SPECIFICATION

Application Date, June 15, 1917. No. 8620/17.
Complete Left, Dec. 11, 1917.
Complete Accepted, June 17, 1918.

PROVISIONAL SPECIFICATION.

Improvements in Joints for Corrugated Sheets.

I, PETER NORMAN NISSEN, c/o The Institution of Mining & Metallurgy, 1, Finsbury Circus, in the City and County of London, Major, 29th Company, Royal Engineers, British Expeditionary Force, in France, do hereby declare the nature of this invention to be as follows:—

This invention relates to an improved junction piece for joining or seaming corrugated sheets, and it has for its object the provision of means for making such joints or seams which can be used over and over again and which are simple and cheap to construct.

I attain this end by forming the junction pieces of two strips of corrugated sheeting of the same pitch as the corrugations of the sheets to be joined or seamed said strips being rivetted or otherwise fixed together, with suitable distance pieces between them, so as to form longitudinal grooves at the edges to receive the edges of the sheets. The width of each junction piece is preferably such that the depth of each groove is approximately equal to the pitch of the corrugations of the sheets.

Dated this 15th day of June, 1917.

PHILLIPSS,
70, Chancery Lane, London, W.C. 2,
Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Joints for Corrugated Sheets.

I, PETER NORMAN NISSEN, c/o The Institute of Mining & Metallurgy, 1, Finsbury Circus, in the City and County of London, Lieutenant-Colonel Commanding Royal Engineer G.H.Q. Troops of the British Expeditionary Force, France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an improved junction piece for joining or seaming corrugated sheets, and it has for its object the provision of means for making such joints or seams which can be used over and over again and which are simple and cheap to construct.

I attain this end by forming the junction pieces of two strips of corrugated

[*Price* 6*d*.]

sheeting of the same pitch as the corrugations of the sheets to be joined or seamed said strips being rivetted or otherwise fixed together, with suitable distance pieces arranged centrally between them so as to form a groove along each edge said grooves being of segmental form in cross section.

These junction pieces are suitable and useful for all corrugated sheet constructions but are especially adapted for the construction of buildings, fences and the like where the sheets form the walls as said junction pieces afford such additional strength and support to the sheets as will in some cases obviate the necessity for any framework and in many cases will enable said framework to be reduced to a minimum. These junction pieces can also be usefully employed in the construction of tanks, bins and the like.

In the accompanying drawing which illustrates this invention:—

Fig. 1 is a broken view in front elevation of the improved junction piece,

Fig. 2 is a view in cross section thereof,

Fig. 3 is a view showing the method of applying the junction pieces, and

Fig. 4 is a view, showing by way of illustration, a circular building in which this invention is employed.

Throughout the views similar parts are marked with like letters of reference.

The junction pieces A consist of two strips *a* & *a* of corrugated sheet which are fixed to one another at a suitable distance apart by means of rivets *b* or the like arranged longitudinally along the centre of the strips which are kept at the required distance apart by distance pieces *c* which may take the form either of washers or of a continuous strip. The width of the strips *a* is such that the grooves *d* & *d* have a depth at least equal to the pitch or distance between the centres of the alternate curves and the width of said grooves is slightly in excess of the thickness of the sheets *x* to be joined or seamed so that the junction pieces can be brought into engagement with said sheets by an endwise sliding movement.

It will be seen that this improved junction piece forms an effective double key against transverse disengagement and although in the example shown each of said keys consists of only a single corrugation the junction pieces can be made of any width to include on each side any desired number of corrugations. Further it will be apparent that these junction pieces may be embodied or combined with any desired and convenient part of the structure such for instance as parts of the frames of doors, windows or the like.

When these junction pieces are employed to join or seam sheets of a shape having other than parallel sides said sheets are only corrugated along the edges or sides it is intended to join up or seam.

It will be appreciated that these junction pieces can be employed with corrugated sheets of metal or any other material and that no holes are required to be made in the sheets. These junction pieces make a very satisfactory joint for roofing sheets as they enable long sheets to be used without necessitating the use of extra purlins owing to their inherent stiffness and to their preventing any buckling of the sheets at the edges.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. Junction pieces for the joints or seams of corrugated sheets comprising two strips of corrugated sheet rivetted or otherwise fixed together with suitable distance pieces interposed so as to form a groove of segmental shape in cross section along each edge.

2. Junction pieces as claimed in the preceding claim characterised by their widths being such that each groove is of a depth equal to the pitch of the corrugations of the sheets.

3. The combination with corrugated sheets of junction pieces as claimed in the preceding claims.

4. In combination sheets having corrugations at their edges and junction pieces as claimed in the first claim adapted to engage said sheets by their corrugated edges.

5. In a junction piece for forming the joints or seams of corrugated sheets the combination of two strips of corrugated sheet *a*, of distance pieces *c* centrally arranged between said strips, and of fixing means for holding said strips together and keeping the distance pieces in position.

6. The improved joint for corrugated sheets, substantially as described and illustrated in the accompanying drawing.

Dated this 11th day of December, 1917.

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Agents for the Applicant.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1918.

Fig.1.

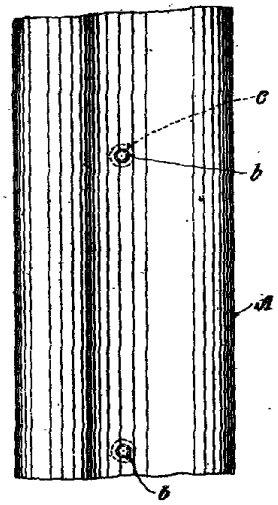


Fig.2.

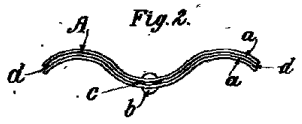


Fig.4.

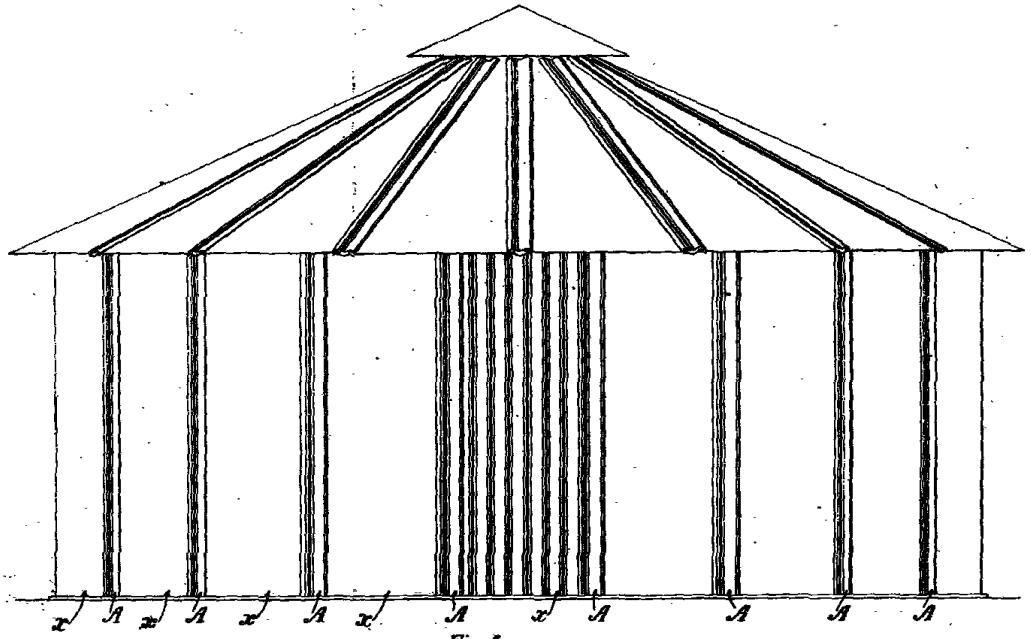


Fig.3.

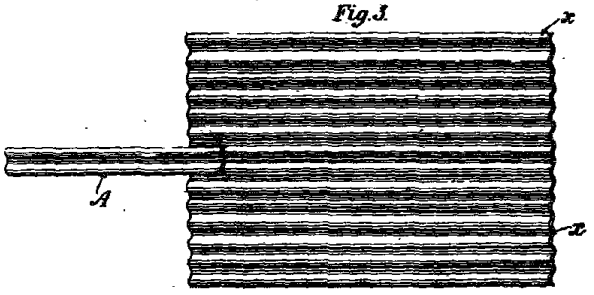
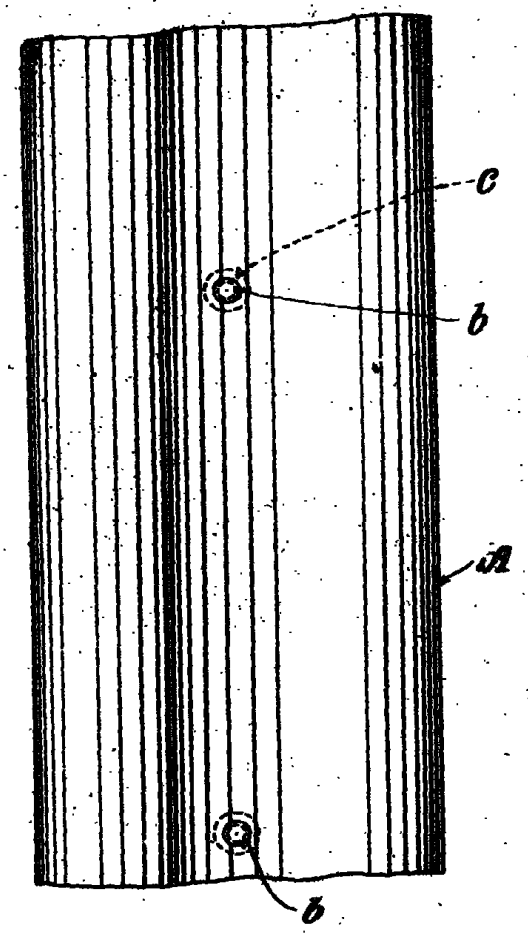


Fig. 1.



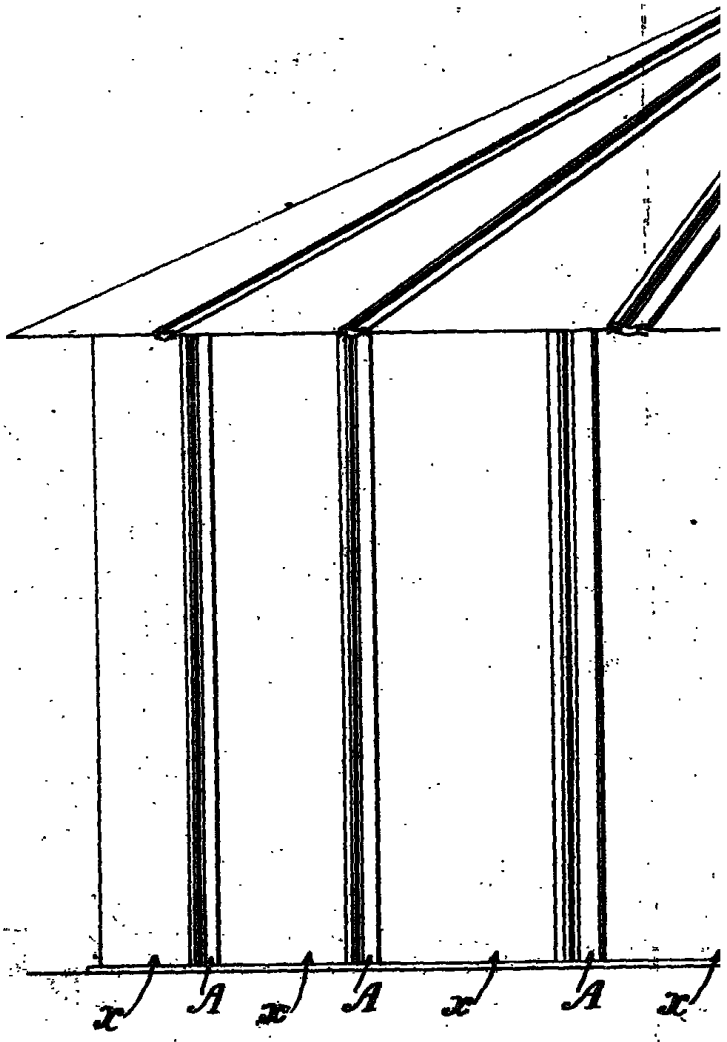
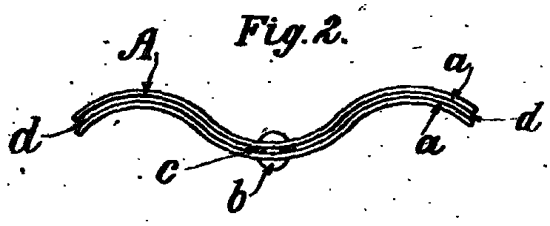


Fig. 2.



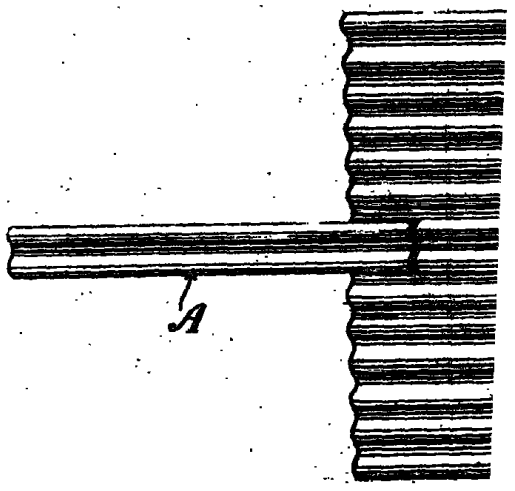


Fig.4.

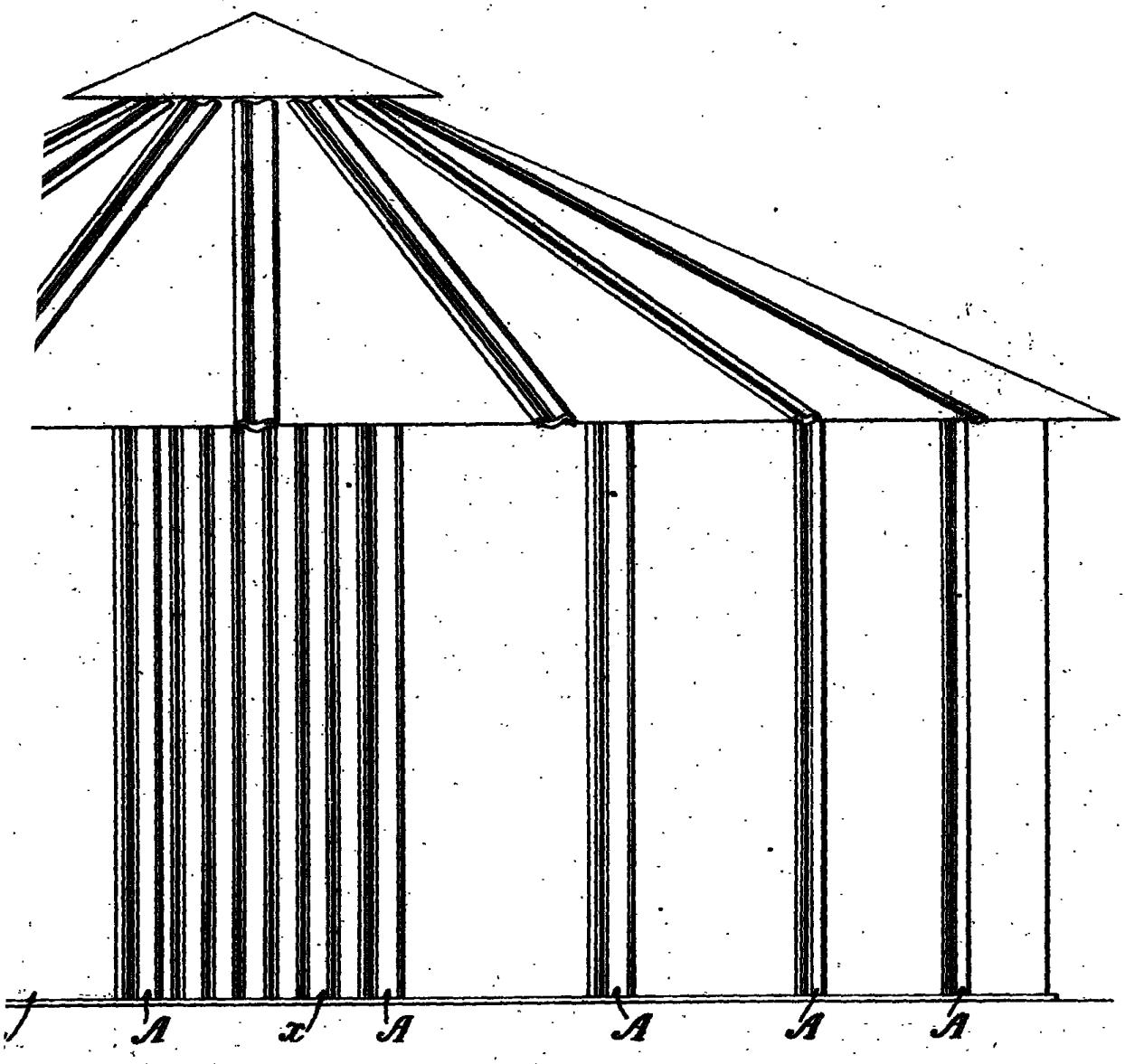
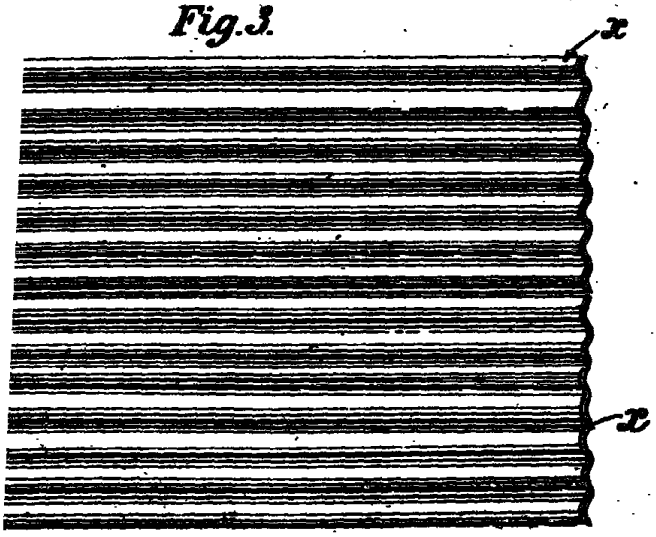


Fig.3.



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