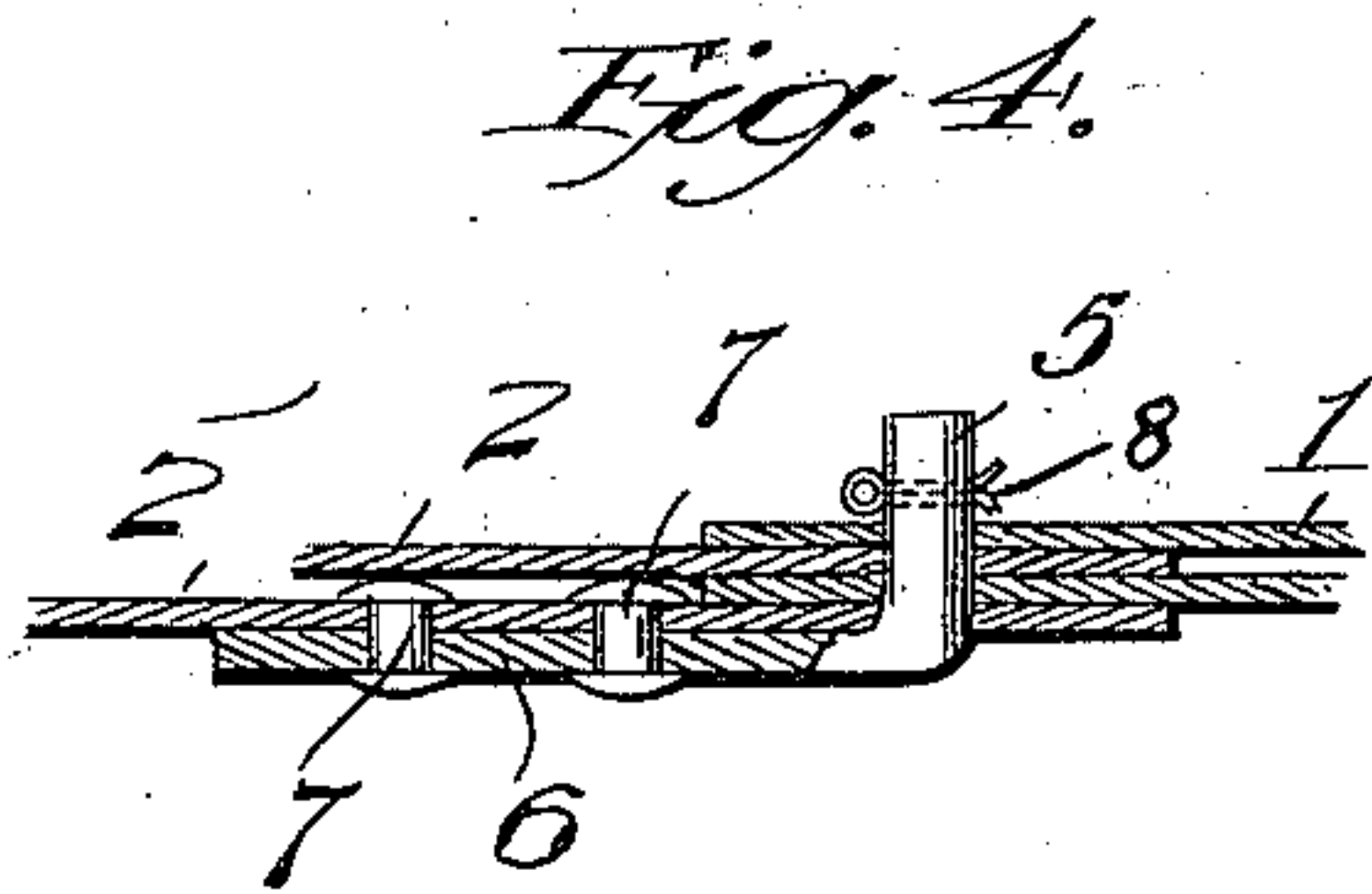
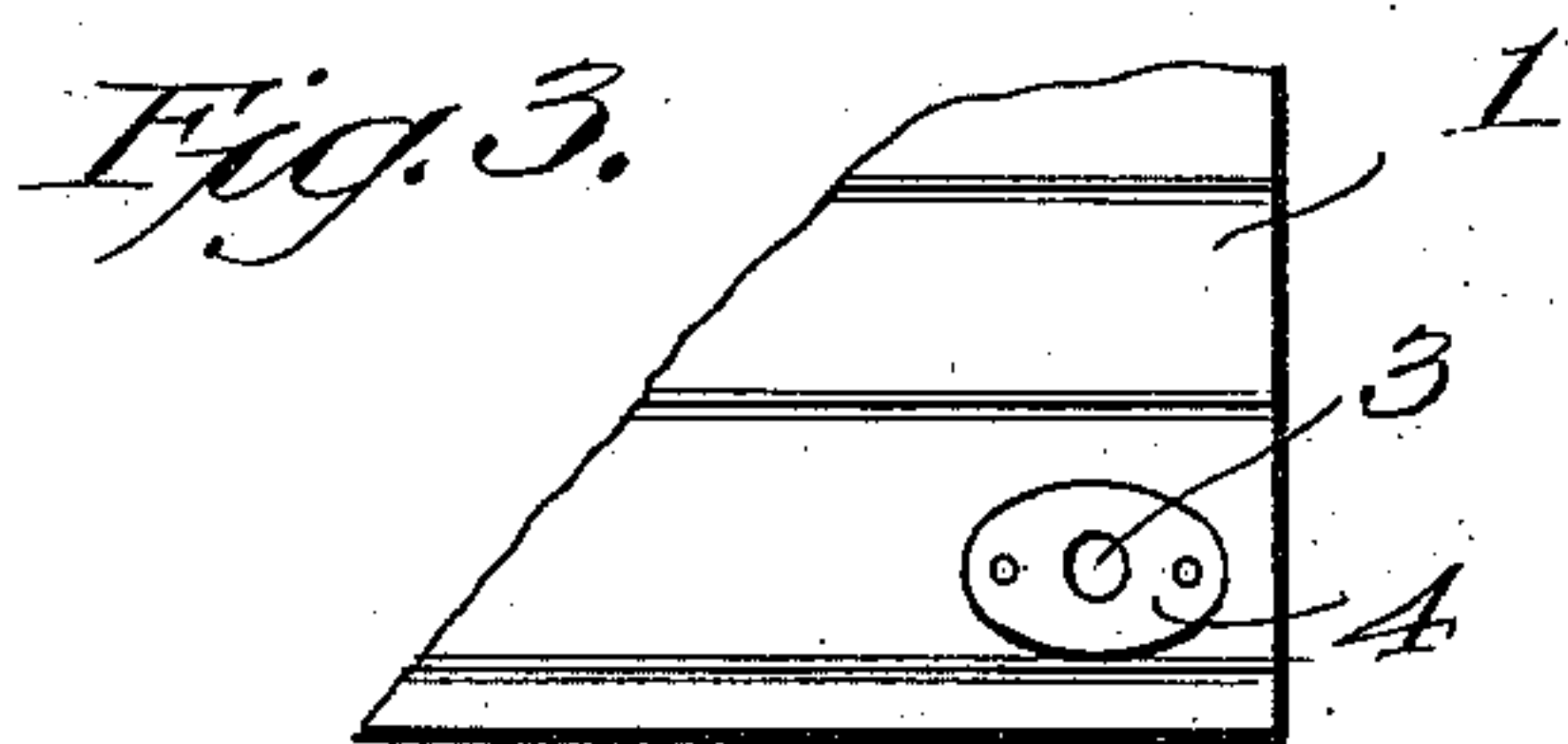
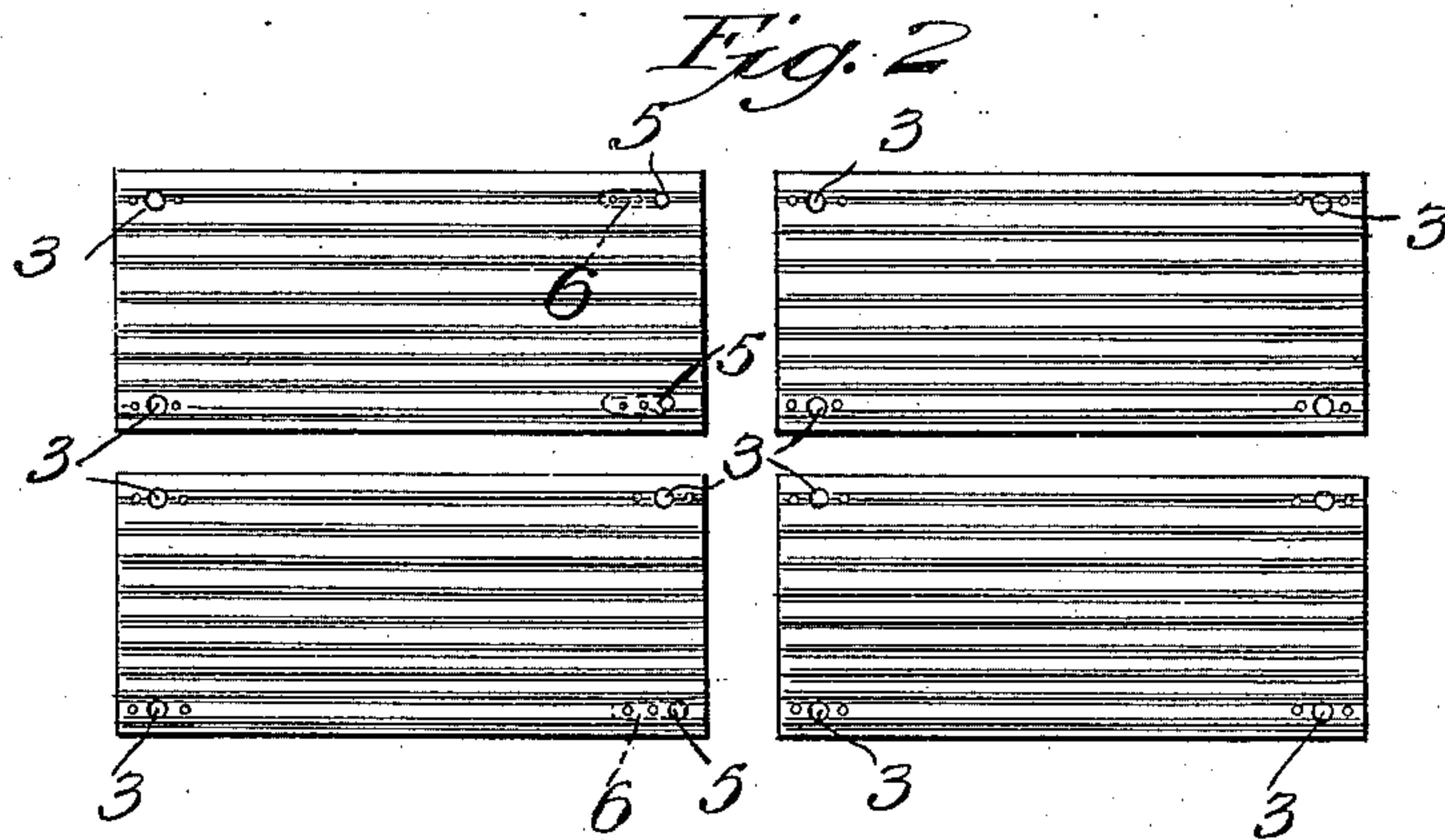
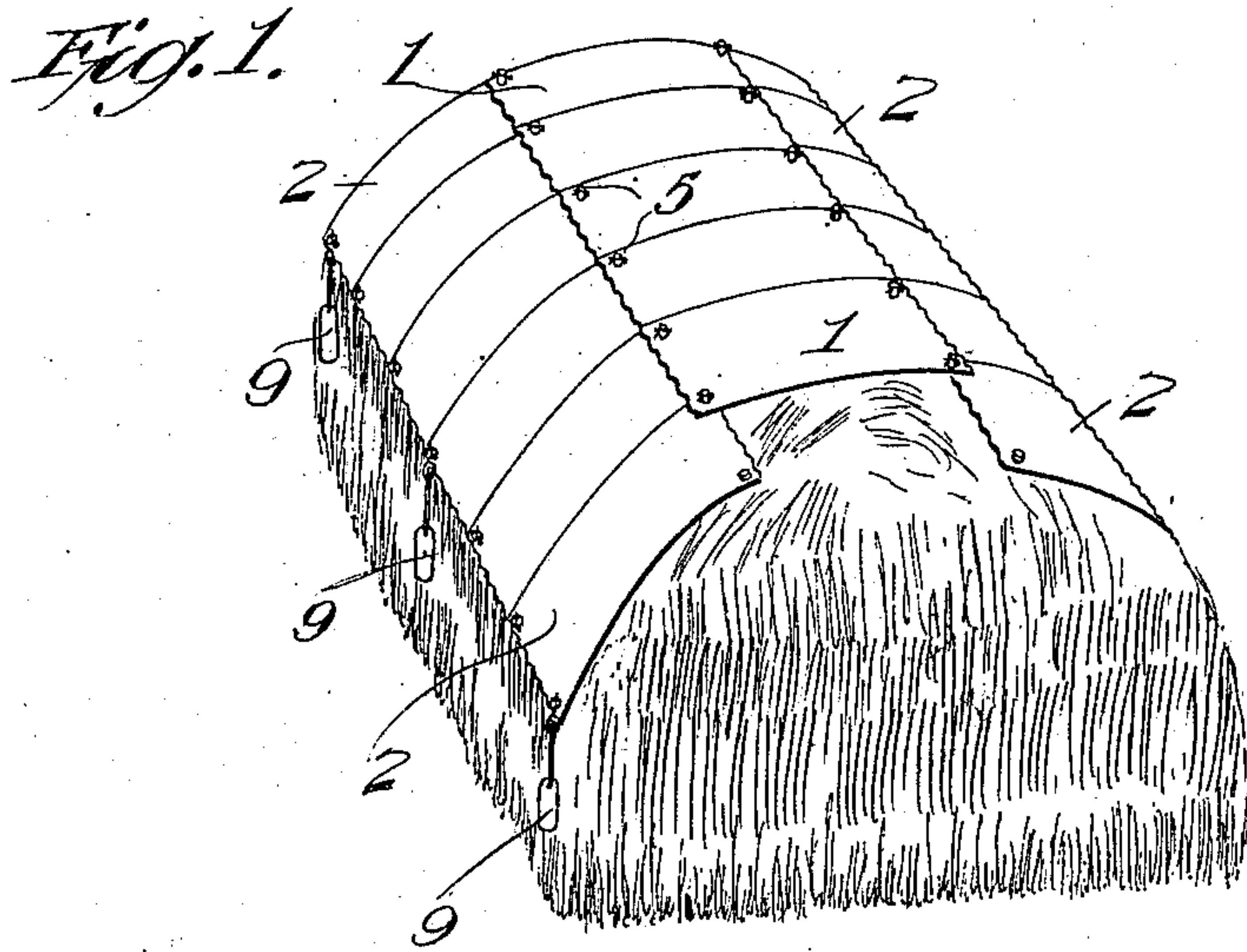


F. W. MARTIN.
CORRUGATED GALVANIZED STACK COVER.
APPLICATION FILED SEPT. 13, 1910.

989,624.

Patented Apr. 18, 1911.



WITNESSES
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UNITED STATES PATENT OFFICE.

FREDERICK W. MARTIN, OF WICHITA, KANSAS.

CORRUGATED GALVANIZED STACK-COVER.

989,624.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed September 13, 1910. Serial No. 581,902.

To all whom it may concern:

Be it known that I, FREDERICK W. MARTIN, a citizen of the United States, and resident of Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Corrugated Galvanized Stack-Covers, of which the following is a specification.

The present invention relates to portable roofs or sheds for housing hay, grain, or other field products, while in the open, to protect the same against rain, sleet, and other deteriorating elements; and has for its purpose to provide an arrangement of that character adapted to be supported upon and conform with the stack or pile.

The structure consists of a plurality of sheet metal sections having means for assembling the same into a substantially unitary fabric, and of the dimensions required to effectively cover the material to be protected, and wherein one and the same part of the assembling means serves both as the end and lateral connection between the sections when the same are assembled.

A further purpose contemplated is to provide a covering of the character in question embodying corrugated sheet metal sections which may be readily assembled or disassembled, individually or in connected groups, without necessitating any re-arrangement or alteration in the general shed structure.

The invention is shown by way of illustration in the accompanying drawing, wherein,

Figure 1 discloses the portable roof as assembled and in actual use; Fig. 2 is a top plan view of a group of roof sections disassembled; Fig. 3 shows the corner construction of one plate; and Fig. 4 illustrates in longitudinal section, the means for assembling a group of sections.

Referring to the structure of the roof in further detail and with like characters of reference indicating corresponding parts in the different views shown, 1 designates the middle plates or sections constituting the ridge of the shed, and which, as will be obvious, is supported upon and lengthwise of the uppermost part of the stack. Secured to the middle sections 1, are the side or over-

hanging sections 2, which arranged in lateral series and being overlapped by the edges of the sections 1, complete the protecting shed. 55

Each of the sections 1 and 2 consists of a corrugated metallic sheet shaped to the form of a section of a cylinder and having at its four corners a means whereby the sections may be grouped in proper assembled relation, or built-up in accordance with the extent of stack to be sheltered. This securing means consists, in some of the plates, of apertures 3 formed within the sheets adjacent the corner edges thereof, and at those places reinforced by the plates 4 similarly perforated. And coöperating with said apertures 3 are studs or bolts 5, on other sheets, and likewise located at the corners thereof. Each of the bolts consists of an angular member, the lateral portion 6 whereof is flattened and secured to and against the under side of its respective plate by means of rivets 7, and the portions 5 of said members project upwardly through the plates, for which purpose said plates are suitably perforated as shown in Fig. 4. By thus attaching the studs to the plates, viz. on the under sides thereof, the corners of the adjacent plates to be assembled are enabled to lie flush with the surface of the plate beneath. 60 65 70 75 80

In the arrangement shown herein, the central or ridge plates 1 are each perforated at the four corners thereof, and the side or overhanging sections 2 have each two bolts or studs, and two perforations; and which by means of the former hold the upper sections assembled, and support said overhanging sections. Each lateral series of sections is overlapped along the side edges thereof to the extent of one corrugation, which arrangement affords a reinforcement in the stiffening of the shed and also precludes the likelihood of water flowing past the overlapping sides. The side edges of the ridge overlap the upper edges of the assembled side sections for the full length of the shed, and in the corner connections thereof, the lower plates, or those having the studs, have superposed thereon the corners of the three overlapping plates, and through the perforations of which corners, pass the studs (see Fig. 4). Each of these corner connec- 85 90 95 100

tions is made secure through the medium of a cotter pin 8 passing through the exposed end of the stud 5.

5 The roof as a whole is held in position on the stack by means of weights 9 suspended from the eyes along the lower edges of the side sections.

10 It is necessary to structures of this type that the same be adapted to shelter stacks of different outline, and to this end the present invention is serviceable in that the corner joints are such that sufficient relative movement is permitted between the roof sections, whereby the shed may be set up to
15 cover, for instance, hay stacks of conical or substantially semi-cylindrical design.

20 It will be apparent that slight changes may be made in the arrangement for securing the sections together, to the end of greater simplicity in structure or reduction in the cost of manufacture, thus each of the sections could be constructed with only one stud and one eye, located medially of and on the opposite short edges thereof. In this
25 event, the assembled corrugations at the side edges of the plates would serve to provide the lateral securing means for the sections. Another possible construction is to have

each plate provided with two studs or two eyes, arranged alternately on the corners thereof. 30

I claim:—

A portable roof comprising a plurality of rectangular sheet metal sections adapted to be assembled in overlapped relation, said 35 sections being corrugated and adapted to have the corrugations of the overlapped portions lie in intimate engagement, each of said sections having apertures adjacent the corner edges thereof, and studs secured to 40 some of the sections, said studs projecting through the apertures of their respective sections and having each a laterally disposed flattened portion secured to the undersides of the sections, the projecting portions of 45 said studs adapted to pass through the apertures of the adjacent overlapped sections whereby to hold the several sections in assembled and flexible relation.

The foregoing specification signed at 50
Wichita, Kansas, this 23rd day of August, 1910.

FREDERICK W. MARTIN.

In presence of—

GEO. W. MARTIN,
E. M. HARGETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
