

No. 828,398.

PATENTED AUG. 14, 1906.

C. E. GARDNER.  
CLIP.

APPLICATION FILED APR. 3, 1905.

Fig. 1.

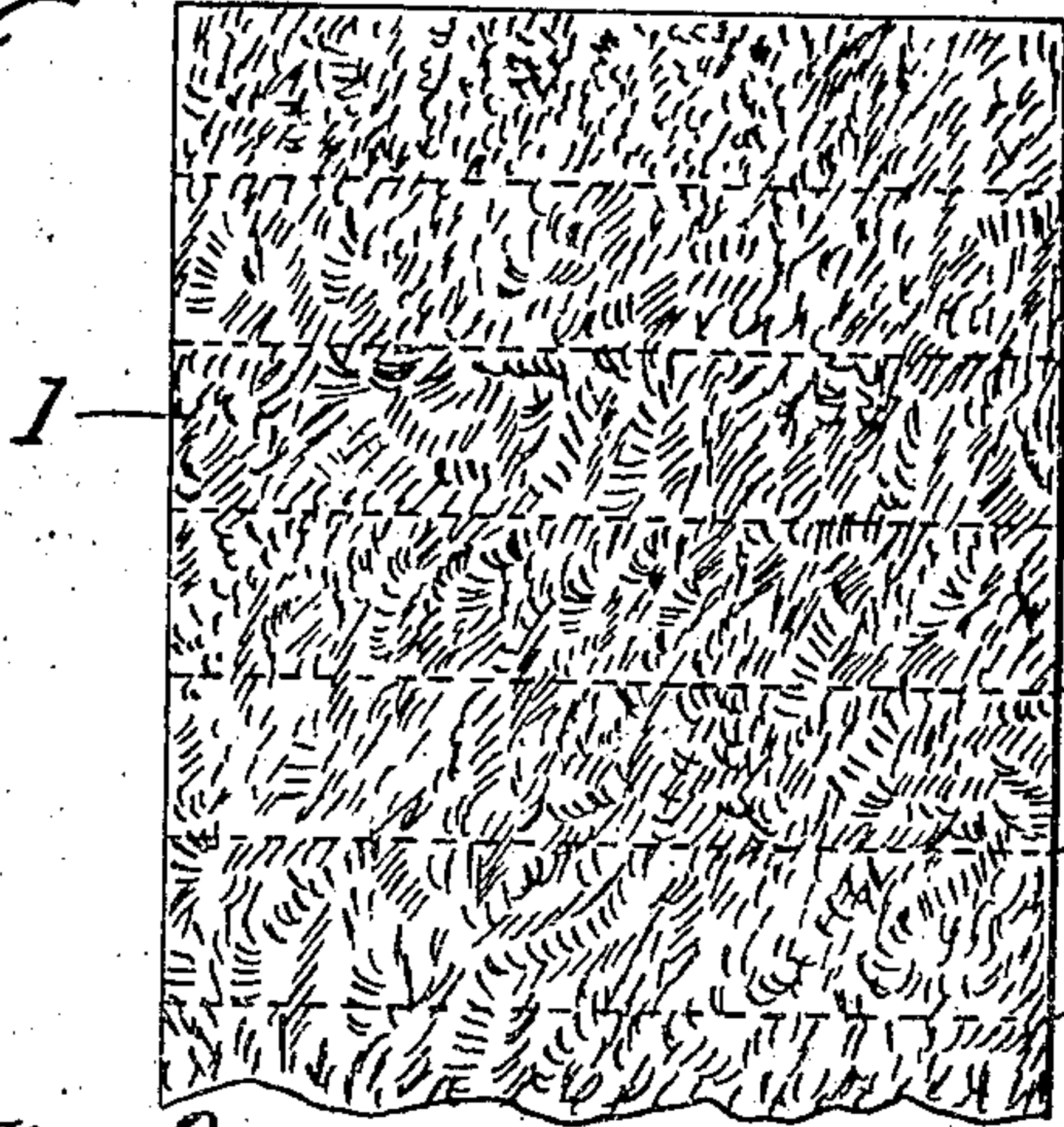


Fig. 5.

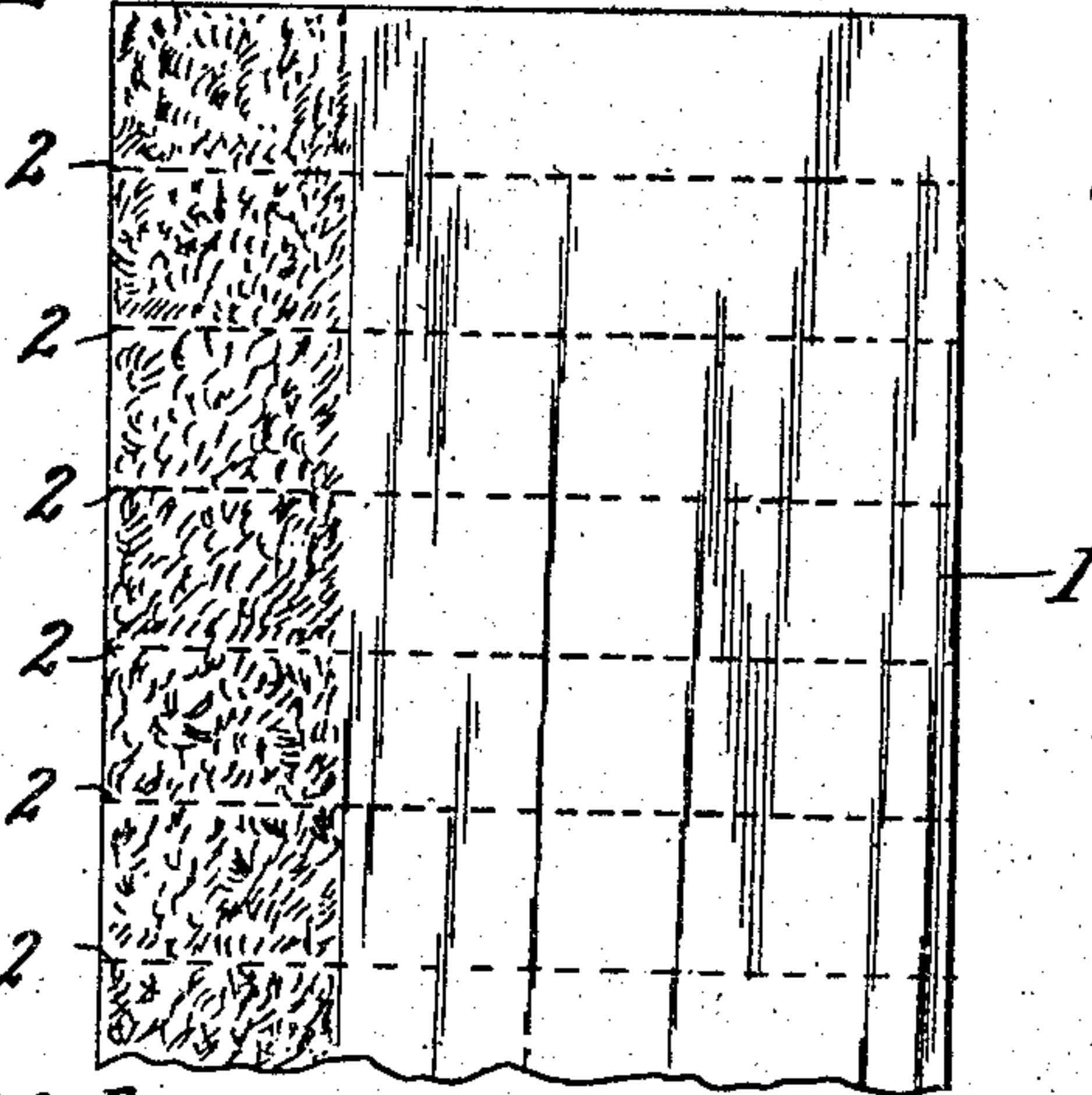


Fig. 2.



Fig. 3.

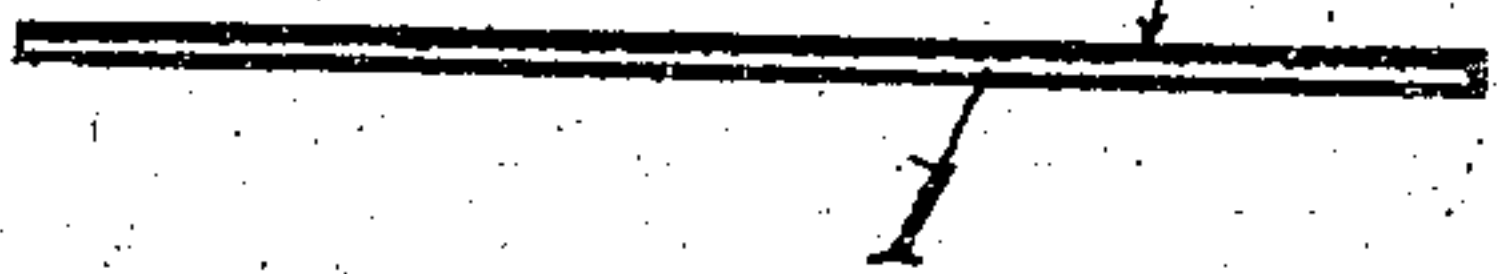


Fig. 4.

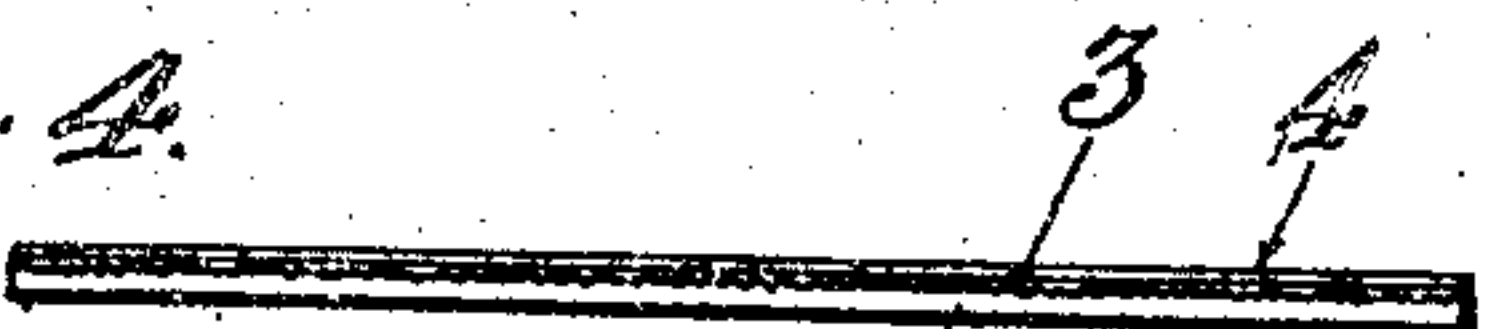


Fig. 7.



Fig. 8.



Fig. 9.

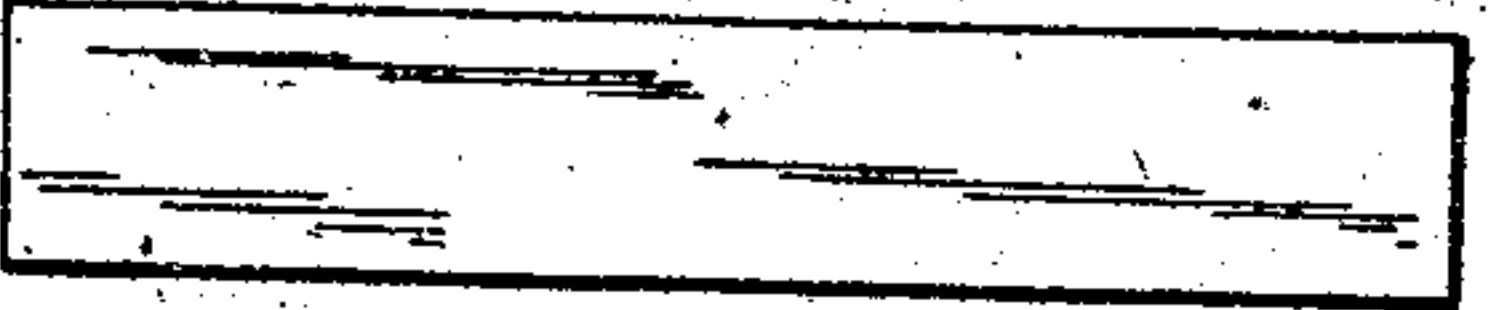


Fig. 10.

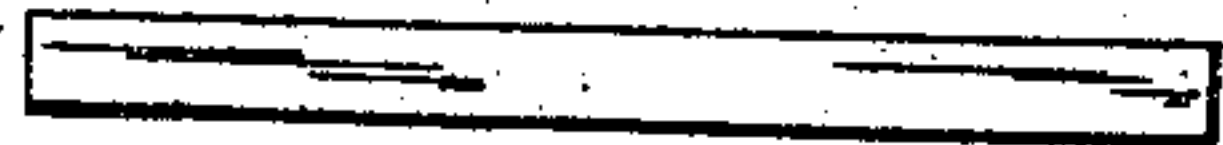


Fig. 11.

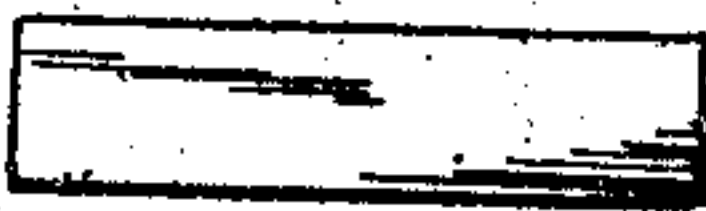


Fig. 12.



Witnesses

*W. T. Davis.*  
*A. Merrill.*

Fig. 6.

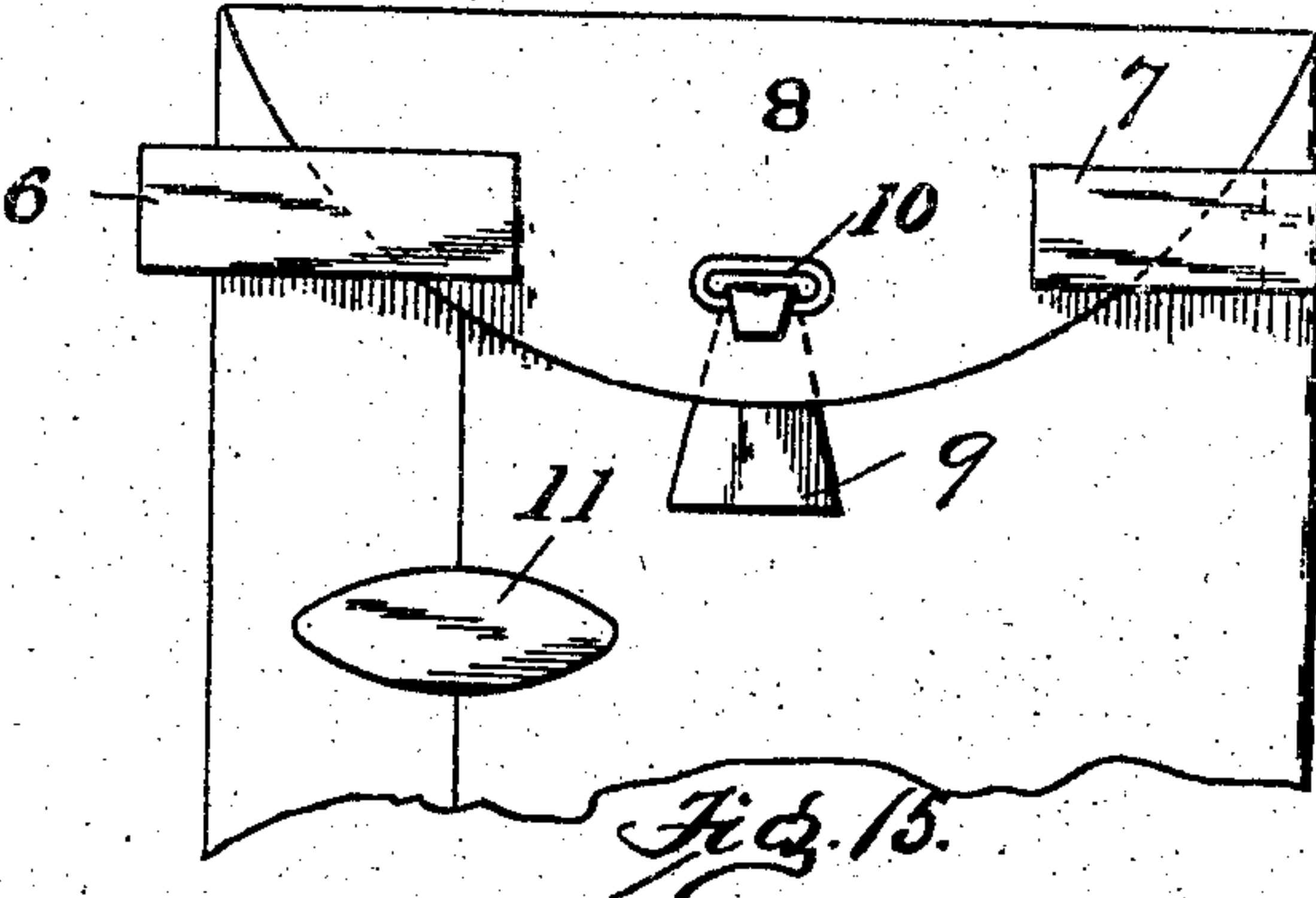
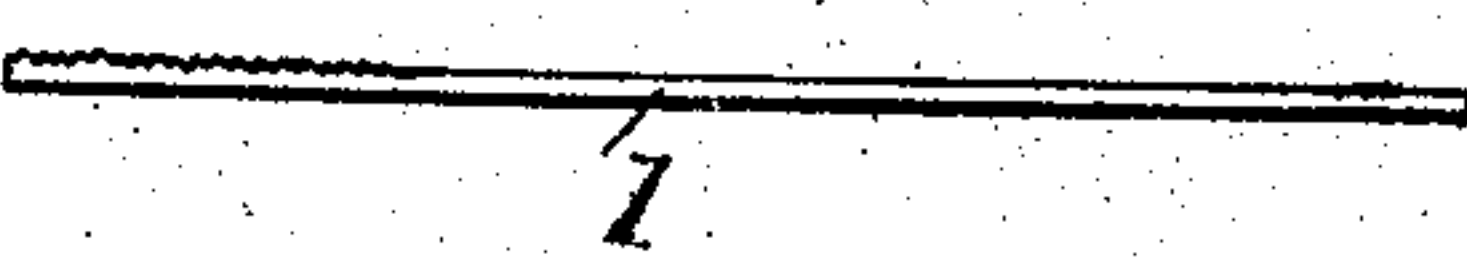


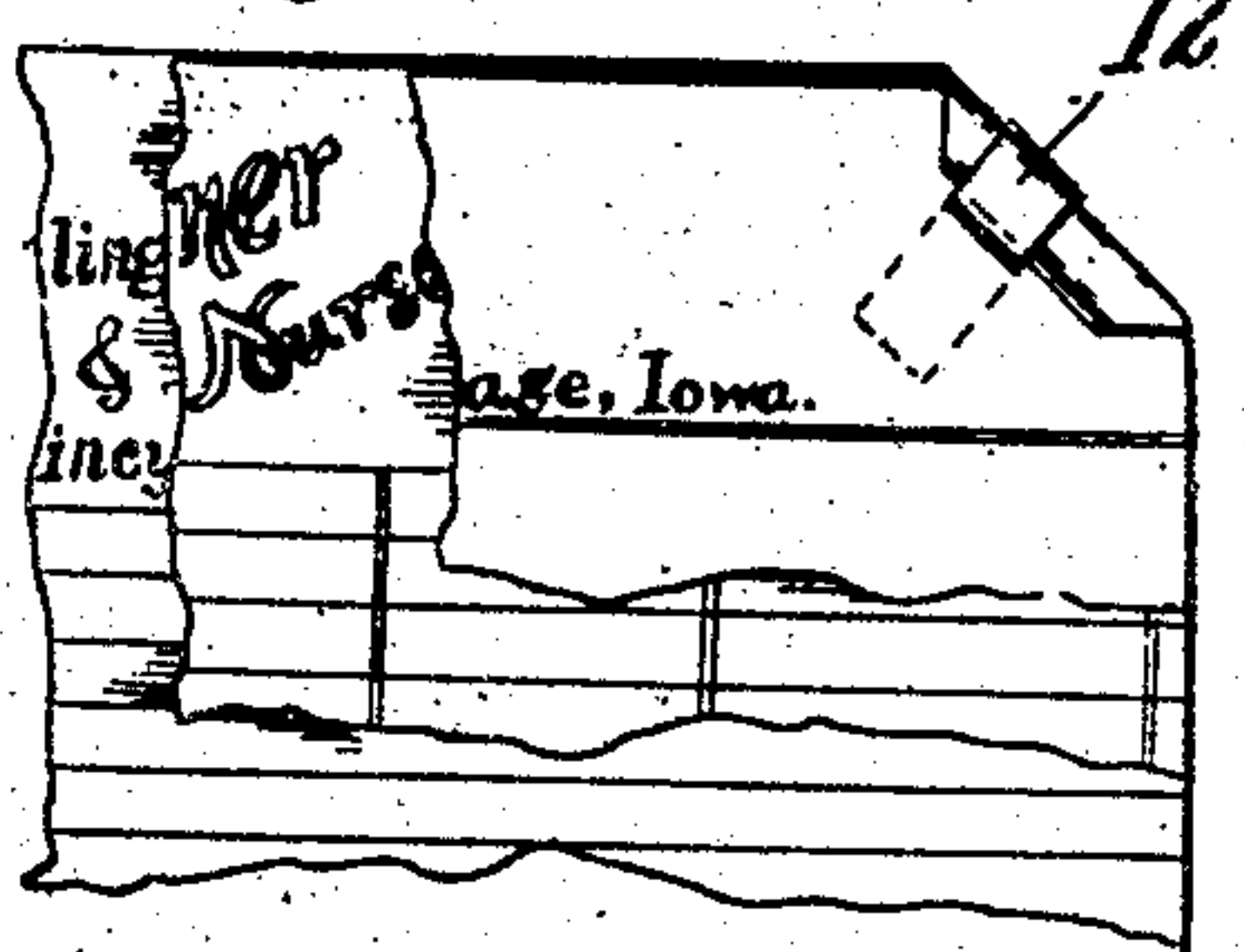
Fig. 13.



Fig. 14.



Fig. 16.



Inventor

Clark E. Gardner,

by *Shepherd & Parker,*  
Attorneys



# UNITED STATES PATENT OFFICE.

CLARK E. GARDNER, OF OSAGE, IOWA.

## CLIP.

No. 828,398.

Specification of Letters Patent.

Patented Aug. 14, 1906.

Application filed April 3, 1905. Serial No. 253,428.

*To all whom it may concern:*

Be it known that I, CLARK E. GARDNER, a citizen of the United States, residing at Osage, in the county of Mitchell and State of Iowa, have invented certain new and useful Improvements in Clips, of which the following is a specification.

My invention relates to clips, and especially to that class of clips adapted for holding together paper sheets and the like.

The object of my invention is to provide a clip made of sheet metal covered on one side with a coating of adhesive adapted for adhesion to papers and the like, and to be bent or folded to retain the papers in position.

It is well known that difficulty is experienced in gluing a metal surface to papers and the like for the reason that a material which will adhere readily to papers will not adhere to the metal.

It is a further object of my invention to so prepare the metal that the adhesive material will readily adhere to the surface.

With these and other objects in view the present invention consists in the combination and arrangements of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a view in elevation of a sheet of metal roughened for the receipt of adhesive material. Fig. 2 is an end view of the sheet of metal shown at Fig. 1. Fig. 3 is an end view of the metal sheet showing one coating of adhesive thereon. Fig. 4 is an end view of the metal sheet showing two coatings of adhesive thereon. Fig. 5 is a view in elevation of a sheet of metal with a portion only of its surface roughened for the receipt of adhesive. Fig. 6 is an end view of the sheet shown at Fig. 5. Fig. 7 is an end view of the sheet shown at Fig. 5, with two coatings of adhesive applied to the portion of the surface which is roughened. Fig. 8 is an end view similar to Fig. 4, with a fabric covering a portion of the adhesive surface. Figs. 9, 10, 11, 12, 13, and 14 show some of the various forms in which my improved clip may be made. Fig. 15 shows the end of an envelop to exhibit some of the methods of using my improved clip. Fig. 16 is a fragmentary view of several sheets of paper held together by one of my improved clips, which is another method of using.

Like characters of reference designate corresponding parts throughout the several views.

In the preferred embodiment of my invention I take a sheet of metal 1, from which a number of my improved clips may be cut, as on the lines 2 2, and roughen one surface with an abrading material or in any approved manner. Upon the roughened surface is spread a coating, preferably composed of water, dextrin, acetic acid, glycerin, and sulfate of aluminium. The proportions which I prefer to use are as follows: Water, fifty-six per cent.; dextrin, sixteen per cent.; acetic acid, eight per cent.; glycerin, sixteen per cent., and sulfate of aluminium, four per cent. After applying a coating of the said composition I thoroughly dry such coating and then apply upon the said coating a second coating of the same composition.

For some purposes it is found desirable to roughen but a portion of the surface of the sheet 1, as shown at Figs. 5 and 6, and to apply to the said roughened surface two coatings of the adhesive composition, as shown at Fig. 7, thereby rendering but a portion of the clip adhesive. It is also found desirable at times to cover a portion of the adhesive surface with paper or other fabric, as shown at Fig. 8, accomplishing thereby a result similar to coating but a portion of the surface with adhesive.

My improved clip may be made in any desired form, some of which are shown in Fig. 9 to 14, inclusive.

I have shown at Fig. 15 two of my clips, as 6 and 7, secured by their adhesive to the flap 8 of an envelop, and the clip 7 is shown as it will appear bent about the edge. I have also shown a clip 9 secured to the envelop by its adhesive and passed through an eyelet 10 in the flap 8 and bent to retain the flap in a closed position. The said clip may also be used to close the flap of an envelop, as at 11, by adhering to both the envelop-body and the flap. I have illustrated at Fig. 16 another method of using my improved clip, wherein the clip is secured to the corner of a sheet of paper and other sheets being placed thereon. The corner of the sheets and the attached clip are rolled, as shown at 12.

While I have given above the preferred ingredients and their proportions for the adhesive coating applied to my clip, it is found de-



sirable to vary the proportions for use in different temperatures and localities, and it is even found desirable to omit some of the ingredients for accomplishing the same or similar results.

While I have described my process of making my clip as roughening a sheet from which the clips are cut, it is obvious that the clips may be cut first and roughened afterward.

While I have found it desirable to apply two coatings of the adhesive material for the reason that the first coating applied and dried is not so readily affected by the moisture applied, it is obvious that a single coating only may be used.

It will be understood that the thickness of the several materials of coating is greatly exaggerated in the drawings for clearness of illustration.

Having thus described my invention, what I claim as novel, and desire to secure by Letters Patent, is—

1. A clip for holding papers and the like, comprising a piece of sheet metal having a coating of adhesive on its surface.

2. A clip for holding papers and the like, comprising sheet metal having its surface

roughened and on the roughened surface a coating of adhesive.

3. A clip for holding papers and the like comprising a strip of flexible sheet metal having its surface roughened and on the roughened surface a coating capable of becoming adhesive by the application of moisture.

4. A clip for holding papers and the like comprising a strip of sheet metal having its surface roughened and on the roughened surface a coating capable of adhering thereto and on the coating a second coating capable of becoming adhesive by the application of moisture.

5. A clip for holding papers and the like comprising a strip of flexible metal having a roughened surface, on the roughened surface a coating of adhesive and a fabric secured thereto by the adhesive and covering a portion of the adhesive surface.

In testimony whereof I affix my signature in presence of two witnesses.

CLARK E. GARDNER.

Witnesses:

CHARLES F. GARDNER,  
WILLIAM C. GARDNER.