

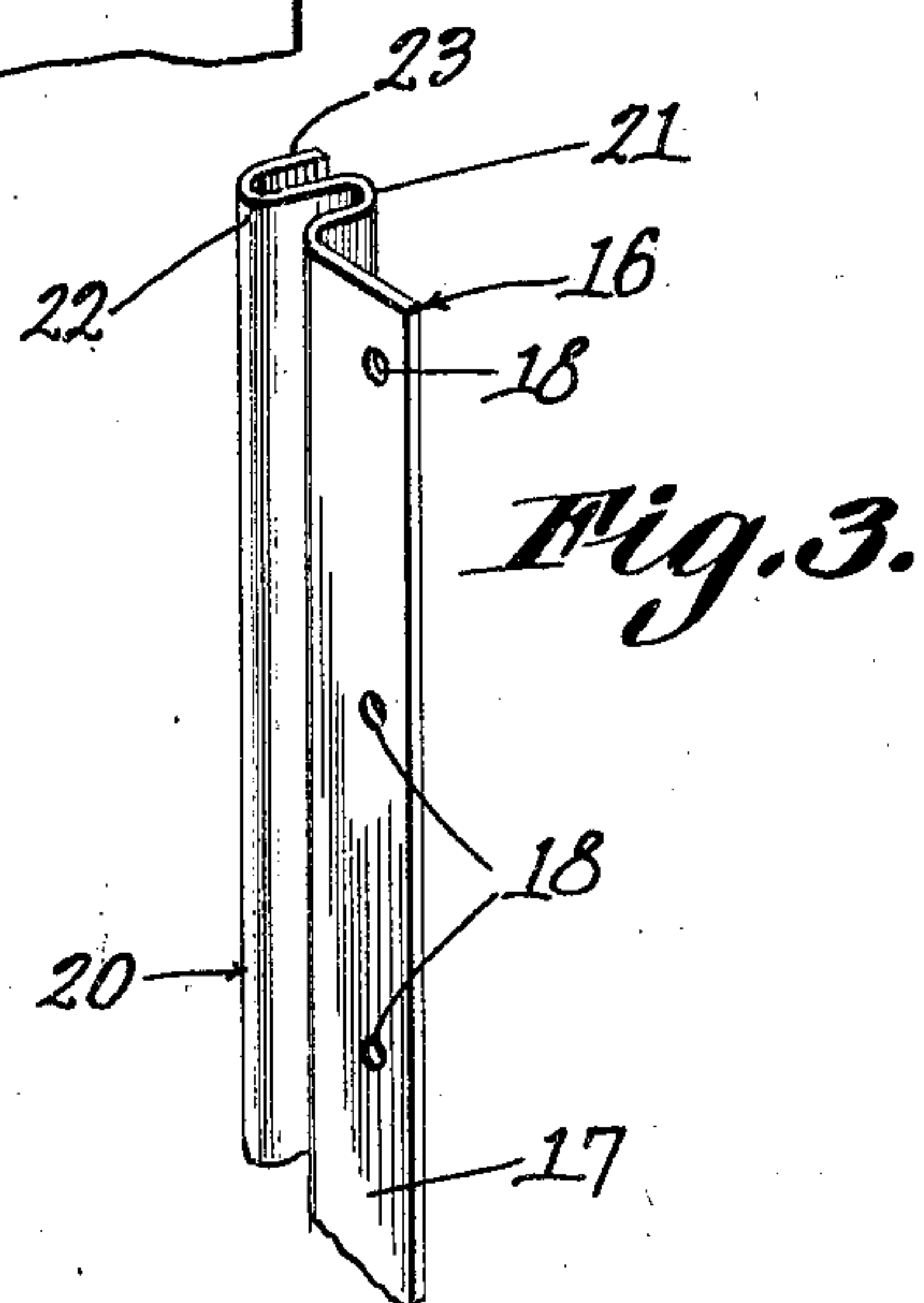
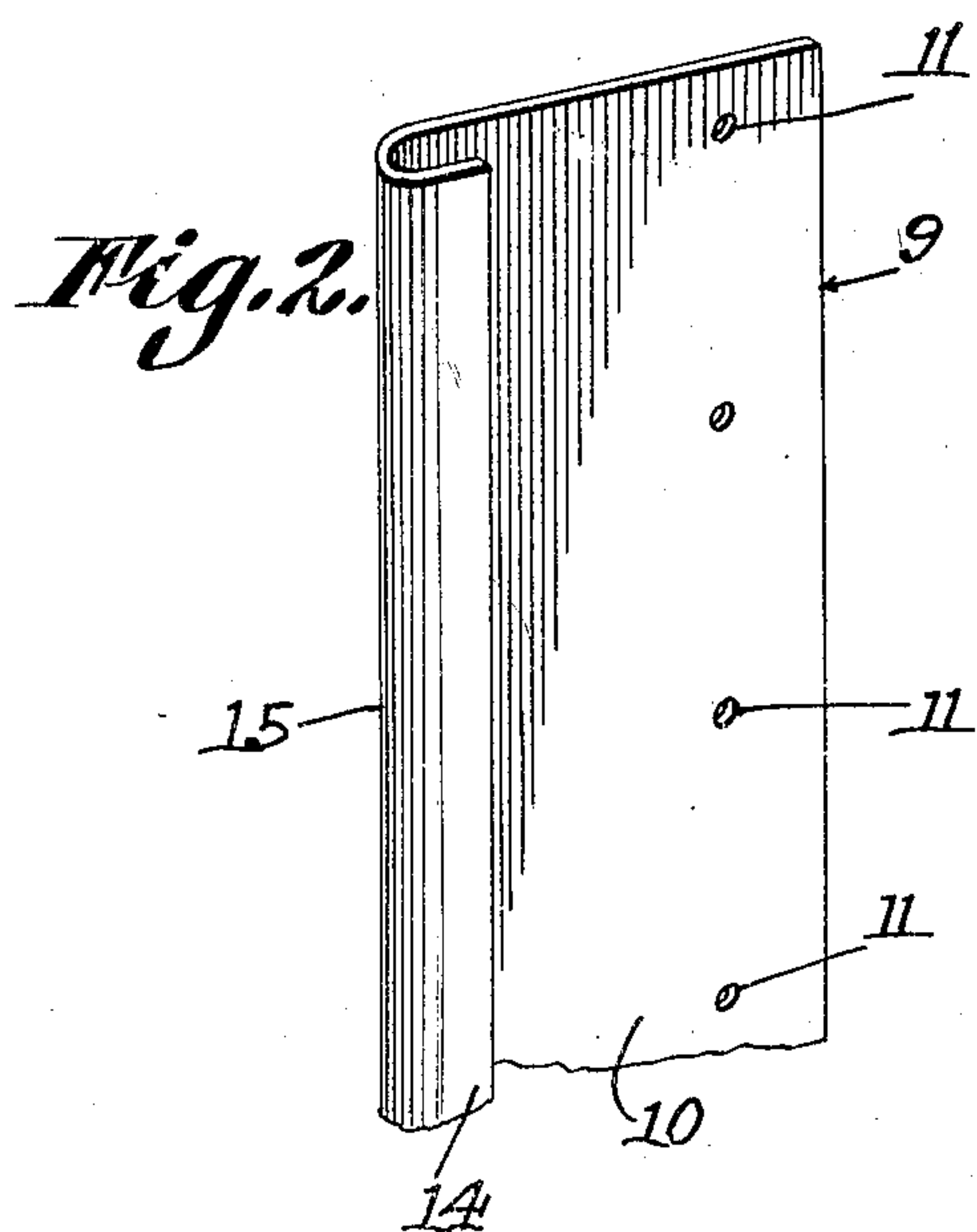
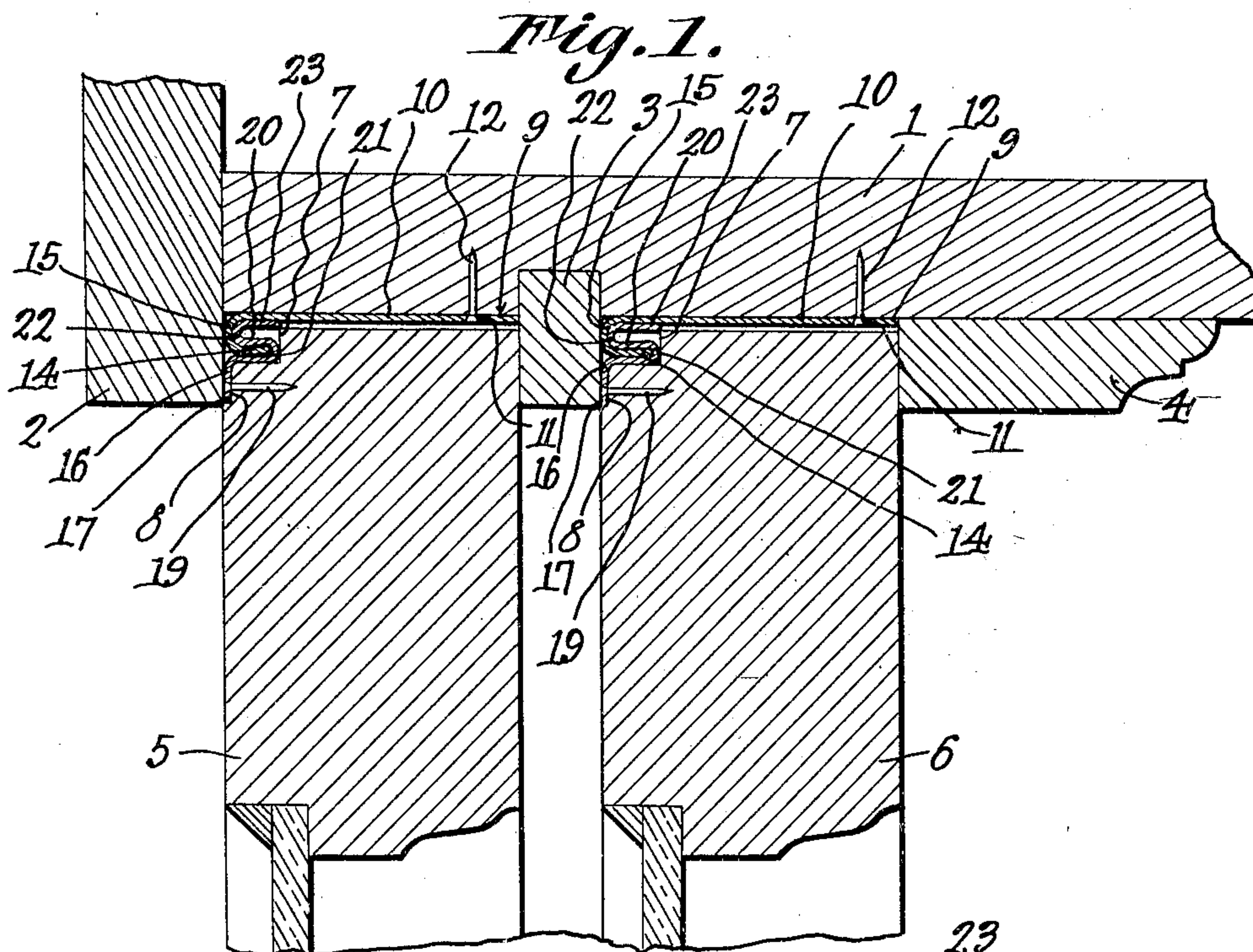
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WEATHER STRIP

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## UNITED STATES PATENT OFFICE.

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## WEATHER STRIP.

Application filed September 7, 1926. Serial No. 134,017.

This invention aims to provide a novel means whereby air will be prevented from flowing between a window sash and a window frame, the device being so constructed that it will be well adapted to withstand severe and long continued use.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings:—

Figure 1 shows in horizontal section, a window frame and a pair of window sashes equipped with the device forming the subject matter of this application;

Figure 2 is a perspective view showing one of the weather strips; and

Figure 3 is a perspective view showing the other of the weather strips.

The numeral 1 marks the vertical stile of a window frame, the window frame including a face plate 2, a guide piece 4, and a parting strip 3 between the face plate 2 and the guide piece 4. The construction above alluded to may be described briefly as a stile provided with outstanding guide members. The sash 5 is slidable between the face plate 2 and the parting strip 3. A sash 6 is slidable between the parting strip 3 and the guide piece 4. There is a recess 7 in that corner of the sash 6 which is adjacent to the parting strip 3. There is a similar recess in that edge of the sash 5 which is adjacent to the face plate 2. The sashes 5 and 6 are provided with shallow superficial seats 8 which communicate with the recesses 7.

The numeral 9 marks a resilient metal strip having a wide wing 10 provided with openings 11 adapted to receive securing elements 12 whereby the strip 9 may be secured to the

stile 1 along one edge of the sash. The wing 10 has a hook-shaped bead 14 including a bend 15.

A metal strip 16, made of resilient metal, is provided, the strip including a flange 17 having openings 18 adapted to receive securing elements 19 whereby the strip 16 is secured to the sash 6, the flange 17 being located in the seat 8. The flange 17 is provided with a sigmoidal portion 20 located in the recess 7, the said sigmoidal portion 20 embodying an inner trough-shaped part 21 and an outer trough-shaped part 22, the trough-shaped part 22 being provided with a lip 23.

The hoop-shaped bead 14 receives the part 22 of the sigmoidal portion 20 closely but slidably, and the free edge of the bead 14 is received closely but slidably in the part 21. The wing 10, owing to its resiliency, bears closely but slidably on the lip 23. The bend at 15 bears slidably against the parting strip 3. The construction above described is carried out in connection with the sash 5, aside from the fact that the bend at 15 bears against the face plate 2.

The construction of the device is such that it will withstand wear and be extremely effective to keep out the weather and turn drafts of air.

What is claimed is:—

In a device of the class described, a weather strip embodying a wing having a hook-shaped bead, and a weather strip embodying a flange having a sigmoidal portion including an inner trough-shaped part, and an outer trough-shaped part having a lip, the outer trough-shaped part fitting closely and slidably in the hook-shaped bead, and the free edge of the hook-shaped bead fitting closely and slidably in the inner trough-shaped part, the lip being disposed at right angles to the flange and being in slidable contact with the wing, the interfitting portions of the sigmoidal portion and the hook-shaped bead being parallel, whereby they may be separated transversely without distorting either of them.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

FRANK E. CALDWELL.