

⑫ **EUROPEAN PATENT APPLICATION**

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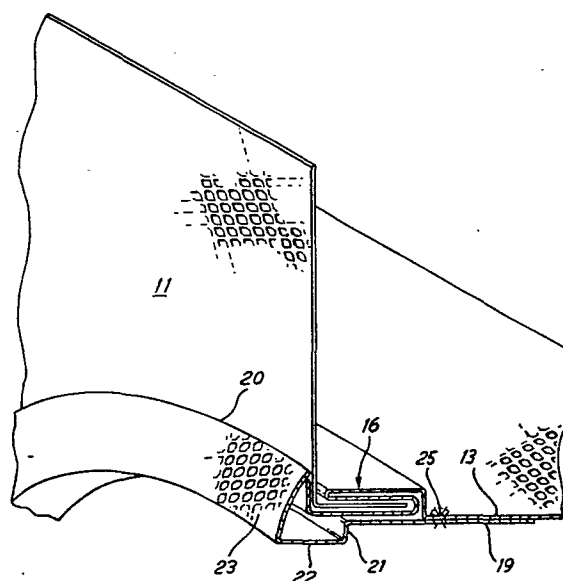
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⑤④ **Arch formers.**

⑤⑦ An arch former for use in building an arch has a perforated metal beading around the curved edge of the arch to provide a plaster stop both below and laterally of the joint at said curved edge.



This invention relates to an arch former for use in building arches.

A former which has achieved wide acceptance is described in our copending British patent application No. 45733/77 (1590298) and comprises an arch former comprising at least one pair of similarly shaped members made of expanded metal, each member having a curved wall to one edge of which is attached a vertical wall by bending and interlocking adjacent margins of the curved wall and vertical wall, the curved walls forming the ceiling of the arch and the vertical walls forming the corner pieces.

The interlocking of the margins was made in practice on a "Pittsburgh" lock jointing machine.

We have found that plasterers would prefer to have what is known as a "plaster stop" which gives the plasterer a rib at the corner of the joint which will stand proud of both adjacent surfaces viz. the vertical surface and the underneath curved arch surface. Such a projecting rib will serve to indicate depth of plaster and an edge to the plaster.

The object of the present invention is to provide such a rib in a manner which is relatively simple and cheap.

We tried various possibilities before arriving at the present invention. Thus we tried attaching wire to the curved edge by means of loops attached by welding but this was too time consuming and the wire had to be rolled to the exact curvature before welding. We tried also making a strip with two flanges for welding but it was necessary to cut V-shaped openings in the flanges to permit bending to the required curvature and this again was too time consuming. We further tried what is known as "edge beading " but this cannot be bent to a smooth curve.

We finally had the idea of the present invention which has proved highly satisfactory.

According to the present invention we provide as arch former having a vertical flat part provided with a recess having a curved edge and a curved part at right angles to the vertical part the two parts being joined together by a curved joint at said edge and an edge beading made of a strip of perforated sheet metal bent to a cross-sectional shape having a flange attached to the underneath curved surface of said curved part and provided with a beading that extends downwardly, laterally and upwardly so as to provide a plaster stop both below and laterally of the joint around said edge.

The strip is preferably expanded metal sheet that has been flattened. The entire former may be made of such sheet. The sheet may have 2.5 to 3.5 openings per centimetre and is

made from steel sheet, openings being punched, the sheet then being stretched and the sheet being finally flattened by passing through rollers or by other means.

The joint may be made by means of a Pittsburgh lock joint forming machine. The strip may be formed with its flange in a Pittsburgh seam machine which is normally used for flanging solid metal sheet for forming ducting, and has suitable flange bending wheels different from those used on a Pittsburgh lock joint forming machine.

The invention will be further described by way of example with reference to the accompanying diagrammatic drawings wherein:-

FIGURE 1 is a perspective view showing the general design of a four-part arch former; and

FIGURE 2 shows the fitting of one of the parts with the beading strip in accordance with the invention.

As shown in Figure 1 the former is made of four identical parts 10 each having a vertical flat wall 11 having a recess which has a curved lower edge 12 and a curved wall 13 at right angles to the vertical wall joined to the lower edge 2 by a Pittsburgh lock joint 16 (Figure 2).

A bead strip is formed on a Pittsburgh seam machine with a flange 19 and a beading 20. The beading 20 has a downwardly extending part 21, a laterally extending part 22, and an upwardly extending part 23.

The strip is arranged on the former so as to extend partly or wholly around the joint and the flange is spot welded at

25 to the part 13. The strip is then bent along the joint 16 and spot welded at intervals along the entire length of the joint.

The beading thus provides a depth A for vertical plaster and a depth B for underneath plaster while at the same time providing the plaster stop in both directions.

The strip also provides additional strength of the former which facilitates handling and transport.

The beading may be provided on either or both sides of the arch former.

CLAIMS:-

1. An arch former for use in building an arch comprising a vertical flat part provided with a recess having a curved edge and a curved part at right angles to the vertical part the two parts being joined together by a curved joint at said edge characterized by an edge beading (20) made of a strip of perforated sheet metal bent to a cross-sectional shape having a flange (19) attached (25) to the underneath curved surface of said curved part (13) and provided with a beading that extends downwardly (21) laterally (22) and upwardly (23) so as to provide a plaster stop both below and laterally of the joint around said edge.

2. An arch former as claimed in claim 1 having two said vertical parts with the curved part between them, all these parts and the edge beading being made of flattened "expanded" perforated metal sheet, the flange (19) being attached to the curved part (13) by spot welding (25).

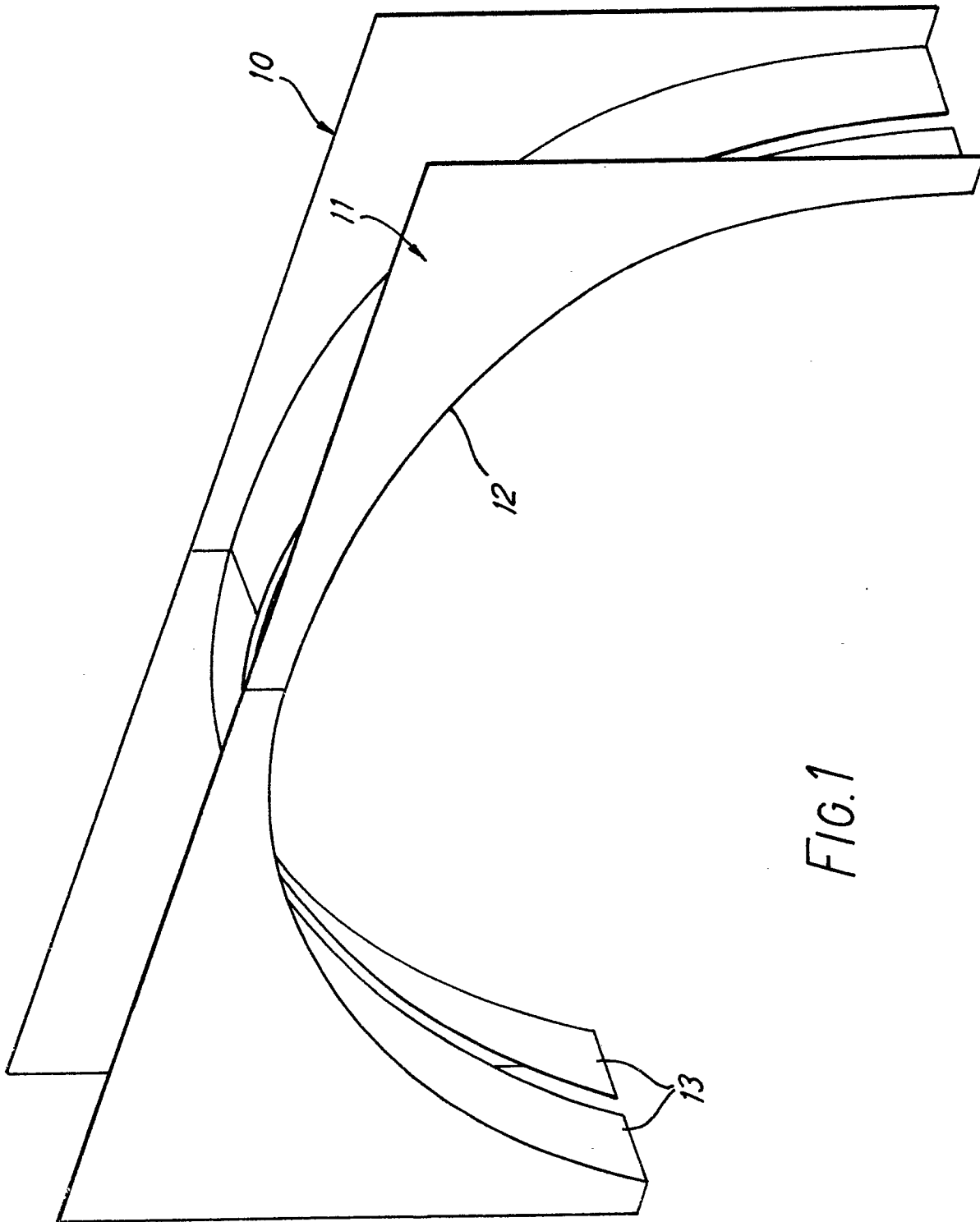


FIG. 1

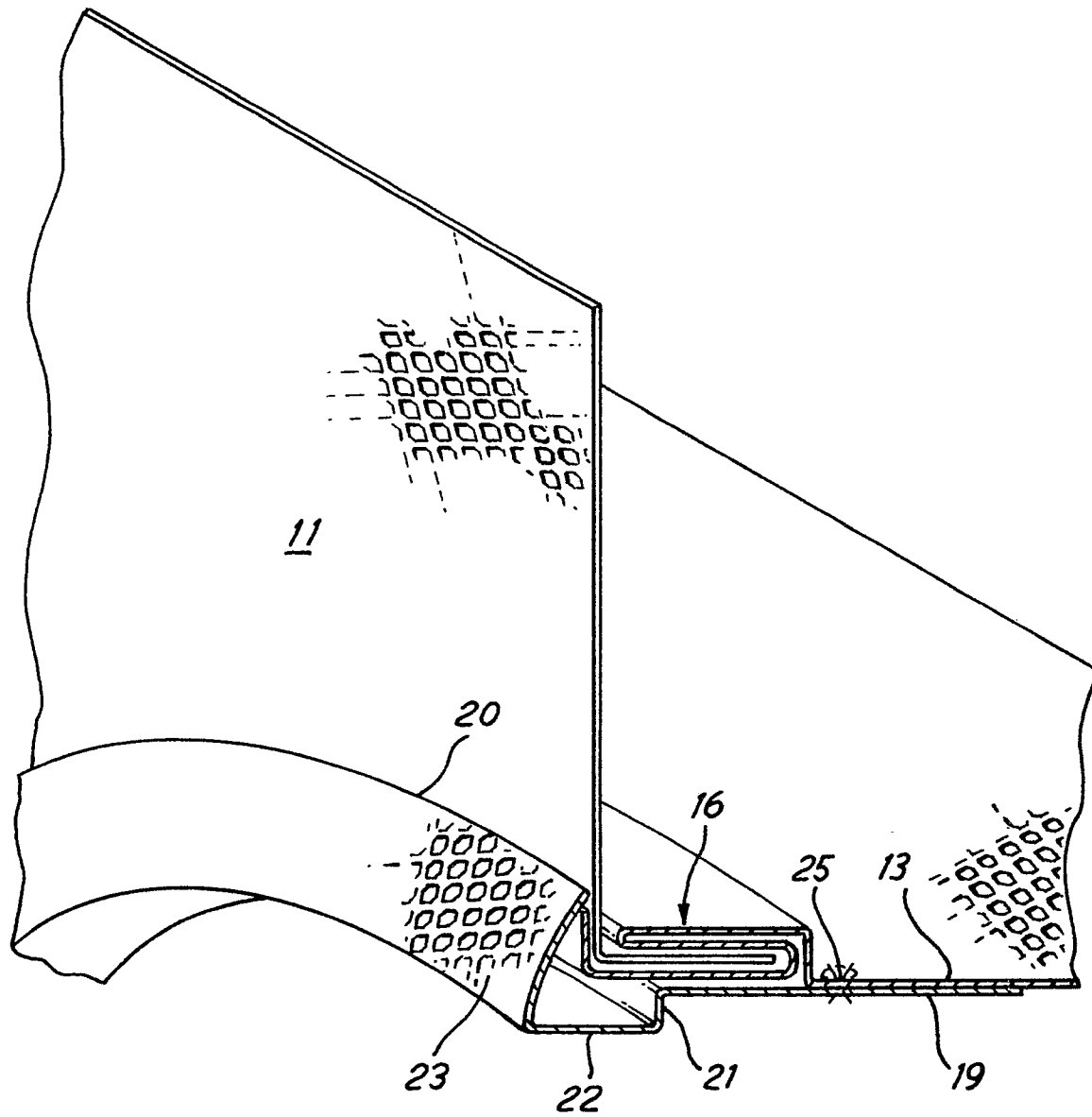


FIG.2