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1,961,838

BUILDING WALL

Filed March 21, 1932

FIG. 1

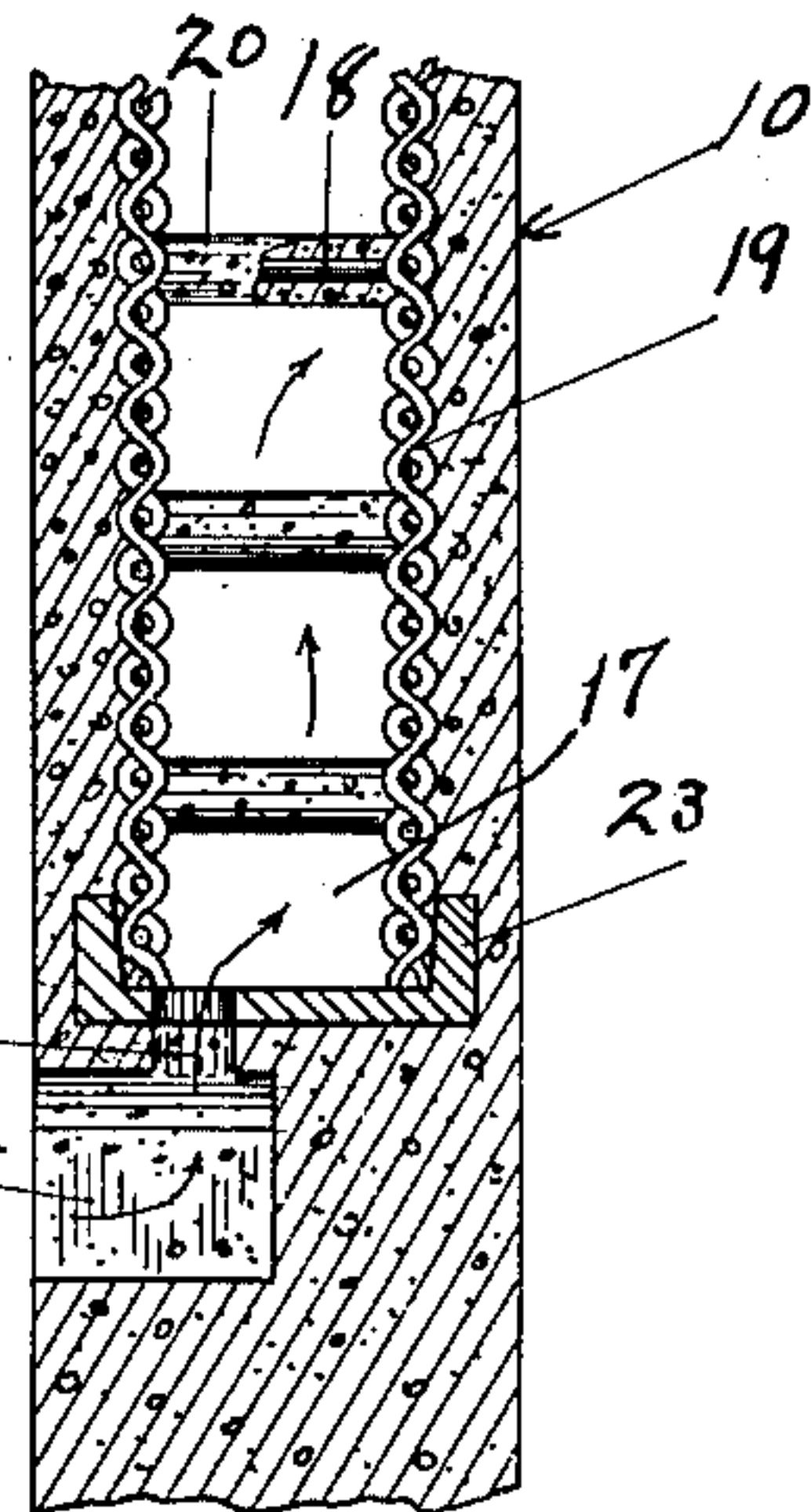
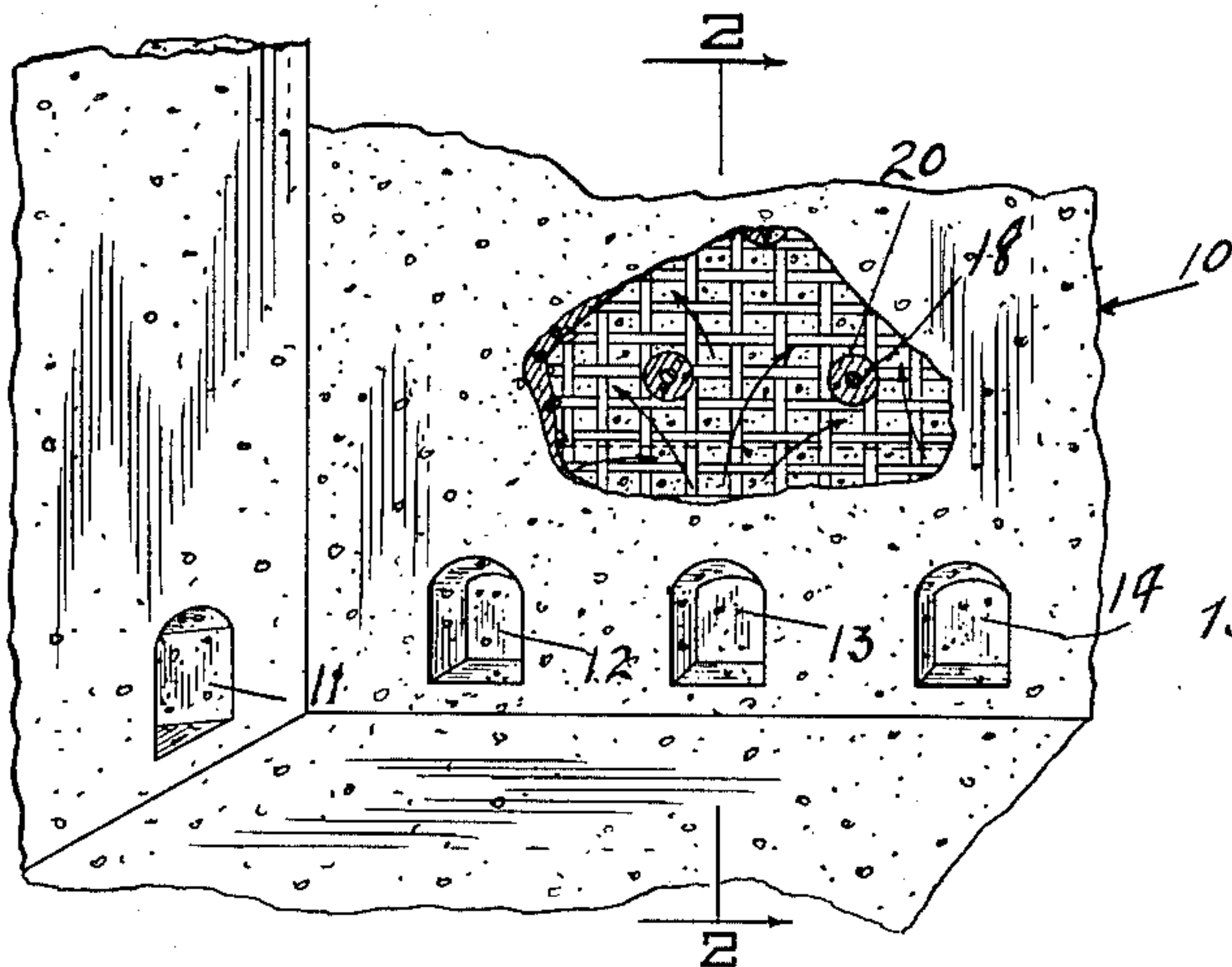


FIG. 2

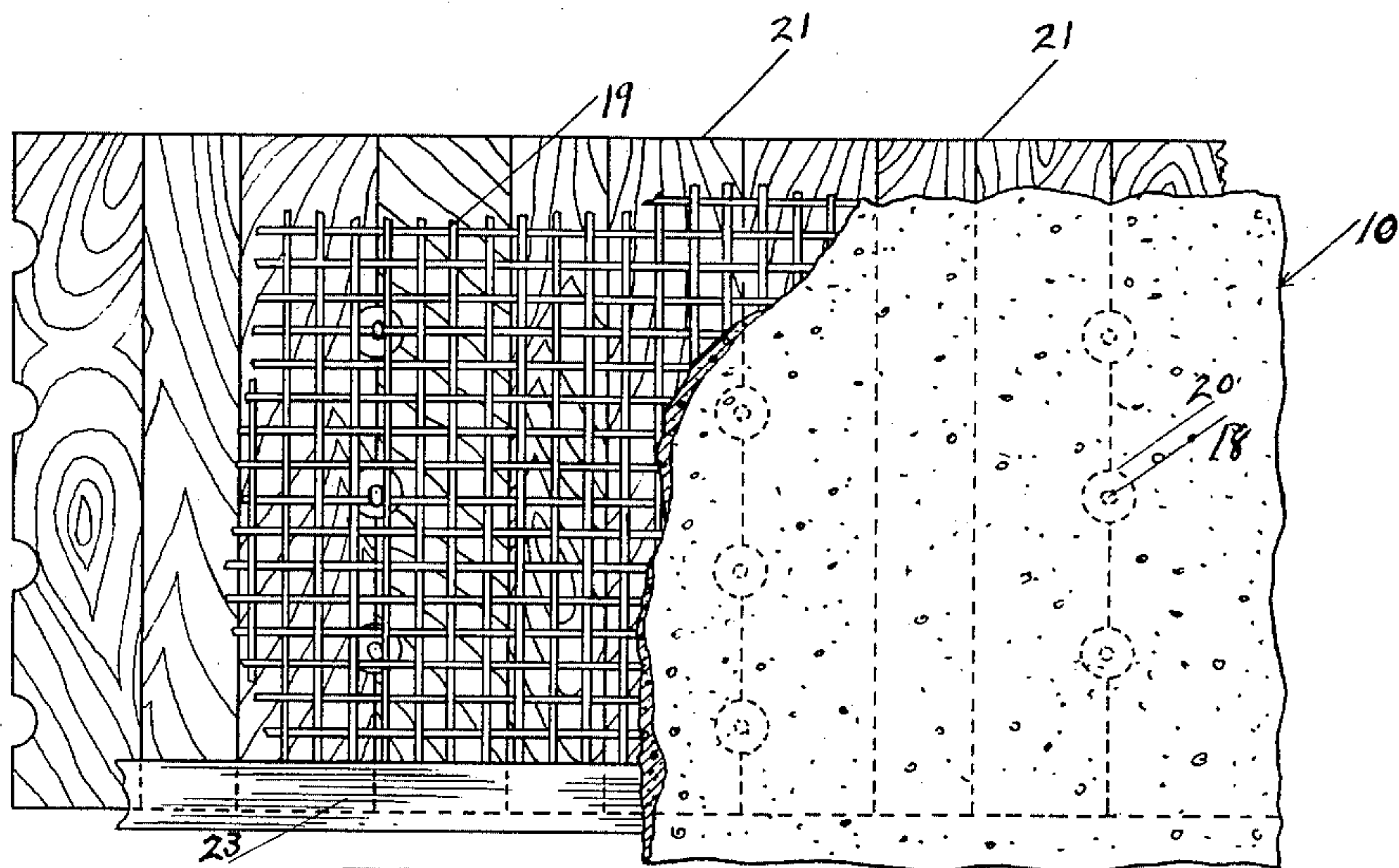


FIG. 3

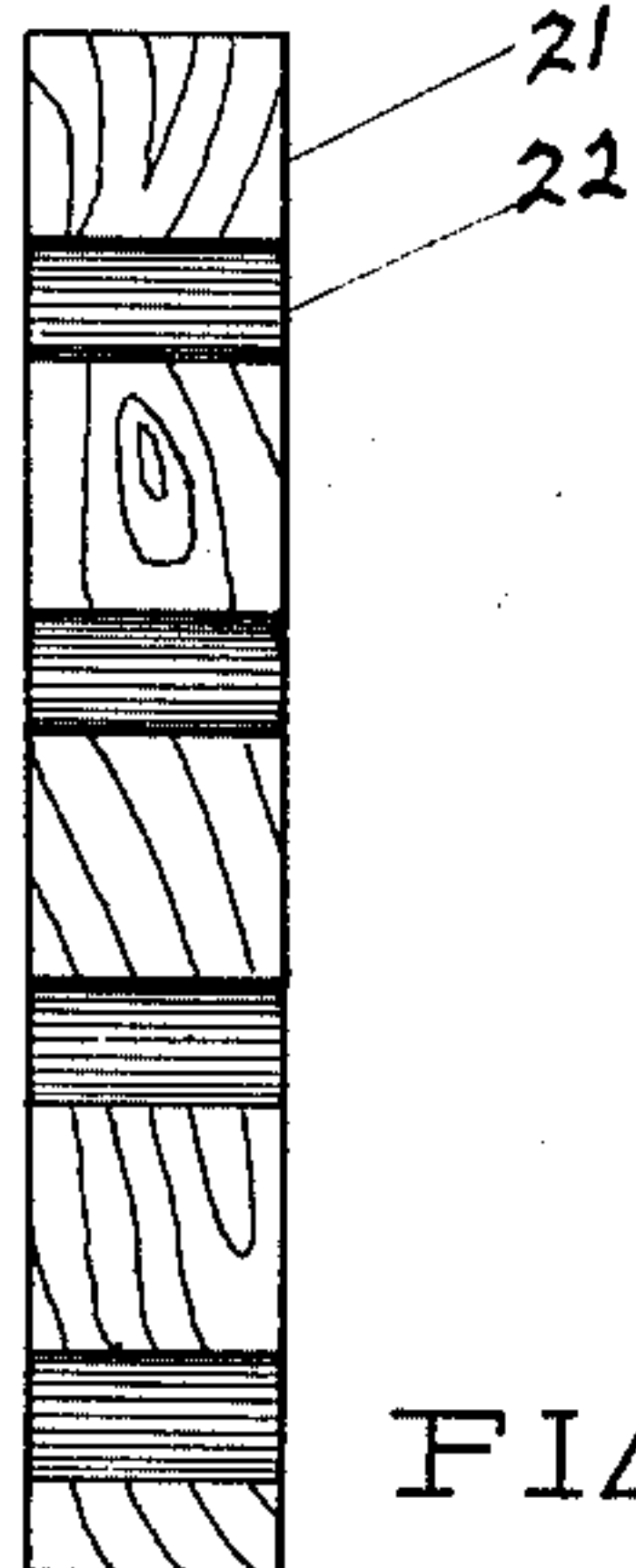


FIG. 4

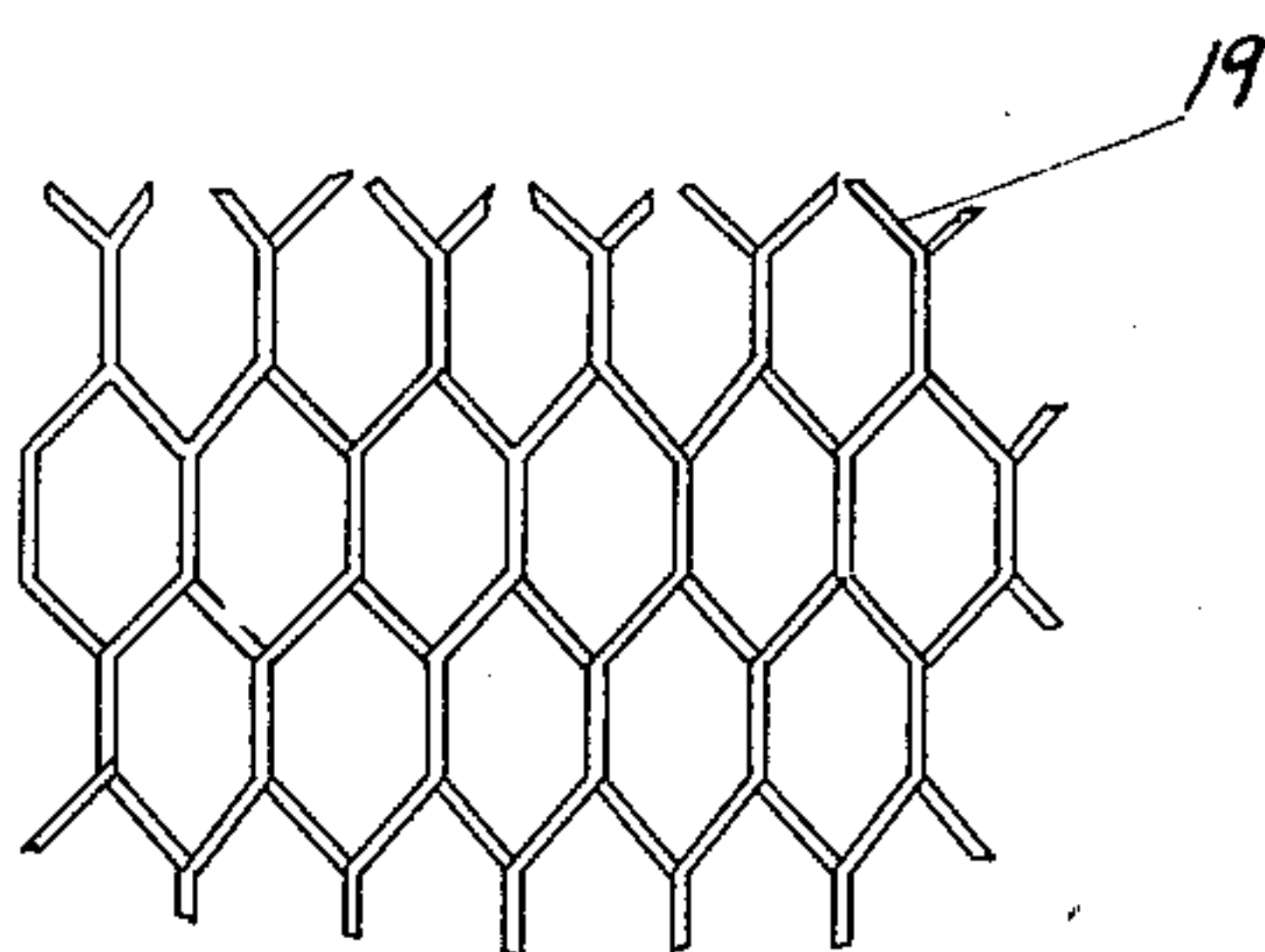


FIG. 5

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1,961,838

BUILDING WALL

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2 Claims. (Cl. 72-46)

The present invention relates generally to new and useful improvements in methods of building construction but more particularly to constructing walls or partitions of the ordinary type buildings.

The primary object of the present invention is to provide a building wall or partition that may be ventilated either by hot or cold air originating in the enclosure by any suitable means, due to the air space between its walls.

Another object of the present invention is to provide a building wall structure that is cheap to construct and that is also durable and strong.

Still another object of the invention is to provide a wall structure that will retain heat in winter and cold in summer time affording its occupants comfortable living quarters at all times.

Still another object of the invention is to provide a wall structure comprising a concrete covered metal lath and having a plurality of supports or separators throughout adding strength to its side walls.

Still another object of the present invention is to provide a wall structure whereby the heat may enter from the interior of the structure and circulate throughout the entire wall affording a layer of heat between the inner and outer sections of the wall of the structure.

Still another object of the invention is to provide a wall structure that may be rapidly constructed, and that is sound and earthquake proof.

Still another object of the invention is to provide a wall structure that may be constructed by the use of a wooden form to shape the wall, later removing the form or matrix for further use.

Other objects and advantages will become apparent with reference to the subjoined specification and the accompanying one sheet of drawing:

Figure 1 is a fragmentary perspective view of the structure illustrating the interior of the building showing the means for circulating the air between the reinforced walls thereof.

Figure 2 is a sectional view illustrating the means for separating the metal lath and concrete also the means for circulation of air or heat, the view being taken on the line 2-2 in Figure 2.

Figure 3 is a fragmentary front elevation illustrating the form or matrix with the metal lath and concrete broken away.

Figure 4 is an end elevation of a portion of the form or matrix showing the recesses used to cast the wall separators or supports.

Figure 5 is a front elevation of a fragment of

the metal lath used in the construction of the wall structure.

Referring more particularly to the drawing in which the preferred form of the invention is illustrated my improved form of wall structure comprises generally the wall 10 having the inlets 11, 12, 13, and 14 whereby the air is forced through the opening 16 and circulated into the air chamber 17 provided between the walls of the structure 10.

The walls of the structure 10 are provided with separators 18 which are fastened to the metal lath 19 and are reinforced with cement 20, as clearly disclosed in Figure 2.

The wooden form 21 is provided with cavities 22 which are used to mold the concrete 20 about the separators 18, the angle iron 23 comprises a means for supporting the metal lath 19 before the concrete is put into place.

What I claim and desire to secure by Letters Patent of the United States is the following:—

1. In a building structure, hollow walls for said structure embodying a channeled supporting member, spaced metal lath sections supported in said channel, spacers arranged between said lath sections to hold the same in spaced relation, a plurality of horizontally disposed air inlet openings formed below said channel, and additional openings communicating with said inlet openings and extending through said channel and into the space between said walls.

2. In a building structure, said structure embodying concrete walls providing an air space therebetween, a channeled supporting member, metal lath sections secured to the sides of the channel and extending upwardly therefrom, spacers arranged between said lath sections to hold the same in spaced relation, a plurality of horizontally disposed air inlets formed inside the structure in the wall below said channel, and vertically disposed inlet openings communicating with said horizontal openings and the air space between said walls to provide means for affording a free circulation of air therebetween.

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