J. B. Cornell.

Sheet Metal Lath.

No. 20,629. Patented Jun. 22, 1858.

Fig. 2.

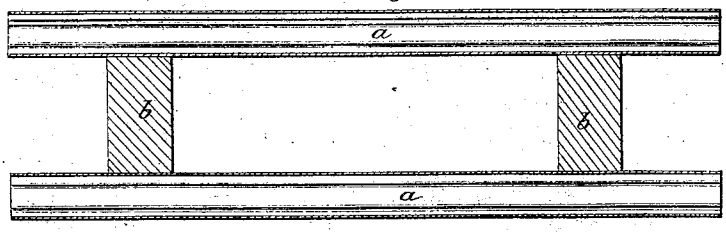


Fig. 3.

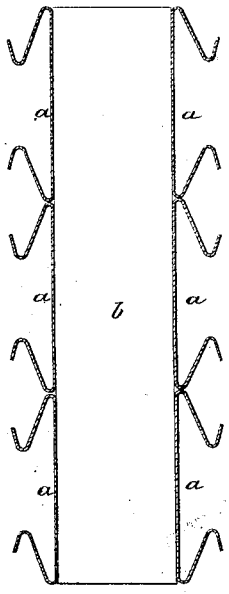
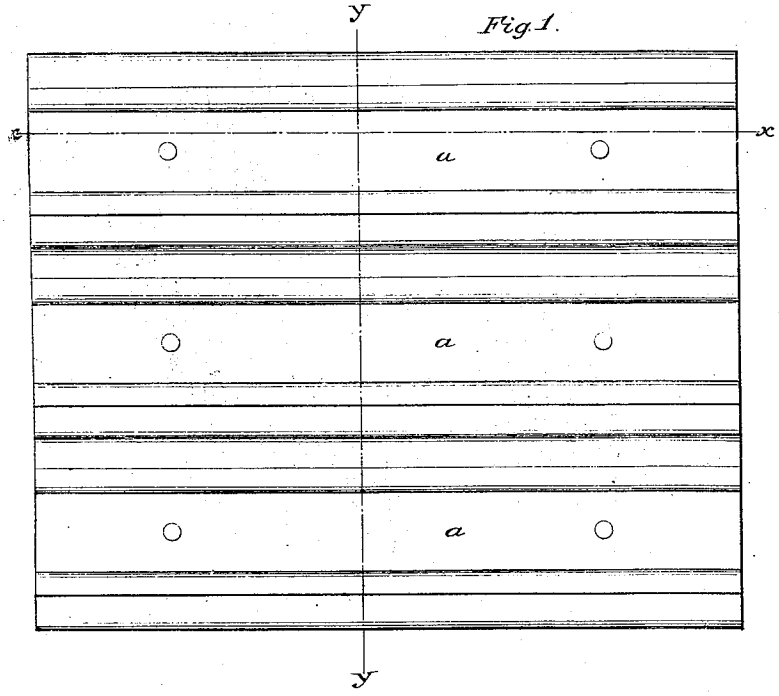


Fig. 1.



THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

JOHN B. CORNELL, OF NEW YORK, N. Y.

IMPROVEMENT IN METALLIC LATHS.

Specification forming part of Letters Patent No. **20,629**, dated June 22, 1858.

To all whom it may concern:

Be it known that I, JOHN B. CORNELL, of the city, county, and State of New York, have invented a new and Improved Plaster-Supporting metallic surface to be used in the construction of fire-proof and burglar-proof plastered partitions; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification—

Figure 1 being a side view of a series of peculiarly-curved sheet-metal sections *a a*, combined with a couple of uprights *b b* in such a manner as to form my closely-united plaster-supporting metallic surface; Fig. 2, a horizontal section in the line *x x* of Fig. 1, and Fig. 3 a vertical section in the line *y y* of Fig. 1.

The edges of the individual sections *a a* are of such a shape that when the said sections are combined with their supporting uprights or beams they will form a double series of inner and outer recesses for the reception and retention of the cement or plaster, or both, which may be combined therewith to form a fire-proof partition or ceiling.

Each edge of each sheet-metal section *a* has a double curve, viz: longitudinal portions thereof are curved first inwardly and then outwardly, as represented in Fig. 3, thereby enabling the inwardly-inclining portions of each section to form a plaster-retaining recess between them, while the outwardly-inclining extreme edges of each pair of sections, when they are combined with their supporting uprights or beams, form between said edges another plaster receiving and retaining recess.

The first advantage resulting from this my improved form of the sections which compose my improved plaster-supporting metallic surface is that no outwardly-flaring recesses for the reception and not the retention of the plaster are formed by the combination of said sections with their supports, and the second advantage resulting from said improvement consists in the fact that the series of recesses which are formed in the central portion of each section may first be partially filled with plaster-of-paris to prevent the passage of heat, and then the remaining portions of said recesses, together with the outer series of recesses, (between the outer edges of each pair of sections,) may receive and securely retain the other necessary coatings of plaster to finish the partition or ceiling.

What I claim as my invention, and desire to secure by Letters Patent, is—

Forming an improved plaster-supporting metallic surface of a closely-united series of sheet-metal sections whose edges are first inclined inwardly and then outwardly into substantially the shape shown in the accompanying drawings, and for the purpose herein set forth.

The above specification of my improvement in continuous sheet-metal-lath surfaces signed this 8th day of March, 1858.

JOHN B. CORNELL.

Witnesses:
THOS. CROCKER,
A. A. JAYNE.