

J. KAHN.
 RIBBED EXPANDED METAL.
 APPLICATION FILED FEB. 2, 1910.

987,374.

Patented Mar. 21, 1911.

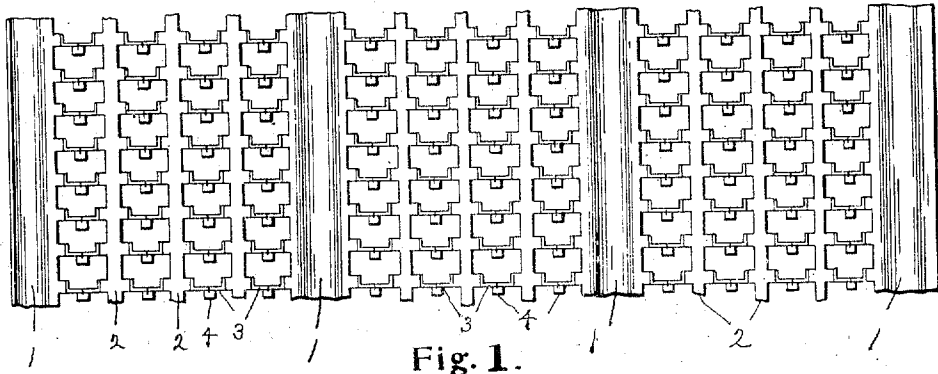


Fig. 1.

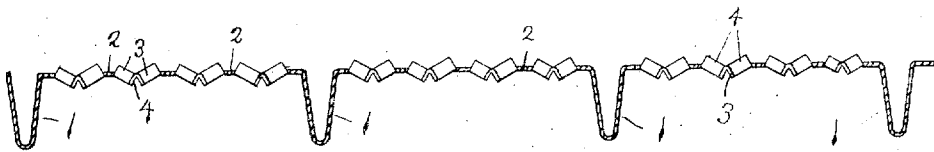


Fig. 2.

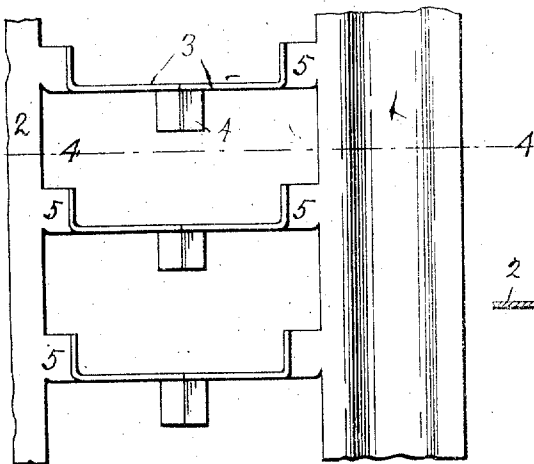


Fig. 3.

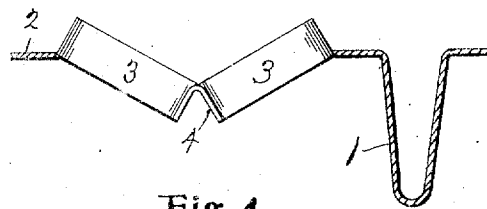


Fig. 4.

Witnesses

O. B. Baenziger.
Ed. M. Brown.

Inventor

Julius Kahn.
Edward M. Pagelsen.
 Attorney

UNITED STATES PATENT OFFICE.

JULIUS KAHN, OF DETROIT, MICHIGAN, ASSIGNOR TO TRUSSED CONCRETE STEEL COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

RIBBED EXPANDED METAL.

987,374.

Specification of Letters Patent.

Patented Mar. 21, 1911.

Application filed February 2, 1910. Serial No. 541,439.

To all whom it may concern:

Be it known that I, JULIUS KAHN, a citizen of the United States, and a resident of Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Ribbed Expanded Metal, of which the following is a specification.

This improvement relates to expanded sheet-metal for supporting long-span slabs of concrete and plaster, and the object of this invention is to provide an expanded sheet-metal with parallel strengthening ribs and strands of entire metal extending the full length of the sheet to give to the sheet a maximum tensile strength.

In the Patent No. 920,152, dated May 4th 1909, to Kane, a process is set forth for forming this ribbed expanded-metal.

In the accompanying drawings, Figure 1 is a plan view of a portion of a sheet of this expanded metal. Fig. 2 is an end view of the same. Fig. 3 is a view of a small section of the same on a greatly enlarged scale. Fig. 4 is a cross section on the line 4-4 of Fig. 3.

Similar reference characters refer to like parts throughout the several views.

In the metal lath shown in the drawings, a series of longitudinal ribs or beams 1, generally U shaped in cross section, and longitudinally extending flat strands 2 are joined by the ties 3 which connect half way between the longitudinal members by means of V shaped saddles 4. The ends of the ties 3 bend at right angles and connect to the inclined projections 5 on the longitudinal members and the metal of these ties is at right angles to the plane of the sheet. All the parts are integral with each other. The ribs 1 are so formed that the outer rib of one

sheet will fit into the rib of the next sheet so that continuity of structure is attained. As the ribs and bands are near each other, there is no possibility of any portion of the sheet losing its form because of longitudinal stresses.

Because of the extreme stiffness resulting from the ribs and strands, this expanded metal is adapted for use as metal-lath where the spans between studdings or joists is so great that the usual flat expanded-metal sags out of alinement.

Having now explained my improvements, what I claim as my invention and desire to secure by Letters Patent is:—

1. An expanded metal structure comprising a series of strands of unequal widths, all parallel with each other and having a narrow strand between each two wider strands, and integral ties connecting adjacent strands, all the ties between adjacent strands being parallel to each other, the wider strands being substantially U-shaped in cross section.

2. An expanded metal structure comprising a series of strands of unequal width, all parallel with each other, the wider strands alternating with pluralities of narrow strands, and integral ties connecting adjacent strands, all the ties between adjacent strands being parallel to each other, the wider strands being substantially U-shaped in cross section.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JULIUS KAHN.

Witnesses:

MINNIE K. KENNEDY,
ELIZABETH M. BROWN.