A. J. HALL.

STAIR LANDING OR PLATFORM.

APPLICATION FILED SEPT. 23, 1919.

1,423,481. Patented July 18, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

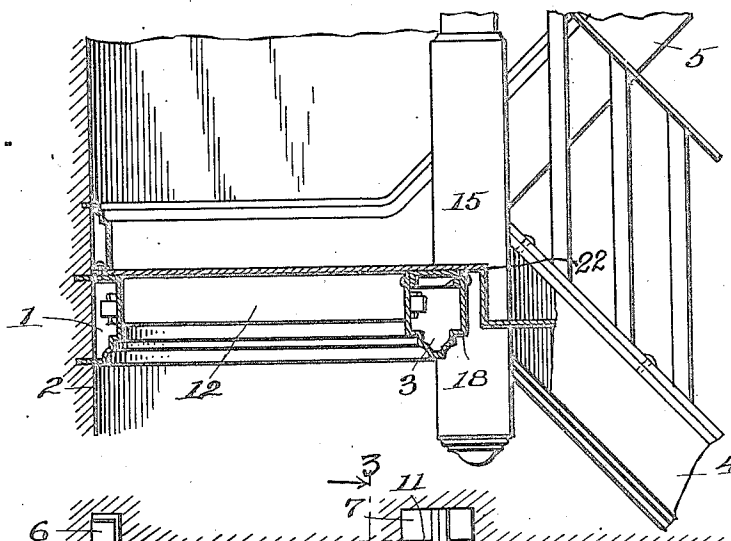
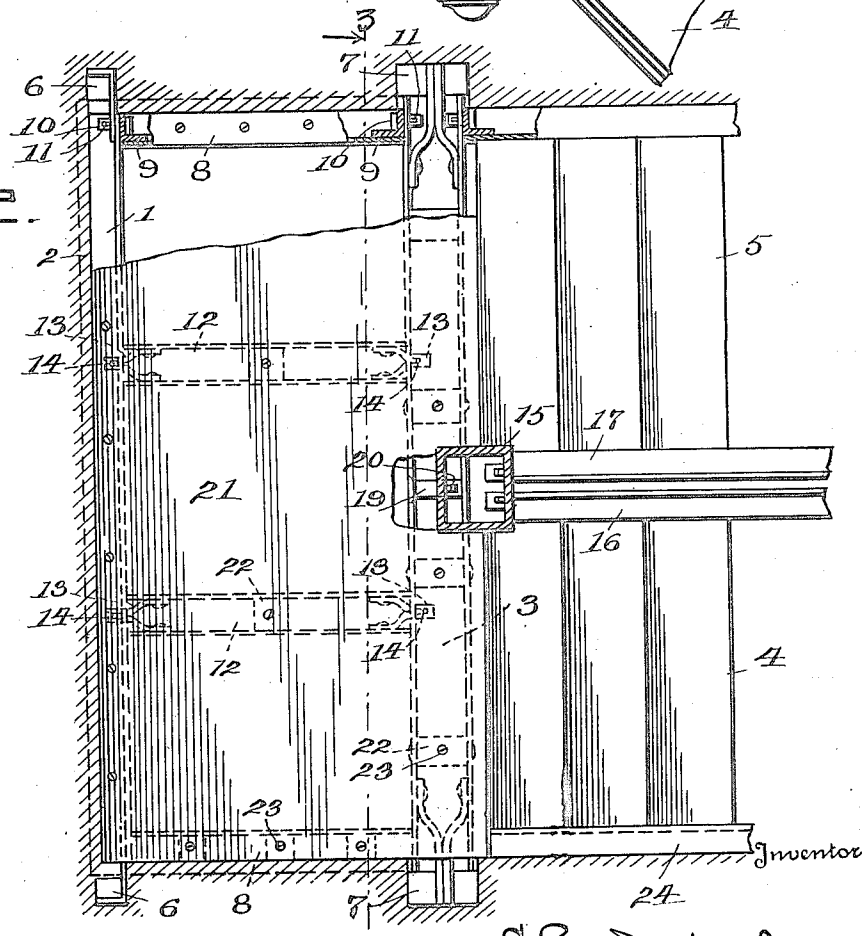


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

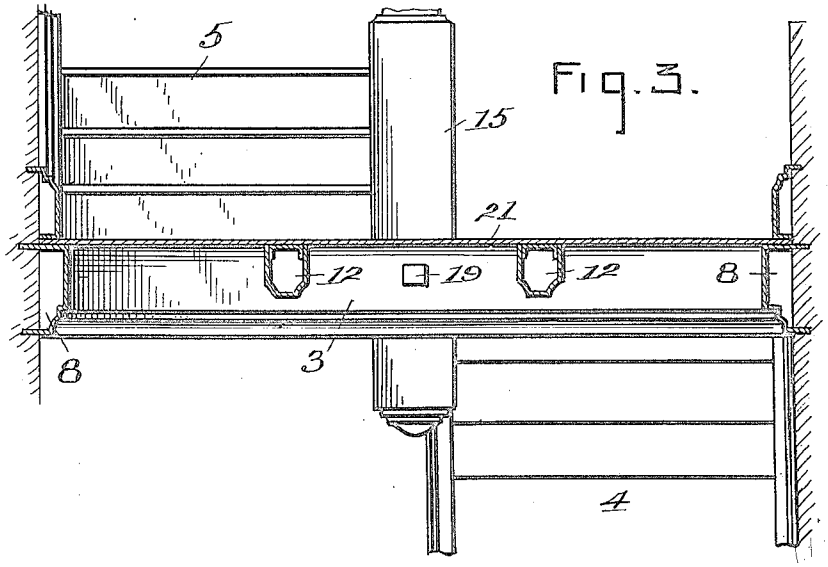
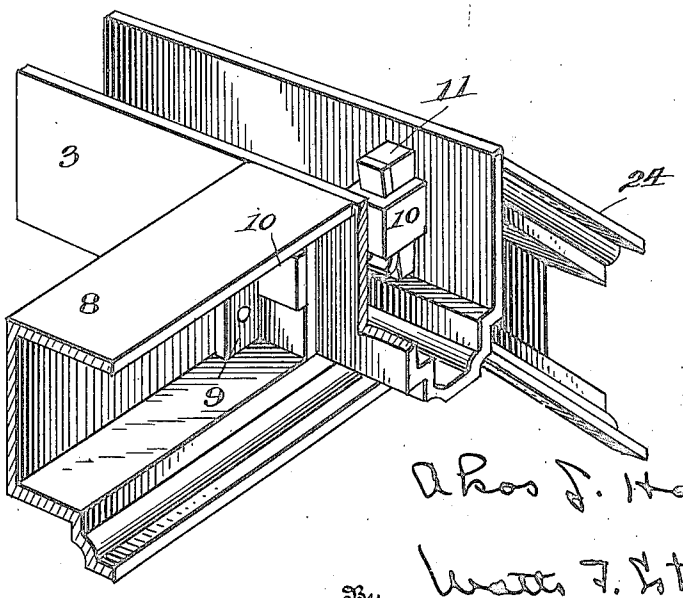


Fig. 4.



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UNITED STATES PATENT OFFICE.

AKOS J. HALL, OF CLEVELAND, OHIO.

STAIR LANDING OR PLATFORM.

1,423,481. Specification of Letters Patent. Patented July 18, 1922.

Application filed September 23, 1919. Serial No. 325,612.

To all whom it may concern:

Be it known that I, AKOS J. HALL, a citizen of the United States, residing at the city of Cleveland, in the county of Cuyahoga, State of Ohio, have invented new and useful Improvements in Stair Landings or Platforms, of which the following is a specification.

This invention relates to an improvement in stair landings or platforms, and the object is to construct the frame work and platform of sheet metal and to fasten the various parts in a simple manner without the use of rivets, bolts and nuts, thereby eliminating the great cost in time and material in assembling a structure of this character.

The invention consists of certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claims.

In the accompanying drawings;

Figure 1 is a view partly in elevation and in section showing the platform at the intersection of two stairways;

Figure 2 is a top plan view with a portion of the platform broken away to disclose the supporting structure.

Figure 3 is a longitudinal vertical sectional view through the platform taken on line 3—3 of Figure 2; and

Figure 4 is a perspective view showing the manner of connecting a crossbeam and stringer to the front longitudinal beam.

The platform and its supporting structure are made of sheet metal, and 1 represents a channel beam, the longitudinal edges of which are adapted to be received in the plastered portion of the wall 2.

A U-shaped channel beam 3 is located at the head of the lower stairway 4 and at the foot of the upper stairway 5. At the ends of the channel beams 1 and 3 are angular extensions 6 and 7 respectively which are adapted to be embedded within the brickwork of the wall for securely anchoring the beams.

End channeled cross beams 8, 8 are provided with angle iron plates 9 which are provided with openings communicating with similar openings in the beams 1 and 3. Bolts 10 are inserted through these openings of the beams and plates, and wedges 11 are passed through openings in the bolts for retaining them in place.

Intermediate U-shaped cross beams 12, 12 are interposed between the beams 1 and 3, and are provided with anchoring plates 13, 13 secured to the side walls of the beams 12 at the ends thereof, which extend through a side of each beam 1 and 3, and bolts 14 pass through the protruding ends of the plates for fastening the beams 12 to the beams 1 and 3.

A post 15 is connected to the outer stringer 16 of the lower stairway 4 and the outer stringer 17 of the upper stairway 5. The post is recessed as at 18 through which the beam 3 extends. A bolt 19 passes through the inner wall of the beam 3 and a wedge 20 is inserted in a hole in the bolt, the wedge engaging the inner wall of the hollow post 15 thereby firmly fastening it in place.

Mounted on the framework consisting of the beams 1 and 3, and cross beams 8 and 12, is a landing platform 21, which may be fastened in place in any suitable manner. The beams 3 and 12 are provided at suitable intervals with bridge-pieces 22, which are fastened to the walls of the beams, for forming a surface for attaching the platform to the beams by means of screws 23.

In Figure 4, the manner of attaching the cross beam 8 and an inside stringer 24 of the stairway to the beam 3 is shown, wherein, the bolts 10 are passed through angle plates 9 of the beam and stringer and the wedges 11 pass through the bolts for securely holding the parts in place.

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

1. In a metal stair platform, the combination of beams having openings therein, means for anchoring said beams in a wall, cross beams interposed between said beams, means on said cross beams received in the openings of said beams for supporting the cross beams thereon, and a floor platform fastened to the beams.

2. In a metal stair platform, the combination of beams having openings therein, means for anchoring said beams in a wall, cross beams interposed between said beams means on said cross beams received in the openings of said beams for supporting the cross beams thereon, a hollow post having a recess therein for the reception of one of the beams, means for removably fastening the post to the beam, and a floor platform fastened to the beams.

AKOS J. HALL.