

S. PICHLER.
SCAFFOLD.

APPLICATION FILED JUNE 9, 1909.

942,347.

Patented Dec. 7, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

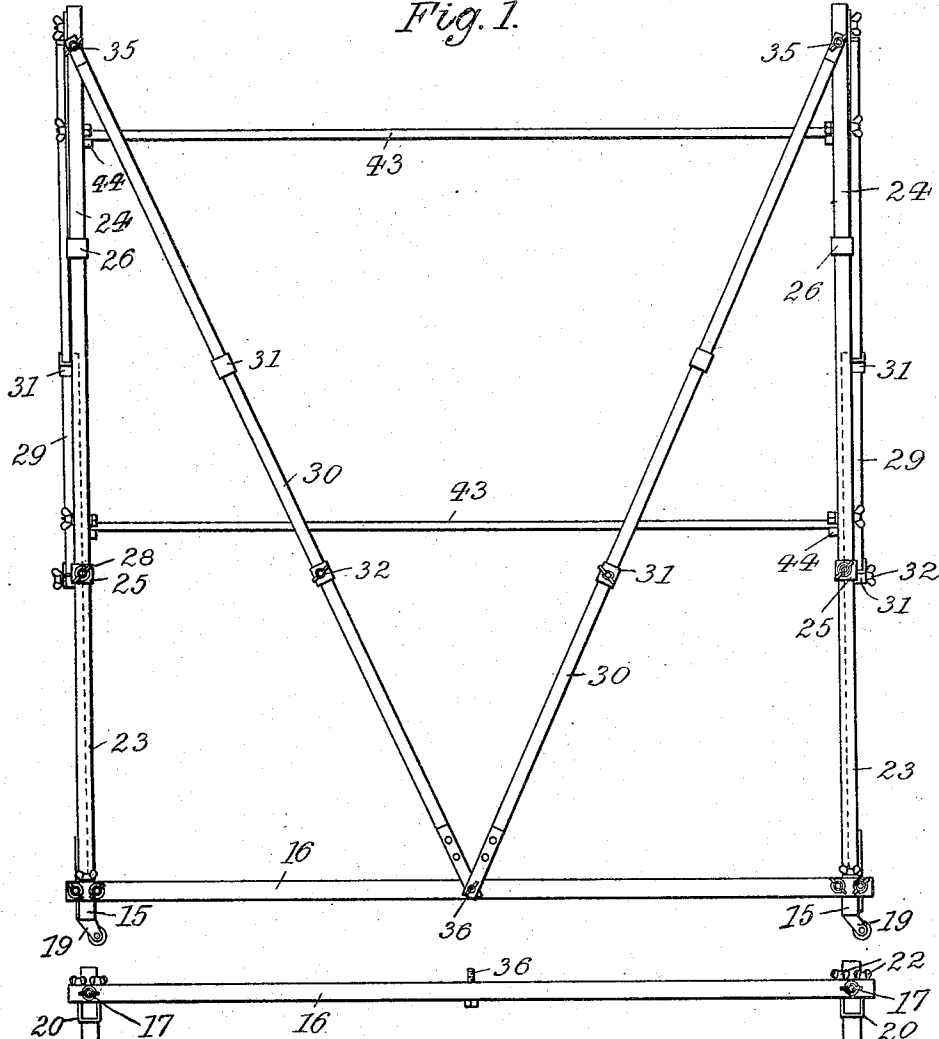
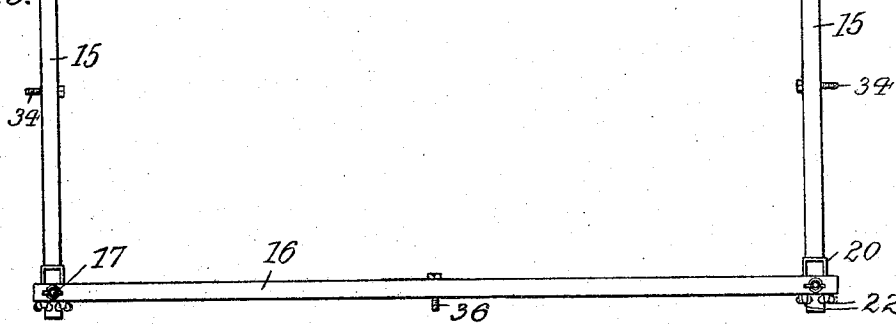


Fig. 3.

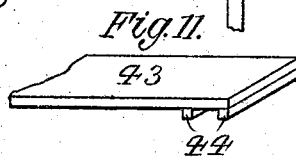
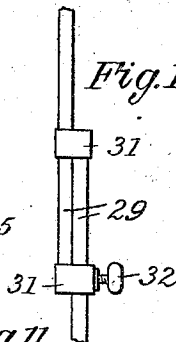
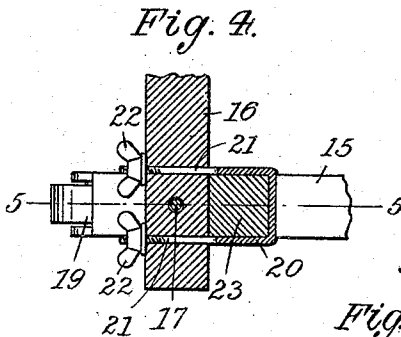
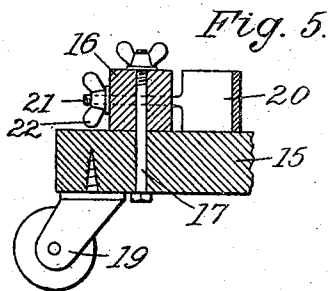
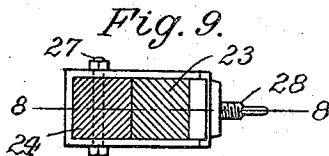
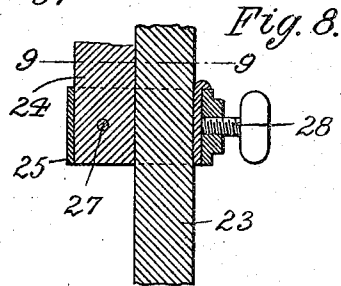
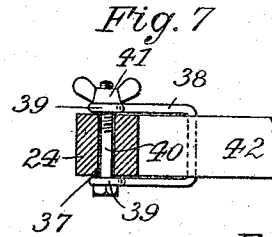
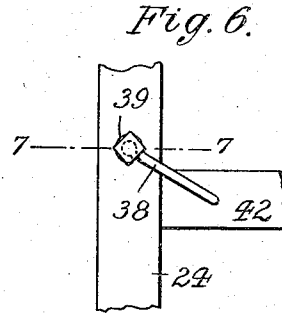
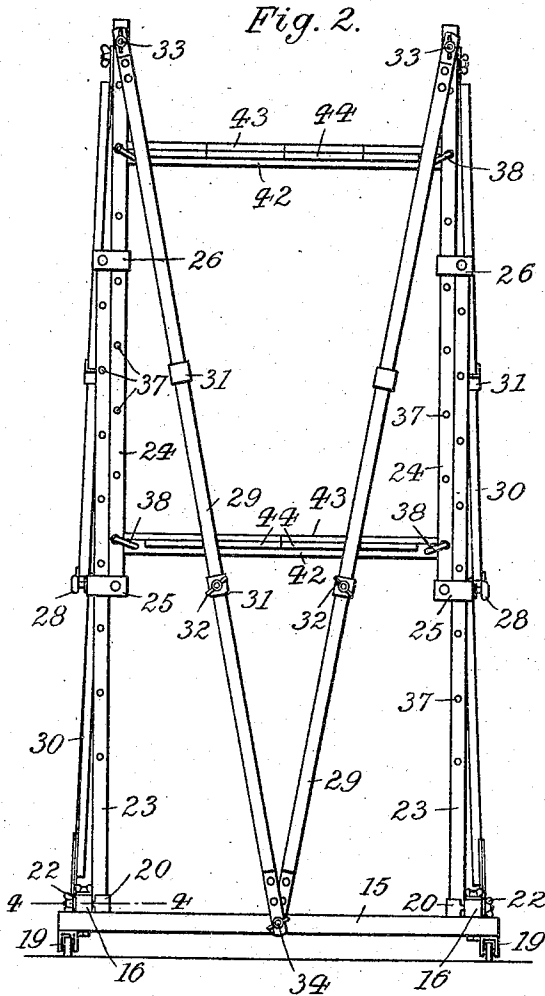


Witnesses:
H. R. Schulz
Edward Schorr.

Inventor
Stephan Pichler
By his Attorney
Arthur E. Grunpe.

942,347.

Patented Dec. 7, 1909.
2 SHEETS—SHEET 2.



Witnesses:
H. R. Schuch
Edward Schuch

Inventor
Stephan Pichler
By Attorney
Arthur C. Zumpfer

UNITED STATES PATENT OFFICE.

STEPHAN PICHLER, OF BROOKLYN, NEW YORK.

SCAFFOLD.

942,347.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed June 9, 1909. Serial No. 501,119.

To all whom it may concern:

Be it known that I, STEPHAN PICHLER, a citizen of the German Empire, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Scaffolds, of which the following is a specification.

This invention relates to an improved portable scaffold which may be readily erected and taken apart.

The scaffold is so constructed that one or more working platforms may be supported thereby and that the heights of these platforms may be adjusted to suit different conditions. When taken apart, the scaffold occupies but a small space so that it may be readily shipped from place to place.

In the accompanying drawing: Figure 1 is a front view of my improved scaffold; Fig. 2 a side view thereof; Fig. 3 a plan of the bottom frame; Fig. 4 an enlarged horizontal section on line 4—4, Fig. 2; Fig. 5 a vertical section on line 5—5, Fig. 4; Fig. 6 a detail of the means for supporting the platform-supporting bars; Fig. 7 a horizontal section on line 7—7, Fig. 6; Fig. 8 a vertical section through one of the loops on line 8—8, Fig. 9; Fig. 9 a horizontal section on line 9—9, Fig. 8; Fig. 10 a side view partly broken away of one of the braces, and Fig. 11 a perspective view of part of the platform board.

The scaffold consists essentially of an oblong detachable bottom frame and of a series of sectional uprights mounted thereon and adapted to support the working platform or platforms. The oblong frame comprises a pair of short parallel beams 15 and a pair of superposed long parallel beams 16 bolted to beams 15 as at 17. If desired casters 19 may be secured to beams 15 in order to facilitate the shifting of the scaffold. At each joint between beams 15 and 16, there is secured to beam 16 a U-shaped shoe 20 having a pair of parallel threaded stems 21. The latter pass through corresponding perforations of beams 16 and carry nuts 22. Into shoes 20 are fitted the lower sections 23 of the sectional corner posts or uprights, the foot of each section 23 resting upon one of the beams 15.

To each lower section 23 is slidably mounted an upper section 24 by means of a pair of loops 25, 26. Loop 25 is by bolt 27 secured to the lower end of section 24, a thumb screw 28 serving to clamp loop 25 to section 23

which slidably engages said loop. Upper loop 26 is secured to the upper end of section 23, section 24 being slidable within the opening of loop 26. Posts 23, 24 are sustained in their upright position by sectional braces 29, 30 provided with loops 31. One of the loops 31 of each brace is provided with a thumb screw 32 so as to permit a proper adjustment of the length of the brace. The upper ends of braces 29 are bolted at 33 to the upper ends of post-sections 24, while their lower ends engage bolts 34 carried by beams 15. In like manner, the upper ends of braces 30 are bolted at 35 to the upper ends of sections 24, while their lower ends engage bolts 36 of beams 16. Bolts 34 and 36 are secured to the respective beams 15, 16 at the center thereof, each bolt being engaged by two braces as shown in Figs. 1 and 2.

Post-sections 23 and 24 are provided with a series of spaced perforations 37 which are adapted to receive the means for supporting the working platforms, two of such platforms being shown to be suspended between upper post-sections 24. These means consist preferably of U-shaped wire bails 38, the free ends of which form eyes 39. The latter are engaged by bolts 40 fitted into perforations 37 and carrying nuts 41. Bails 38 pass through corresponding perforations of cross-bars 42 arranged between posts 23, 24 and above beams 15. Upon cross bars 42 are supported platform-boards 43 which are provided near each end with a pair of spaced parallel ribs 44 that straddle bars 42 (Fig. 11). In this way any slipping of the boards upon bars 42 is prevented, while at the same time additional strength against wavering is imparted to the structure.

In assembling the parts, beams 15, 16 are first united by bolts 17, whereupon frame-sections 23 are set into shoes 20 and nuts 22 tightened. Braces 29, 30 are then connected to the posts and bottom frame 15, 16 by properly securing them to bolts 33, 34, 35, 36 respectively. Upper sections 24 are then raised to the desired height, during which movement braces 29, 30 will become correspondingly extended. Thumb screws 28, 32 are now tightened, so that by the coöperation of the posts and braces a solid structure is obtained. Bails 38, carried by bars 42 are then connected to the posts by passing bolts through eyes 39 and suitable perforations 37 of the posts. Finally boards 43 are

placed upon bars 42, ribs 44 preventing an accidental disengagement of the boards from the bars.

It will be seen that by the construction described, a solid scaffold is obtained and that the working platforms may be readily adjusted to the heights desired. The parts of the scaffold may further be quickly assembled and as quickly taken apart, and they occupy but a small space when placed flat against one another for shipping purposes.

I claim:

1. A scaffold comprising a first pair of parallel beams, a second pair of superposed parallel beams bolted thereto, a U-shaped shoe secured to each upper beam at the junction between the lower and upper beams, a sectional upright engaging each shoe and resting upon the lower beam, sectional braces engaging the uprights, and a vertically adjustable platform suspended between said uprights.

2. A scaffold comprising a detachable

bottom frame composed of two pairs of parallel beams, a bolt at the center of each beam, shoes secured to said beams, sectional uprights engaging the shoes, a pair of sectional braces connecting the top of each upright with the bolts of the adjoining beams, and a vertically adjustable platform suspended between the uprights.

3. A scaffold comprising a first pair of parallel beams, a second pair of superposed parallel beams bolted thereto, a U-shaped shoe secured to each upper beam at the junction between the lower and upper beams, a sectional upright engaging each shoe and resting upon the lower beam, a pair of sectional braces connecting the top of each upright with the center of each adjoining beam, and a vertically adjustable platform suspended between the uprights.

STEPHAN PICHLER.

Witnesses:

ARTHUR E. ZUMPE,
H. R. SCHULZ.