

Sept. 30, 1958

J. M. SCHAEFFER

2,854,292

WELDING CHAIR

Filed March 29, 1957

Fig. 1

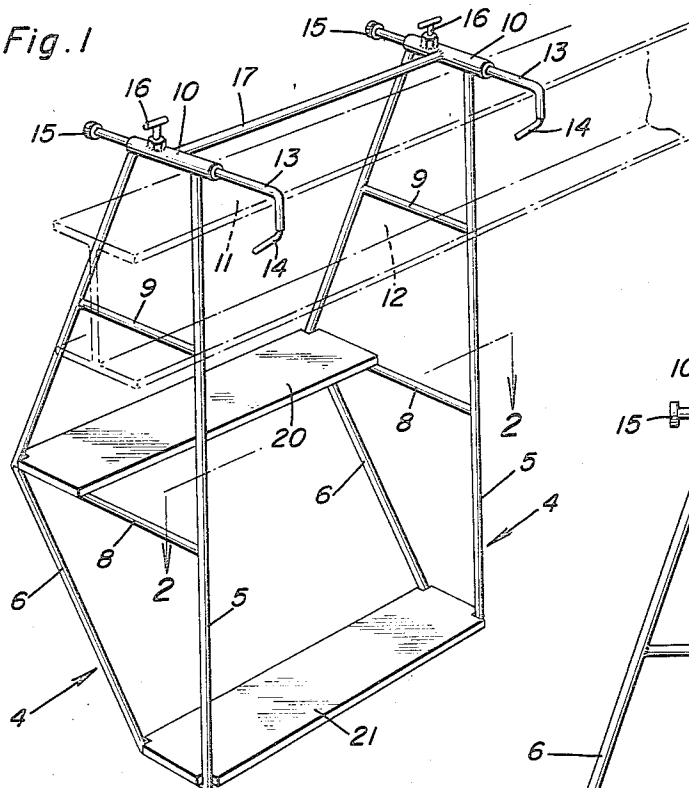


Fig. 3

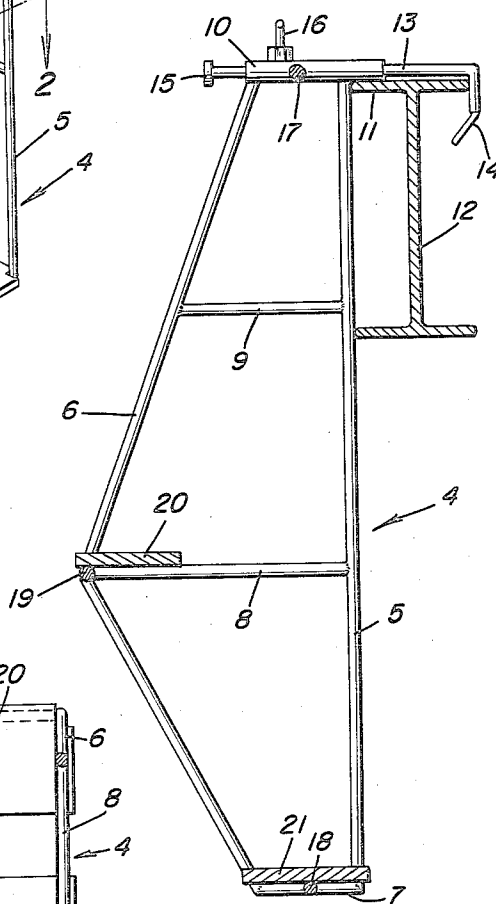
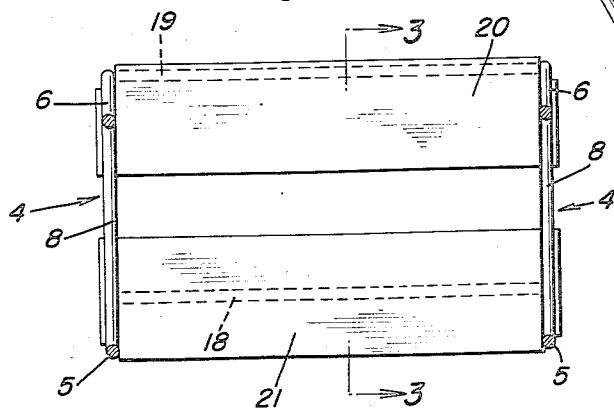


Fig. 2



John M. Schaeffer
INVENTOR.

BY *Oliver A. O'Brien*
and *Harvey B. Jordan*
Attorneys

1

2,854,292

WELDING CHAIR

John M. Schaeffer, Allentown, Pa., assignor to Lehigh Construction Company, Inc., Allentown, Pa., a corporation of Virginia

Application March 29, 1957, Serial No. 649,516

1 Claim. (Cl. 304—15)

The present invention relates to new and useful improvements in welders', etc. chairs particularly for working aloft on metallic building and other structures and has for its primary object to provide, in a manner as hereinafter set forth, an adjustable device of this character which is adapted to be expeditiously hung for use on various sizes of beams or other horizontal supports with a minimum of labor.

Another very important object of the invention is to provide a chair of the aforementioned character which may readily be moved from place to place on the job by the mechanic alone.

Other objects of the invention are to provide a welding chair of the character described which will be comparatively simple in construction, strong, durable and safe, of light weight and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view, showing a welding, etc., chair embodying the present invention mounted on a beam, said beam being shown in broken lines;

Figure 2 is a view in horizontal section through the device, taken substantially on the line 2—2 of Figure 1; and

Figure 3 is a vertical sectional view, taken substantially on the line 3—3 of Figure 2, showing the chair suspended on an I-beam.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a pair of duplicate, substantially U-shaped side frames 4 of suitable metal. The side frames 4 may also be of any desired dimensions.

The side frames 4 includes straight, vertical front legs 5, rearwardly angulated rear legs 6 and horizontal bight portions 7. The frames 4 are formed from a single metallic rod. Braces 8 extend between the legs 5 and 6 at the angles of the latter. Additional braces 9 extend between the upper portions of the legs 5 and 6. The braces 8 and 9 are welded in position.

Welded longitudinally on the upper ends of the side frames 4 are metallic sleeves 10. The sleeves 10 project forwardly beyond the front legs 5 of the frames 4 and are adapted to rest on the upper flange 11 of an I-beam 12. Hooks 13 are mounted for sliding adjustment in the sleeves 10. The bills 14 of the hooks 13 are engageable under the top flange 11 of the I-beam 12, as shown to advantage in Figure 3 of the drawing. Stop heads 15 are provided on the other ends of the hooks 13. Set screws 16 secure the hooks 13 in adjusted position in the sleeves 10.

The side frames 4 are connected by upper, lower and

2

intermediate cross bars or rods 17, 18 and 19, respectively. The cross bar 17 is welded to the sleeves 10 at intermediate points on said sleeves. The ends of the lower cross bar 18 are welded to intermediate portions of the bight portions 7 of the side frames 4. Then, the intermediate cross bar 19 has its ends welded to the rear legs 6 of the side frames 4 at the bends or angles of said legs. A seat 20 of suitable material, preferably plywood, is mounted between the side frames 4 and rests on the members 8 and 19. A footrest 21 of similar material rests on the member 18 and the bight portions 7 of the side frames 4.

It is thought that the use of the device will be readily apparent from a consideration of the foregoing. Briefly, the chair is mounted on one side of the I-beam 12 with the forwardly projecting end portions of the sleeves 10 resting on the upper flange 11 of said beam. The bills 14 of the hooks 13 are then engaged under the flange 11 on the other side of the beam 12 and secured by tightening the setscrews 16. The hooks 13 clamp the chair against the beam 12. The mechanic then occupies the seat 20 with his feet resting on the footrest 21 and is ready to begin working. It will be observed that the frame structure is completely open at the front and substantially so at the rear to provide free access to the work. By loosening the setscrews 16, thus freeing the clamping hooks 13, the chair may be shifted longitudinally on the beam 12 without being removed therefrom. Or, if desired, the device may be removed from the beam and suspended in position for use at another location. The strong, durable but light construction permits the device to be easily transported, hung and shifted by the mechanic doing the work.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A welding chair of the character described comprising: a pair of vertically elongated, substantially U-shaped side frames, said side frames including bight portions, vertical front legs and rearwardly angulated rear legs, horizontal braces extending between said front and rear legs at the angles of the latter, a cross member extending between said rear legs at said angles thereof, a seat mounted on said braces and said cross member, a cross member extending between said bight portions of said frames, a footrest mounted on said bight portions of said frames and on the second named cross member and offset forwardly of said seat, and means for hanging the frames on one side of an I-beam, said means including sleeves mounted horizontally on the upper ends of the front and rear legs, hooks mounted for sliding adjustment in said sleeves and engageable with the I-beam on the other side thereof, and setscrews threadedly mounted in the sleeves for securing said hooks in adjusted position.

References Cited in the file of this patent

UNITED STATES PATENTS

623,675	Knaust	Apr. 25, 1899
1,192,798	Scott	July 25, 1916
1,318,479	Carter	Oct. 14, 1919
1,458,744	Brewster	June 12, 1923
1,868,187	Avallone	July 19, 1932
2,381,810	Elwood	Aug. 7, 1945
2,433,090	Cass	Dec. 23, 1947