Sept. 1, 1942. C. HUBER 2,294,663

CRADLE BRACE

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FIG. 1

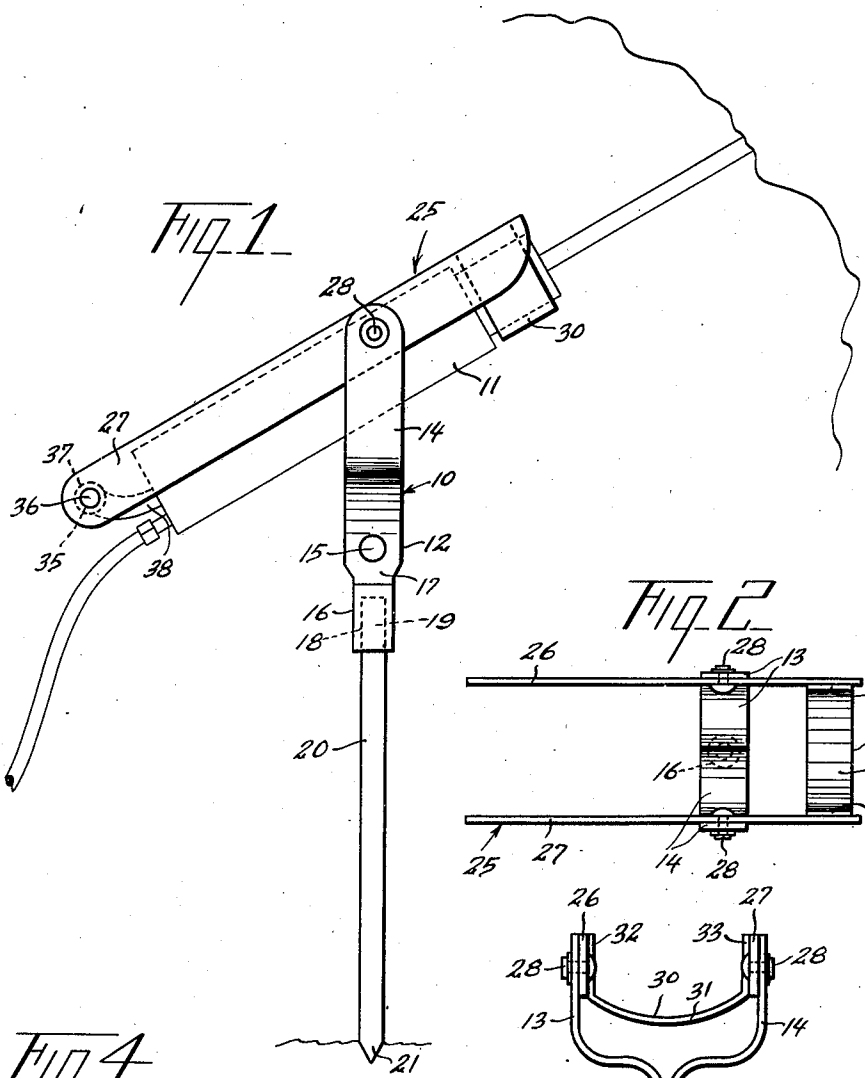
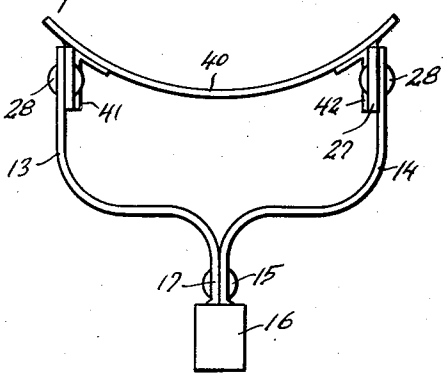


FIG. 2

FIG. 3

FIG. 4



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CRADLE BRACE

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2 Claims. (Cl. 255—51)

This invention relates to a support for jack hammers, pneumatic drills and other analogous implements such as commonly used in quarries, mines, etc., in which it is necessary to support the implement at varying heights and at widely different angles of approach to the work. It is to be understood that the implement is of the type that is held up to the work and withdrawn therefrom under manual guidance and pressure exerted by the operator and applied directly to the body of the tool, as distinguished from rigidly mounted implements that are fed by mechanical means.

It is accordingly the principal object of this invention to provide a cradle support for an implement of the type hereinabove set forth, said cradle support embodying a fixed standard to be supported from the ground and a pivotally mounted cradle for carrying the implement and to which said implement may be connected.

With the foregoing and other objects in view, the invention resides in the novel arrangement and combination of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

A practical embodiment of the invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a side elevational view of the cradle brace in operative position to support a pneumatic drill.

Figure 2 is a plan view of the cradle brace.

Figure 3 is a rear elevational view of the cradle brace.

Figure 4 is a view similar to that of Figure 3 of a modified form of cradle brace.

Referring to the drawing in detail, there is shown in Figure 1, by way of example, a cradle brace or support 10 mounting a pneumatic drill 11. The cradle brace 10 comprises a yoke-shaped standard 12 which is preferably formed of a pair of strap iron arms 13 and 14 rigidly joined together at their lower ends by a rivet 15 or any other suitable means. An elongated socket member 16 is rigidly secured as by welding to the terminal end of the stem 17 of the standard 12. The socket member 16 is provided with a bore 18 which may be circular or non-circular to receive therein the upper end 19 of a support bar 20, the lower end of which is tapered as at 21.

Pivotally supported by the arms 13 and 14 of the standard 12 is a cradle 25. The cradle 25 is formed of two parallel side members 26 and 27 made of strap iron similar to the yoke arms 13, 14 and respectively pivotally connected to the free ends of said arms by means of the rivets or bolts 28. Preferably the pivotal connection of the arms 13, 14 to the side members 26 is at a point intermediate the forward end and the center of each side member, such that the center of gravity of the drill 11 will lie substantially in the plane of the standard 12 whereby to insure perfect balance of the drill on said standard.

At the forward end of the side members 26 and 27 there is provided a saddle 30 formed with a downwardly curved intermediate portion 31 and with parallel upstanding end portions 32 and 33 which are rigidly secured as by welding or any other suitable means respectively to the inside end portions of the side members 26 and 27. Viewing, Figure 1, it will be observed that the saddle 30 extends slightly below the bottom edges of the side members 26 and 27, and serves to support the forward end of the drill 11. The rear end portions of the side members 26 and 27 are provided with aligned openings 35 through which extends a bolt 36. With many forms of pneumatic drills the handle 37 thereof is secured to the casing arms 38 by a removable bolt. In such cases this bolt may be removed and the handle 37 directly secured to the side members 26 and 27 by the bolt 36. Where the handle construction is not of the type as above indicated any suitable form of holding means (not shown) may be utilized for supporting the rear end of the drill (or other implement) to the rear end of the cradle 25.

In Figure 4 there is shown a modified form of cradle brace, wherein the only difference from that shown in Figures 1, 2 and 3 is in the form of saddle and mounting thereof. In this case the saddle 40 is formed of strap-iron and downwardly bowed, and of a length exceeding the distance between the side members 26 and 27. Fixed to the underside of the saddle 40 as by welding or riveting are a pair of angle brackets 41 and 42, each arranged inwardly of an end of the saddle in opposed relation to each other. The vertical legs of the angle brackets are arranged one on the inner face of each of the side members 26 and 27 at the forward ends thereof and are similarly rigidly secured thereto. The mounting of the saddle 40 is such that the same is seated in effect on the upper edge of the side members 26 and 27, each end of said saddle projecting laterally beyond its adjacent

side members. This form of saddle will support a drill or other implement having a forward end portion that normally would not fit the form of saddle **30**, shown in Figures 1, 2 and 3.

With the drill **11** mounted on the cradle brace it is apparent that the same is supported thereby for any angular position within the limits of pivotal movement of the cradle on the standard. Support bars **20** of various lengths may be provided whereby the drill may be supported at any selected height above the ground.

Having thus described the invention, what is claimed is:

1. A pneumatic drill support comprising a yoke-shaped standard having a stem and an upwardly directed pair of arms, a socket fixed to the lower end of said stem, a support bar having its upper end connected in said socket, and a cradle for said drill pivotally connected to said arms, said cradle comprising spaced parallel side members, a saddle bridging the forward ends of said side members and rigidly secured thereto for supporting the front end portion of said drill, and means on the rear end of said cradle for supporting the rear end portion of said drill.

2. A pneumatic drill support comprising a yoke-shaped standard having a stem and an upwardly directed pair of arms, a socket fixed to the lower end of said stem, a support bar having its upper end connected in said socket, and a cradle for said drill pivotally connected to said arms, said cradle comprising spaced parallel side members each pivotally mounted on an arm of said standard on a common axis to form said pivotal connection, a saddle bridging the forward ends of said side members and rigidly secured thereto for supporting the front end portion of said drill, and means connecting the rear end portion of said drill to the rear ends of said side members.

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