Oct. 7, 1930.

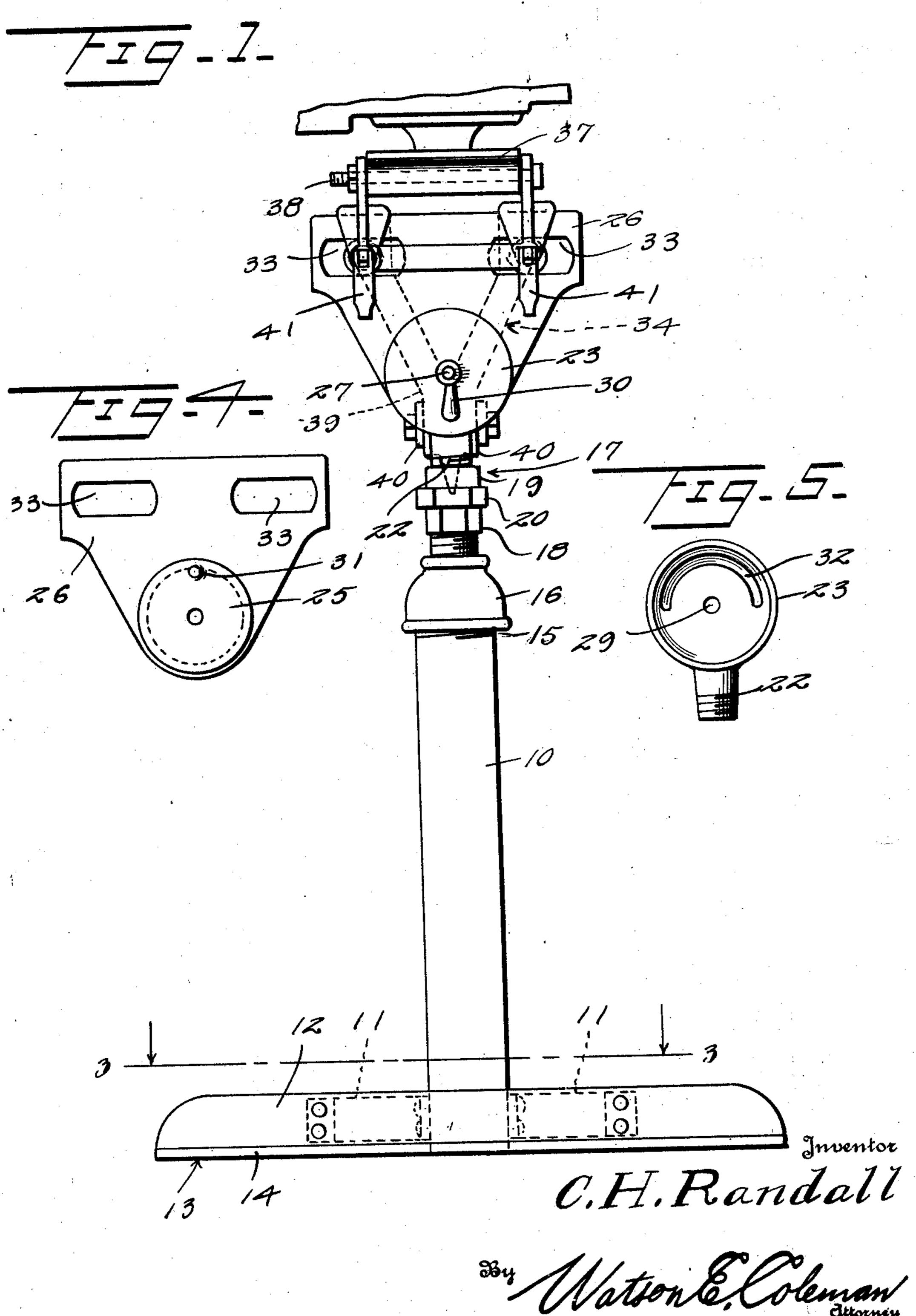
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1,777,935

STAND FOR OUTBOARD MOTORS

Filed Dec. 27, 1928

2 Sheets-Sheet 1



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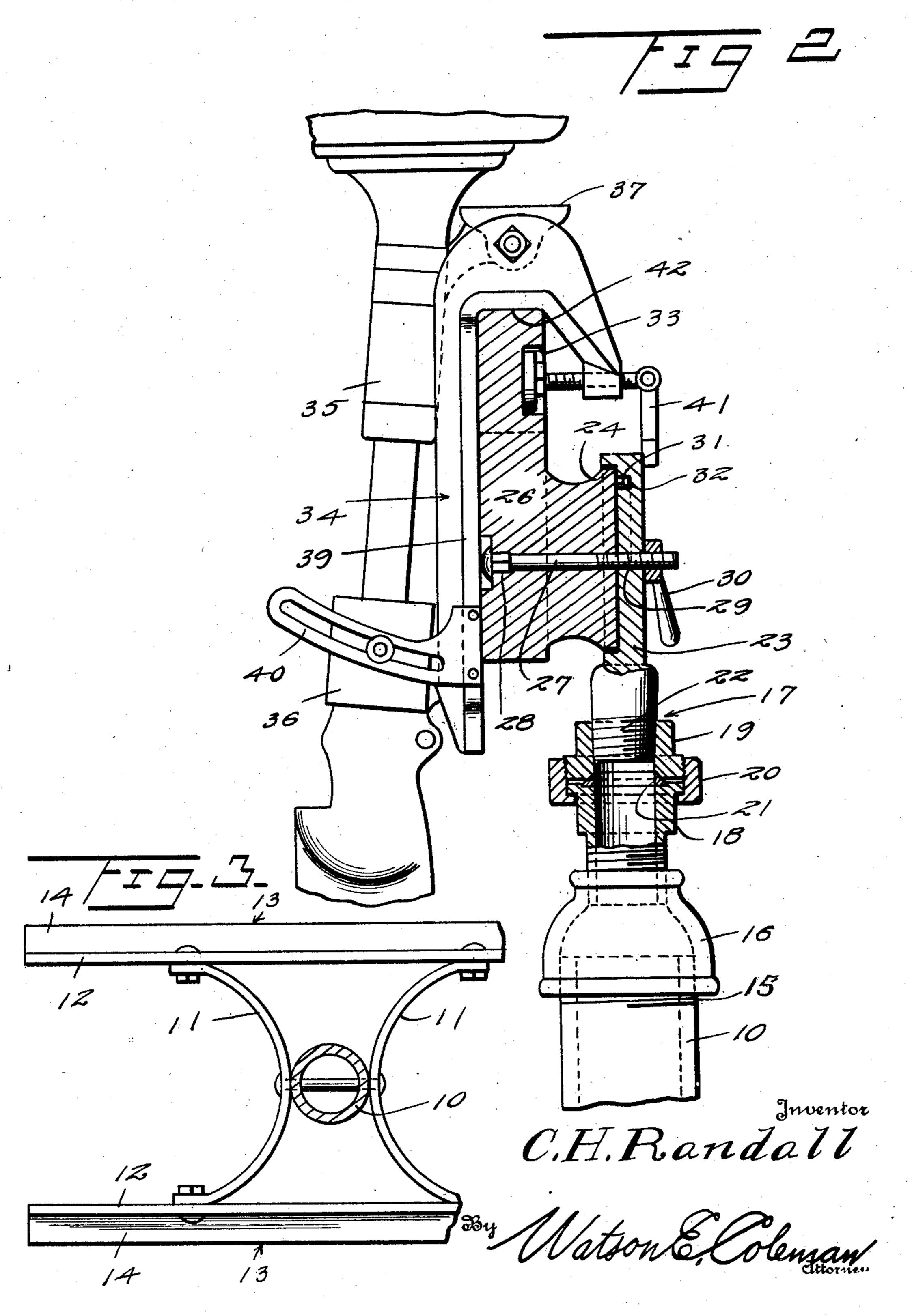
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

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STAND FOR OUTBOARD MOTORS

Application filed December 27, 1928. Serial No. 328,824.

spection and repair work.

able attention of late and are popularly used provide a base. Among such devices are in small boat racing. As practical tests of channel and T-irons. The standard 10 is such motors often indicate the necessity for tubular and is preferably constructed from additional repairs before use of the motor for an ordinary piece of two inch wrought-iron 10 racing purposes, an important object of the pipe and has its upper end threaded, as at 15, 60 invention is to provide a stand which is for the reception of an ordinary coupling 16 capable of use in any situation and which preferably in the form of a reducer. is readily portable and will securely hold. The upper end of this reducer is secured to the motor in any desired adjusted position. one member of a ball joint union 17.

20 motor afforded by the usual motor mountings, rests, thus providing at once a joint between 70 it will permit the motor to be positioned at

25 to produce a device of this character which sleeve nut 20. in so far as possible embodies standard pipe parts or parts which are readily obtainable in any sheet metal shop, thus eliminating long waits in event repair becomes necessary.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:

Figure 1 is a front elevation of an outboard motor stand constructed in accordance with my invention, the motor being partially illustrated;

40 the upper end of the stand showing the motor of which the disk and hub may be forced into 90 in position thereon;

Figure 1;

45 sections of the head.

drawings, the stand includes a vertical stand-sufficient length to limit relative rotation of ard 10, to the lower end of which are bolted the bracket to the upper 180° of movement curved sheet metal bands 11, the outer ends about the stud 27, which would otherwise be 50 of which are secured to the vertical flanges possible.

This invention relates to stands for out- 12 of angle irons 13. While angle irons are board motors, and more particularly to a illustrated and their use is preferred, it will stand for supporting the motor during in- be obvious that any member may be provided which affords, in addition to the vertical 5 Outboard motors have received consider- flange 12, a horizontal flange 14, which will 55

A further object of the invention is to pro- As is well known to those familiar with the 65 vide a device of this character which, while art, such unions often termed navy unions are providing a means for universally position- formed in two sections 18 and 19 coupled by a ing the motor, of itself is so constructed that, sleeve nut 20. One of the sections has a brass in combination with the movements of the seat 21 upon which the other of the sections the sections and a swivel seat. These sections all times in such manner that the part being are relatively rotatable so that the upper secworked upon is most directly accessible. tion may be secured in any position with rela-A still further object of the invention is tion to the other section and clamped by the

In the upper section 19, I engage a threaded extension 22 produced upon the periphery of a disk 23. This disk has its inner face recessed, as at 24, for the reception of the hub 25 of a vertically extending bracket 26. This 80 bracket has an axial stud in the form of the terminal portion of a carriage bolt 27 extended through the bracket and hub and having the squared shank portion 28 thereof seated in a prepared recess, so that the stud is \$5 held against rotation. The end of this stud projects through an axial opening 29 formed in the disk 23 and at the outer face of the disk Figure 2 is a vertical sectional view through has mounted thereon a lever nut 30, by means frictional clamping engagement with one an-Figure 3 is a section on the line 3-3 of other to secure the bracket in rotatably adjusted positions. One of these members and Figures 4 and 5 are detail elevations of the preferably the hub of the bracket is provided with a pin 31 operating in a groove or slot 32 95 Referring now more particularly to the of the other member, and this slot is made of

Since the head H provided by the disk 23, bracket 26 and its hub 25 may be rotated about a vertical axis to any desired adjusted position and the bracket may be rotated in a ver-5 tical plane upon a horizontal axis through 180°, the movement of this bracket permits substantial universal placement thereof. The face of this bracket is provided with spaced transversely elongated sockets 33 adjacent the 10 free edge thereof, for a purpose presently to

appear. By far, the greater majority of outboard motors include in their construction mounting brackets, generally designated at 34, 15 which are universally connected to the engine frame. In the general illustration herein provided, the engine assembly includes portions rotatably directed through bearings 35 and 36. The upper bearing 35 mounts a 20 bracket element 37 through which a horizontal pivot bolt 38 is directed. Upon this pivot bolt is mounted an engine bracket 39, which is connected with the lower bearing element by a segment 40 slotted to permit the lower end 25 of the bracket to move toward and away from

this bearing. It will be obvious that with the bracket secured in any adjusted position, as it may be by spaced clamping set-screws 41 bearing 30 against an element inserted in a slot 42 formed in the bracket, the engine may be positioned at any desired angle and while at this angle may be rotated to any desired position. The bracket generally described above is embodied 35 in practically all types of outboard motors, its form being slightly modified but the general construction described retained.

It will be obvious that if the slot 42 of this bracket is employed to receive the bracket 26 40 of the stand just described and the set-screws 41 are engaged in the sockets 32 of this bracket, then by means of the stand alone the engine may be disposed horizontally with either side thereof uppermost or vertically or at any 45 position between these points and may be rotated about the stand to bring the same to a possible rotation. position where the most effective lighting can be obtained. It will also be obvious that when these movements are combined with the 50 adjustments possible by means of the bracket

forth is capable of a certain range of change portion and extending axially through the and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except 60 as hereinafter claimed.

I claim:—

1. In a portable stand for outboard motors and the like, a base, a standard arising therefrom, a head carried by the upper end of the 65 standard and rotatable thereupon about a

vertical axis, said head being formed in two sections one of which is fixed to the standard and the other of which is rotatable about a horizontal pivot upon the first named section, means for securing the last named sec- 70 tion in adjusted positions with relation to the first named section, and means for securing the head in rotatably adjusted positions, the last named section of the head being adapted to enter the slot of an out- 75 board motor mounting and having transversely elongated sockets formed in one face thereof for the reception of clamping elements of the mounting.

2. In a portable stand for outboard motors so and the like, a base, a standard arising therefrom, a head connected to the upper end of the standard, said head being formed in two sections one of which comprises a disk and the other of which comprises a bracket hav- 85 ing a hub portion, a stud carried by the hub portion and extending axially through the disk, and a clamping member upon the stud for clamping the disk and hub against relative rotation, said bracket comprising a sub- 90 stantially vertical plate adapted for insertion in the slot of an outboard motor mounting.

3. In a portable stand for outboard motors and the like, a base, a standard arising therefrom, a head connected to the upper end of 95 the standard, said head being formed in two sections one of which comprises a disk and the other of which comprises a bracket having a hub portion, a stud carried by the hub portion and extending axially through the 100 disk, and a clamping member upon the stud for clamping the disk and hub against relative rotation, said bracket comprising a plate adapted for insertion in the slot of an outboard motor mounting, one of confronting 105 faces of the sections of the head having a pin, the other of the sections having an arcuate slot in which the pin engages, the pin and slot engagement limiting rotation of the bracket about the stud to the upper 180° of 110

4. In a portable stand for outboard motors and the like, a base, a standard arising therefrom, a head mounted on and connected to the upper end of the standard to permit rotation 115 of the engine, then the engine can be posi- upon a vertical axis, said head being formed tioned in practically any position desired to in two sections one of which comprises a disk render any particularly part readily accessi- and the other of which comprises a bracket including a plate and a hub portion project-Since the construction hereinbefore set ing from one face, a stud carried by the hub 120 disk, and a clamping member upon the stud for clamping the disk and hug against relative rotation, said plate being substantially vertically arranged and adapted for inser- 125 tion in the slot of an outboard motor mounting, the connection between the standard and head permitting rotation of the head upon a vertical axis.

5. In a portable stand for outboard motors 130

1,777,985

and the like, a base, a standard arising therefrom, a head connected to the upper end of the standard, said head being formed in two sections one of which comprises a disk and g the other of which comprises a bracket including a plate having a hub portion projecting from one face at one edge, a stud carried by the hub portion and extending axially through the disk, a clamping member upon 10 the stud for clamping the disk and hub against relative rotation, said plate being substantially vertically arranged with the hub at the lower edge and adapted for insertion in the slot of an outboard motor mounting, the standard comprising a section of pipe, a union being coupled to the upper end of the pipe and connecting the head to the pipe, and means between the disc and hub for limiting the relative movement thereof upon said stub.

6. In a portable stand for outboard motors and the like, a base, a standard arising therefrom, a head connected to the upper end of the standard, said head being formed in two sections one of which comprises a disk and the other of which comprises a bracket having a hub portion, a stud carried by the hub portion and extending axially through the disk, and a clamping member upon the stud for clamping the disk and hug against relaed tive rotation, said bracket comprising a plate adapted for insertion in the slot of an outboard motor mounting, the standard comprising a section of pipe, a union being coupled to the upper end of the pipe, said disk having a radial stem engaged in one of the members of the union.

In testimony whereof I hereunto affix my signature.

CLAUDE H. RANDALL.

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