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DEVICE FOR HOLDING MUFFLERS

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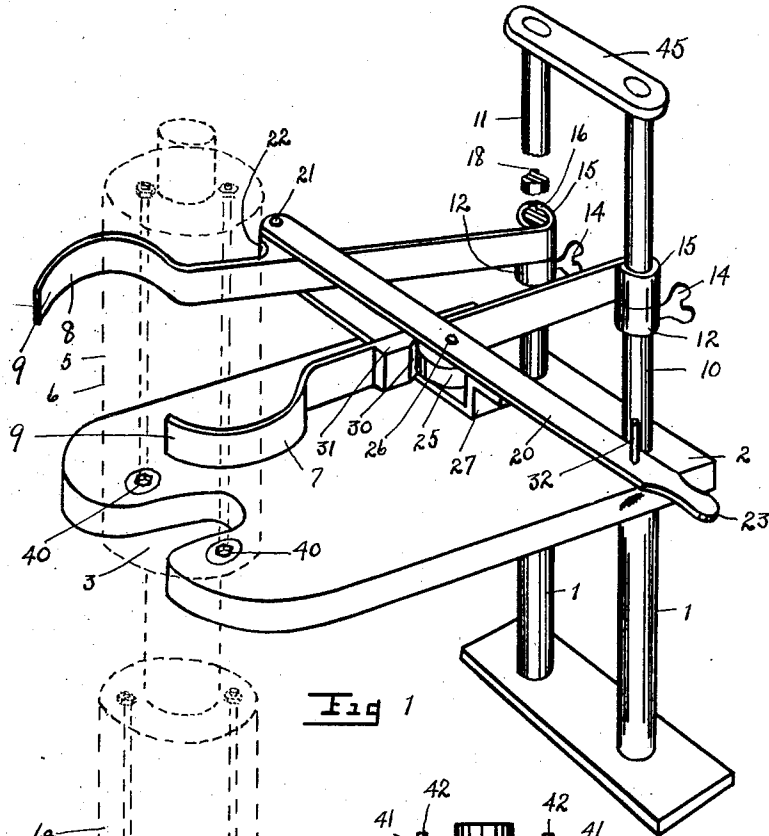


Fig 1

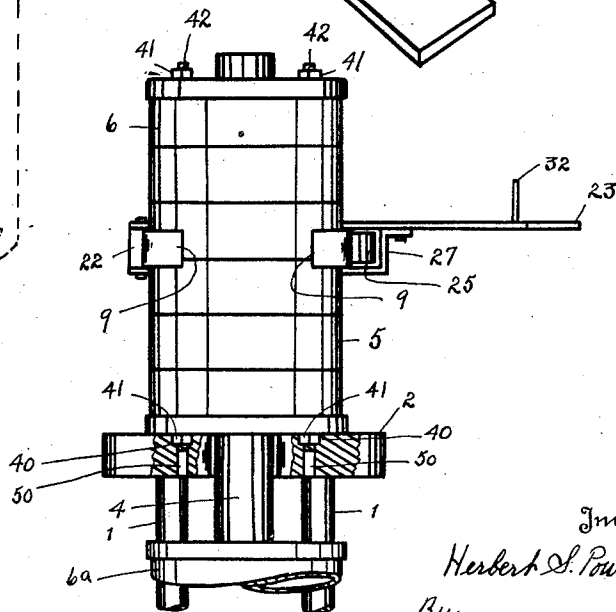


Fig 2

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DEVICE FOR HOLDING MUFFLERS

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My invention relates to a device for holding mufflers and I declare the following to be a full, clear, concise and exact description thereof sufficient to enable anyone skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings in which like reference characters refer to like parts throughout the specifications.

10 The object of the invention is to provide a device adapted to hold a muffler of the dumb-bell or other type made up of cups held together by stay rods while tightening the nuts on opposite ends of said stay rods. By the use of this device both nuts on the opposite ends of each stay rod can be tightened simultaneously.

The object will be understood by referring to the drawings in which;

20 Fig. 1 is a perspective view of the device showing a dumb-bell muffler in dotted lines, in assembled position thereto.

Fig. 2 is a front elevation of the device showing a dumb-bell muffler assembled thereto and parts broken away.

Referring more particularly to the drawings the invention embodies standards 1, 1 that support at a convenient location from the floor a shelf or table 2 having an open recess at 3. Said recess 3 is circular in shape at its inner end and adapted for the reception of the connecting tube 4 of the muffler 5.

The upper muffler is held in place by clamping members 7, 8 that are equipped with annular or spoon shaped portions 9, 9 adapted to conform to the curvature of muffler 6. Clamps 7, 8 are in each instance supported in a horizontal position by upright rods 10, 11 which support also table 2 by being projected through suitable apertures in said table 2 and welded thereto. Roads 10, 11 are the respective extensions of standards 1, 1 being reduced to form shoulders for table 2 upon which to rest.

45 Clamps 7, 8 are suspended in predetermined

position with relation to table 1 by adjustable collars 12, 12 held in position by winged set bolts 14, 14. The ends of clamps 7, 8 contiguous with rods 10, 11 are bent to form sleeves or sockets at 15, 15 adapted to slide upon their respective rods 10, 11. Clamping member 8 has a keyway formed at 16 in its socket 15, whereby to cooperate with key 18 of rod 11 to prevent said clamp 8 from turning on rod 11 as a pivot. The other clamp 7, however, turns freely on rod 10 as a pivot.

The means for holding the outer annular portions 9, 9 of clamps 7, 8 in spaced relation to each other and for moving clamp 7, towards clamp 8 embodies a lever arm 20 pivoted at 21 to the enlarged part at 22 of clamp 8. Lever arm 20 extends across both clamping members 7, 8 and has a handle 23 formed on its free end, whereby to swing said lever arm 20 on its pivot 21 to move clamping member 7 towards the other 8 for the purpose of holding the muffler.

In order to effect this movement of clamping member 7, a roller 25 is mounted to turn on a headed bolt 26 as an axle. Bolt 26 passes through apertures made in lever arm 20 and bracket 27 that is in spaced relation to and bolted at one end to the under side of lever arm 20 and at the other pivoted to the under side of enlarged part 22 of clamping member 8, whereby to form a housing to aid in holding clamping members 7 and 8 in the same horizontal plane.

Roller 25 is adapted to make contact with the adjacent lateral surface of clamping member 7 and to ride up the beveled or cam surface 30 made in enlarged part 31 that is formed integral with movable clamping member 7.

An upstanding auxiliary handle 32 is mounted to lever arm 20 to aid in rocking said arm 20. A cross bar 45 is mounted to the upper ends of upright rods 10, 11 to aid in holding the same in given relation.

Sockets 40, 40 conforming to the shape of a nut are countersunk in the top surface of table 1, whereby to receive and hold the lower

set of nuts 41 stationary, while the upper set is turned on stay rods 42, thereby drawing said stay rods longitudinally through the muffler and tightening the set of nuts 41, 41 disposed in sockets 40, 40 against the contiguous end surface of part 6 or 6^a of the muffler 5.

The operation of the device is effected by placing a muffler either of the dumb-bell type having two larger cylindrical parts 6, 6^a connected by a tube 4 whereby tube 4 will fit within open recess 3. The end surface of an enlarged part 6 or 6^a will rest upon the edges of table 2 contiguous to recess 3 with the ends of stay rods 42, 42 having nuts 41, 41 loosely mounted thereto at either end preliminary to being turned up in a tight manner. One set of nuts 41, 41 will rest in sockets 40, 40. The contiguous ends of stay rods 42 will project through suitable apertures 50, 50 made in table 2 in the center of each of the sockets 40.

Clamping member 7 is moved, whereby to clamp the enlarged part 6 or 6^a of the muffler between the outer annular portions 9, 9 of clamping members 7 and 8, by manipulating arm 20.

Ordinarily an electric wrench, not shown, will be used to tighten the upper set of nuts 41, 41 on rods 42, 42 when the muffler is in the above mentioned position. The tightening of the upper set of nuts 41, 41 will also automatically tighten the lower set of nuts 41, 41 resting in sockets 40, 40. However, muffler 5 is reversed, whereby the set of nuts 41, 41 in sockets 40, 40 will be uppermost for convenience in turning them up tightly against the contiguous end surface of muffler 5.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is as follows:

1. In a device for holding mufflers, a table having sockets for the disposition of nuts therein, clamping members disposed above said table, whereby to engage said muffler, and a lever for moving said clamps into engagement with said muffler.

2. In a device for holding mufflers, a support for holding a muffler, sockets formed in said supports for the reception of nuts and rock means held above said support for holding said muffler over said sockets.

3. In a device for holding mufflers, a table having sockets for holding nuts, clamps located above the table for holding the muffler over said sockets, and a rock arm adapted to move one of said clamps into contact with said muffler.

4. In a device for holding mufflers, means for supporting a muffler, clamping members disposed above first named means to hold said muffler, one of said members having a cam surface and a roller adapted to make contact with said cam surface, whereby to move the end of one of said clamping members towards the other.

5. In a device for holding mufflers, a table

for supporting a muffler, clamping members supported above said table whereby to hold said muffler, one of said members having a cam surface thereon, a roller adapted to make contact with said cam surface, and the members for moving said roller against said cam surface, whereby to move the end of one of said clamping members towards the other.

In testimony whereof I have affixed my signature.

HERBERT S. POWELL.