Dec. 31, 1929. C. JACKSON 1,741,240

TAMPING AND LIKE IMPLEMENT

Filed Sept. 29, 1928

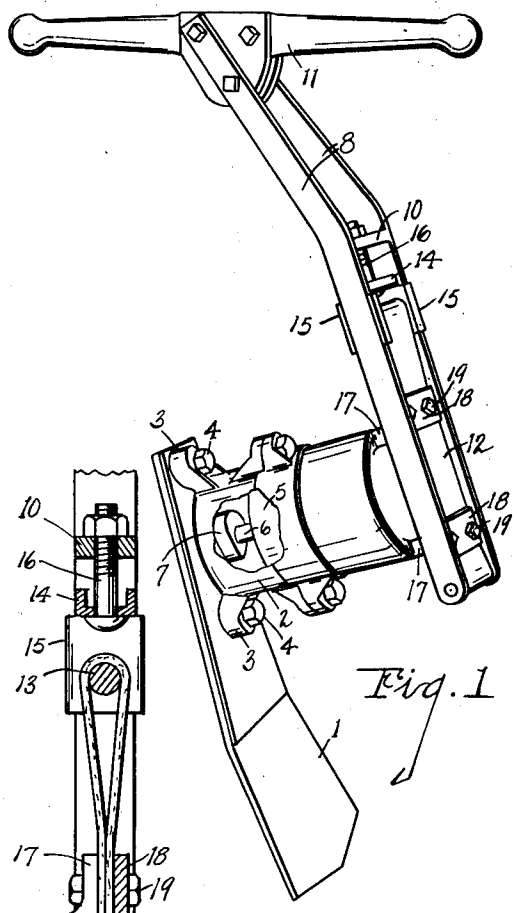


Fig. 1

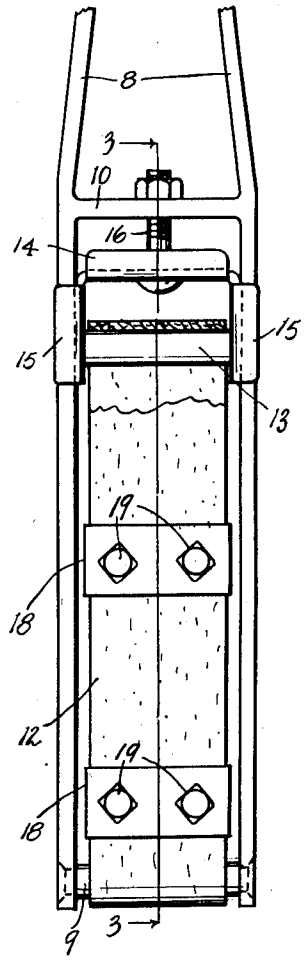


Fig. 2

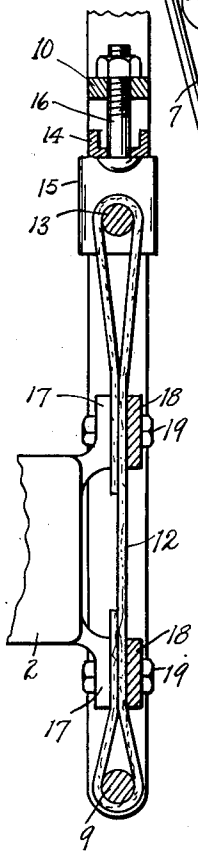


Fig. 3

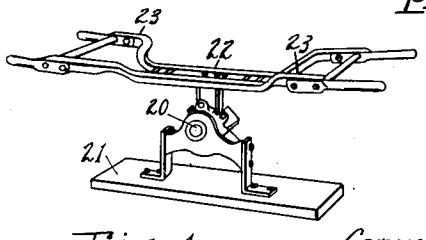


Fig. 4

INVENTOR
Cornwill Jackson
BY Chappell & Earl
ATTORNEYS

Patented Dec. 31, 1929 1,741,240

UNITED STATES PATENT OFFICE

CORWILL JACKSON, OF CHICAGO, ILLINOIS

TAMPING AND LIKE IMPLEMENT

Application filed September 29, 1928. Serial No. 309,193.

My present improvements relate to the class of tools or implements of the type shown in Letters Patent No. 1,329,049 dated January 27, 1920.

The main object of this invention is to provide a tamping tool or implement of the vibrating type in which the operator is subject to a very small amount of vibration.

A further object is to provide a structure having these advantages which is very economical in its parts and very durable.

Objects relating to details and economies of my invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a tie tamping machine or implement embodying the features of my invention.

Fig. 2 is a fragmentary view of the handle and the support for the vibrating element mounted thereon.

Fig. 3 is a detail view mainly in section on line 3—3 of Fig. 2.

Fig. 4 is a detail view illustrating my improvements as embodied in a concrete vibrator or tamping machine.

In the embodiment illustrated in Figs. 1, 2 and 3, the tool or tamper 1 is in the form of a flat blade, this being rigidly mounted on the end of the housing 2 which is provided with ears 3 for the bolts 4.

The motor indicated at 5 is provided with a shaft 6 having an unbalancing weight 7 thereon so that the motor rotates, vibrations are imparted to the tamping blade or tool 1.

The handle comprises a pair of spaced bars 8 connected in spaced relation by the cross pieces 9 and 10, the handle bar or grip 11 being secured between the upper ends of the bars 8.

The handle carries a support member 12, preferably a strip of leather or rubber belting, one end of this strip of belting being looped around the cross piece 9 while the other is looped around the cross piece 13 carried by the slide 14. This slide is provided with outwardly facing channel portions 15 embracing the bars 8.

The bolt 16 is arranged through the slide and the cross piece 10, the slide being adjusted by means of this bolt to tension the support.

The housing 2 is provided with attaching ears 17 which are secured to the support by means of clamps 18, these clamps and the clamping bolts 19 engaging the ends of the strap constituting the support, as shown in Fig. 3.

This flexible support provides a shock or vibration absorbing means, at the same time it does not materially decrease the efficiency of the implement.

Desired pressure may be applied to the tool and the tool may be handled and directed very effectively.

In the embodiment shown in Fig. 4, I illustrate my improvements as adapted to a machine for tamping or "puddling" concrete, this being an adaption of my improvements to the structure of my application for Letters Patent filed December 12, 1927, Serial No. 239,568. The vibrating unit designated generally by the numeral 20 is mounted upon a flat shoe or foot block 21 which is in turn connected to a support 22 carried by the handle 23, the support functioning as in the structure shown in Figs. 1, 2 and 3.

I have not attempted to illustrate or describe further embodiments or adaptations as it is believed that this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired.

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

1. In a structure of the class described, the combination with a motor housing, of a motor disposed in said housing and provided with a shaft having an unbalancing weight thereon, a tool mounted on said housing, a handle comprising a pair of spaced bars and coacting spaced cross members, a flexible support member connected at one end to one of said cross members of said handle, an adjusting slide connected to the other end of said support and slidably mounted on said bars, an adjusting bolt adjustably connecting

said slide to the other cross member of said handle, said housing being provided with a pair of spaced attaching ears, and clamps for securing said attaching ears to said support.

2. In a structure of the class described, the combination with a motor housing, of a motor disposed in said housing and provided with a shaft having an unbalancing weight thereon, a tool mounted on said housing, a handle comprising a pair of spaced bars and coacting spaced cross members, a flexible support member connected at one end to one of said cross members of said handle, an adjusting slide connected to the other end of said support and slidably mounted on said bars, and an adjusting bolt adjustably connecting said slide to the other cross member of said handle, said housing being connected to said support intermediate its ends.

3. In a structure of the class described, the combination with a motor housing, of a motor disposed in said housing and provided with a shaft having an unbalancing weight thereon, a tool mounted on said housing, a handle, a flexible support member connected at one end to said handle, an adjusting slide connected to the other end of said support and slidably mounted on said handle, means for adjusting said slide, said housing being provided with a pair of spaced attaching ears, and clamps for securing said attaching ears to said support.

4. In a structure of the class described, the combination with a motor housing, of a motor disposed in said housing and provided with a shaft having an unbalancing weight thereon, a tool mounted on said housing, a handle, a flexible support member connected at one end to said handle, an adjusting slide connected to the other end of said support and slidably mounted on said handle, and means for adjusting said slide, said housing being carried by said support.

5. In a structure of the class described, the combination with a motor housing, of a motor disposed in said housing and provided with a shaft having an unbalancing weight thereon, a tool mounted on said housing, a handle, and a flexible support member connected at its ends to said handle, said housing being mounted on said support in substantially spaced relation to its connections to said handle.

6. In a structure of the class described, the combination with a motor housing, of a motor disposed in said housing and provided with a shaft having an unbalancing weight thereon, a tool mounted on said housing, a handle, and a flexible support connected at its ends to said handle and provided with tensioning means, said housing being connected to said support intermediate the ends thereof.

7. In a structure of the class described, the combination of a vibrating means having a tool operatively associated therewith, a handle, a flexible support member connected at one end to said handle, and an adjustable tensioning connection for the other end of said support to said handle, said vibrating means being mounted on said support in spaced relation to the ends thereof.

8. In a structure of the class described, the combination of a vibrating means having a tool operatively associated therewith, a handle, and a flexible support member connected at its ends to said handle, said vibrating means being mounted on said support in spaced relation to the ends thereof.

9. In a structure of the class described, the combination with a vibrating means and a tool operatively associated therewith, of a handle, a flexible strap-like support connected at its ends to said handle, and a tensioning means for said support, said vibrating means being secured to said support intermediate its connections to said handle.

10. In a structure of the class described, the combination with a vibrating means and a tool operatively associated therewith, of a handle, and a flexible strap-like support connected at its ends to said handle, said vibrating means being secured to said support intermediate its connections to said handle.

11. In a structure of the class described, the combination with a vibrating means and a tool carried thereby, of a handle, a flexible support connected at its ends to said handle, said vibrating means being mounted on said support intermediate its points of connection to said handle, and means for tensioning said support.

12. In a structure of the class described, the combination with a vibrating means and a tool carried thereby, of a handle, and a flexible support connected at its ends to said handle, said vibrating means being mounted on said support intermediate its points of connection to said handle.

In witness whereof I have hereunto set my hand.

CORWILL JACKSON.