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BUCKING MACHINE FOR FOOTBALL PLAYERS

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Fig. 1.

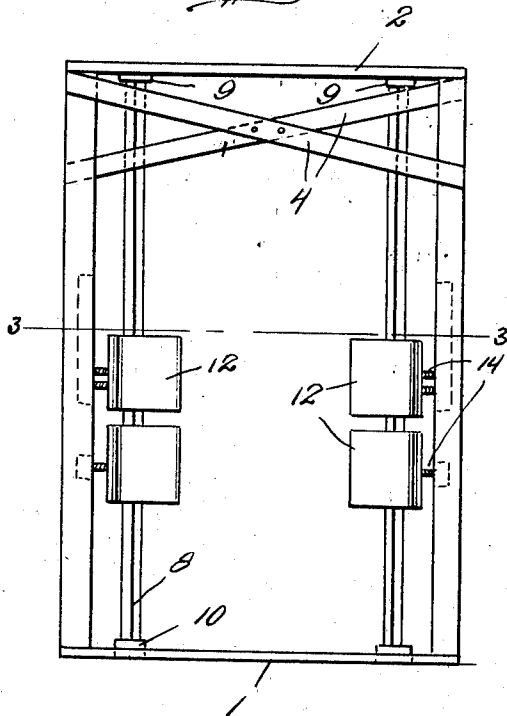


Fig. 2.

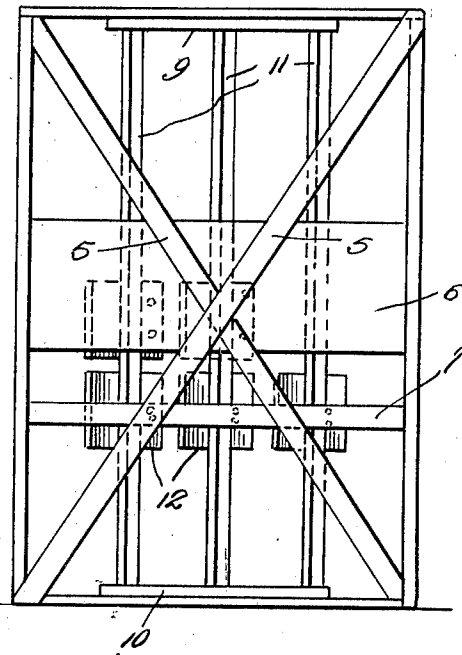
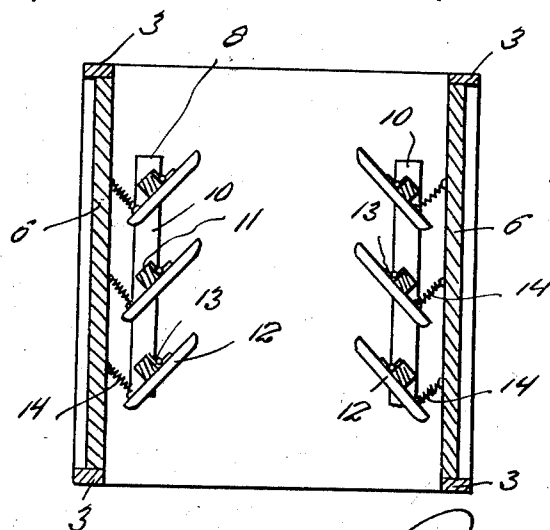


Fig. 3.

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BUCKING MACHINE FOR FOOTBALL PLAYERS

Refile of abandoned application Serial No. 695,273, filed February 26, 1924. This application filed September 12, 1929. Serial No. 392,277.

This application is a refile for applicant's abandoned application, Serial No. 695,273, filed February 26, 1924.

This invention relates to machines used for football players, and known as bucking machines, adapted for use in training football players.

An object of the invention resides in providing a frame having the forward and rear ends thereof open and mounting a plurality of bucking plates for rocking movement on uprights secured in the frame, resilient means being provided for retaining the bucking plates in a normal position in the frame, for obstructing the passage through the same, in order to provide a means of resisting charging of a football player through the frame and between the bucking plates to simulate the resistance offered in charging a line in playing a football game, for the purpose of acquainting the player with the condition normally resisting his advance in play.

Another object of the invention is to hingedly mount a plurality of bucking plates in a suitable housing and leaving a restricted passage between the plates through said housing, the plates being arranged so that some of the plates will engage the hips of a player, while the other plates are positioned to engage the shoulder of the player, in charging through the machine, in order to offer resistance at the shoulder and hip portion to the charge of the player through the machine.

The invention also includes other objects and advantages in the details of construction and arrangement of the parts, which are more particularly pointed out in the following description and claims, directed to a preferred form of the invention, it being understood, however, that variations may be made within the scope of the description and claims, as hereinafter set forth.

In the drawings, forming a part of this application:

Figure 1 is a view of the front end of the charging machine.

Figure 2 is a side elevation thereof, and,

Figure 3 is a sectional view, on the line 3-3 of Figure 1.

The bucking machines includes a base 1, a top 2, connected to the base by the corner post 3, adapted to form the main frame of the machine which is reinforced at the forward and rear end by diagonal bracing members 4, and at opposite sides by the diagonal bracing members 5. It will be noted that the bracing members 4 are arranged at the top portion of the frame, so as to not obstruct a free passage between the front and rear thereof, which remains open, while the bracing members 5 at the side portions of the frame extend diagonally from the upper corners to the lower corners, so that a substantially light frame work is provided, what at the same time is sufficiently strong to withstand strain to which it is subjected, so that a convenient type of bucking machine is provided which may be readily transported from place to place, and secured by any suitable anchoring means extending through the base for holding the same in position while in use.

A pair of horizontal side members 6 and 7 are mounted in each side of the frame of the machine, and a pair of bucking frames indicated at 8, are mounted in vertical spaced relation between and adjacent the sides of the frame. These bucking frames include upper and lower horizontal bars 9 and 10 respectively, adapted to be secured to the top and bottom of the main frame, the bars being connected by a plurality of spaced uprights 11, for a purpose to be described.

A plurality of bucking plates indicated at 12, are hingedly connected to the uprights in the central portions as indicated at 13, there being three bucking plates at opposite sides of the frame, one secured to each of the three bars, and in line with the hips of the player charging through the frame, in order to engage and resist the player at the hip portion, while two plates 12 are secured above the three plates and in line on the last or rear two of the uprights, in line with the shoulder of the player, adapted to engage and resist the passage of the player at his shoulder through the machine.

These plates will be hereinafter mentioned as hip bucking plates and shoulder bucking plates, it being noted that there are no should-

ders on the forward upright, in view of the fact that the player in charging the machine is inclined forwardly so that his shoulders and hips will engage the shoulder plates of the second upright, while his hips will engage the hip plates on the first upright at substantially the same time.

It will be noted that the uprights are square in cross section, having the sides arranged in angular relation in the frame, in order to provide a stop for the movement of the bucking plates 12, so that they are positioned in inclined relation in the frame, the plates at the opposite sides thereof being inclined relatively inwardly and rearwardly as shown in Figure 3, and normally held in this position by tension springs 14, secured to the side bars 6 and 7, and to the forward end of the bucking plates 12, in any desirable manner.

It is to be understood that the positioning of the bucking frame 8 carrying the plates 12 may be positioned in any desirable relation within the frame, and are adaptable to be changed to vary the spacing thereof for increasing the difficulty or resistance to a player charging through the machine. It is also to be understood, that if desired, a greater number of uprights may be placed in the bucking frame, with a correspondingly greater number of bucking plates, in order to increase the resistance of passage to a player charging the machine.

From the foregoing description, it will be clear that a simple and efficient charging machine has been provided for the use of foot ball players in training preparatory to a football game, which will give a character of resistance to simulate that experienced in charging a line in playing a football game.

The player will charge through the central portion of the frame, from the forward, toward the rear end thereof, so that the shoulders and hips will engage the ends of the plates extending into the central portion of the passage which will effect a movement of the plates about the hinges 13, as the player passes through the machine which will be resisted by the operation of the springs 14.

It will thus be seen that a novel form of bucking machine has been provided for foot ball players, adapted for training purposes, and which is simple in construction, as well as sufficiently light to make it readily portable from place to place, when it is desired to use the same.

Having thus described my invention, what is claimed is:

1. A bucking machine including a frame having a top and a base secured in spaced relation by a corner post, diagonal bracing members at the sides of the frame, a pair of bucking frames mounted in the first mentioned frame between the top and the base thereof, and in relative spaced relation, said frames being adjustable toward or away

from each other, and a plurality of bucking plates movably mounted on one of said bucking frames, and resisting means connected to said bucking plates and the first mentioned frame adapted for resisting the movement of the plates in the frame, whereby a foot ball player charging through the frame is engaged by said bucking plate and resisted in his passage therethrough.

2. A bucking machine including a main frame having a top portion and a base portion arranged in spaced relation and connected by a corner post at the corner portion thereof, diagonal bracing means secured to said corner post and extending diagonally therebetween for cooperation to strengthen the main frame structure, side members arranged in spaced parallel relation between the uprights at each side of the main frame, a pair of bucking frames arranged in vertical relation in said main frame and spaced relative to one another to provide a passage therebetween, one of said bucking frames including a pair of end bars connected to the top and the base of said main frame, and adapted for adjustment to increase or decrease the passage therebetween, said bars being connected by a plurality of spaced uprights, a plurality of bucking plates hingedly mounted intermediate their ends on said uprights, certain of said plates being arranged in horizontal alignment on said uprights to form hip engagement plates, and the remainder of said plates being arranged in horizontal alignment on said uprights to form shoulder plates, the bucking plates being limited in their hinging movement, and resilient members connected to respective bucking plates and anchored to said side members for holding said plates against the limit of movement, said plates inclining inwardly and rearwardly at the limit of movement for restricting the passage between the bucking frames, whereby the football player charging the machine will have his shoulders and hips engaged by the shoulder and hip bucking plates respectively for resisting his charge through the machine.

In testimony whereof I affix my signature.

ERNEST E. BRETT.