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2,053,635

BASKETBALL GOAL

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Fig. 1

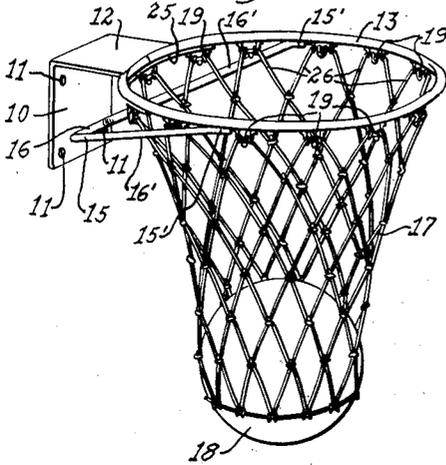


Fig. 3

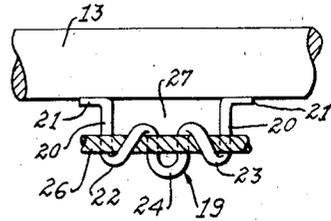


Fig. 4

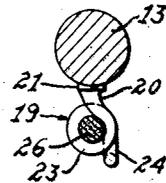


Fig. 2

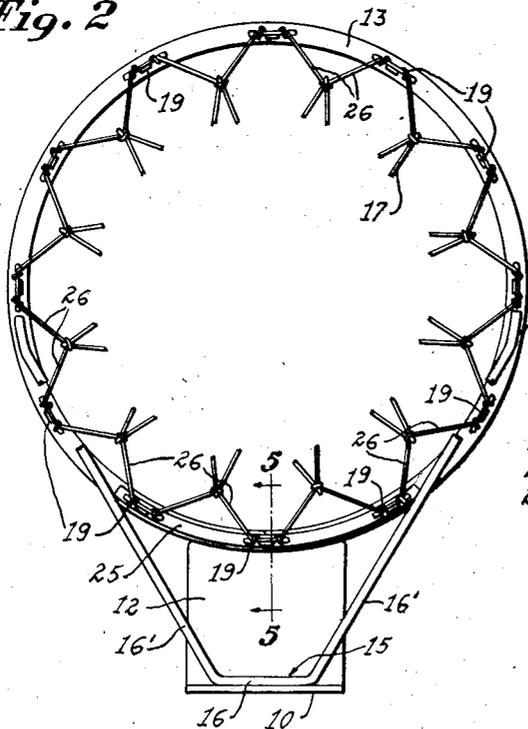
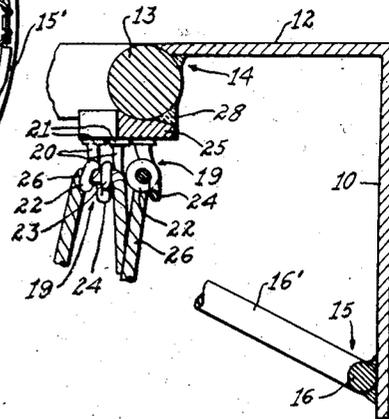


Fig. 5



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BASKETBALL GOAL

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2 Claims. (Cl. 273-1.5)

This invention relates to new and useful improvements in basket ball goals, and the primary object of my invention is to provide a series of tieless net-attaching devices that may be integrally secured to the bottom of the goal ring, and by means of which the net may be readily and quickly attached to and detached from the ring manually, without requiring any lacing cord, tie cord, or other separate fastening devices.

Another object is to provide net-attaching devices, preferably formed of wire, which, when the upper or top loop cord sections of the net are confined therein, permit sliding movement of said confined loop sections with respect to said attaching devices without undue strain or friction, lack of friction being due largely to the fact that the wire from which the attaching devices are formed is round.

A further object of my invention is to provide a reinforcing bar under the rearward portion of the goal ring, said bar being curved to conform to the curvature of said ring and being permanently secured to said goal ring, preferably by welding said bar to said ring. The effect of this is to strengthen said goal ring at the point where the greatest strain is imposed upon said ring caused by vibration created by the impact of the basket ball against said ring and against said net, which is the greatest source of destruction to which basket ball goals are subjected. By this reinforcement the goal ring at or near the point of attachment to the bracket is strengthened and the life of the goal is very materially lengthened over the life of a goal ring not supplied with such reinforcing bar. Several of the net-attaching devices may be integrally attached to the lower face of this reinforcing bar, and any vibration communicated to these attaching devices when the ball enters the net is transferred to the ring and then to the reinforcing bar.

With the foregoing and other objects in view, the invention comprises the novel construction, combination, and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawing, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations, and modifications can be had which will come within the scope of the claims hereunto appended.

Fig. 1 is a perspective view of my improved basket ball goal.

Fig. 2 is a bottom view of my improved basket ball goal, with part of the goal net broken away.

Fig. 3 is an enlarged, detail view of one of my improved tieless net-attaching devices.

Fig. 4 is an enlarged, cross-sectional view taken through one of the tieless net-attaching devices and the goal ring to which the same is secured.

Fig. 5 is a view taken on line 5-5, Fig. 2, through the bracket and goal ring, showing the

reinforcing bar applied to the underside of said goal ring, with two of the tieless net-attaching devices secured to said reinforcing bar, one of which is partly in section.

In the drawing, 10 designates a bracket adapted to be securely attached to a supporting wall by bolts (not shown) passing through apertures 11 in said bracket. An outwardly extending plate 12 is integral with the upper part of the bracket 10, and to its outer edge a goal ring 13 is rigidly secured, preferably by welding top and bottom as shown at 14 in Fig. 5. The top weld in this view has been ground down flush with the top of the plate 12 and the goal ring 13, hence does not show in the drawing. The goal ring 13 is additionally supported by the bracket 10 through the member 15, which is securely fastened at its inner portion 16 to the bracket 10. The diverging outer ends or arms 16' of the member 15 are welded as at 15' to the under portion of the goal ring 13 and at a point nearly midway of said goal ring. The member 15 inclines upwardly from its point of attachment to the bracket 10 to its point of attachment at the underside of the goal ring 13, so that vibration transmitted to the goal ring 13 partly passes through the member 15 to the bracket 10.

A goal net 17 is of standard cord construction, and a standard basket ball 18 is shown in Fig. 1 in the bottom of the goal net.

The attaching portion of the upper or top loop sections of the cord 26 from which the goal net 17 is formed are most clearly shown in Fig. 3. I form my attaching device out of wire, cylindrical in cross-section, bent into right and left loops. I have generally designated this attaching device by the reference character 19. Upwardly extending legs 20 are bent outwardly as at 21, and are welded at this point to the under portion of the goal ring. Three of these attaching devices, illustrated in Figs. 2 and 5, are attached to the reinforcing bar 25 welded to the under, rear portion of the goal ring. Right and left loops 22 and 23 are formed in the attaching device 19 between the legs 20, said loops terminating in the central, looped member 24 which is preferably extended downwardly somewhat below the lower portion of the loops 22 and 23. In order to secure the upper or top loop cord sections in the attaching devices 19, the cord 26 is bent manually so that it can be threaded through the portion 27 above the loops 22 and 23, and then the outer loop portion of the cord 26 is brought downwardly and passed beneath and inside the looped member 24, after which the cord 26 is permitted to straighten out as shown in Fig. 3, thereby securely attaching the goal net 17 to the goal ring 13 within the loops 22 and 23 and the member 24 when each of the upper or top loop cord sections has been secured to an attaching device.

In order to remove the goal net 17 from the

goal ring 13, the upper or top loop section of the goal net 17 is gripped at the center portion as shown in Fig. 3, and brought down and under the looped member 24 and passed outwardly over said member 24 and over the loops 22 and 23, thus freeing the cord 26 from its connection with said attaching device 19.

The reinforcing bar 25 is preferably flat on its upper and lower faces and is welded, as at 28, at its upper face to the lower rear portion of the goal ring 13. Such welding may extend preferably throughout the entire length of the reinforcing bar. Three of the attaching devices 19, as shown most clearly in Fig. 2, are secured to the lower face of the reinforcing bar 25. The reinforcing bar 25 extends some distance beyond the sides of the outwardly extending plate 12, as shown most clearly in Fig. 2.

The basket ball goal according to official standard requirements extends from the end of the bracket 10 to the extreme forward portion of the goal ring 24 $\frac{5}{8}$ inches. The forward portion of the goal ring is frequently struck by the ball, which with the speed of the throw plus the weight of the ball represents a considerable striking force, creating severe vibrations. This causes a strong vibration in the goal ring 13, which vibration tends to break said goal ring at a point adjacent to its connection with the outwardly extending plate 12 on the bracket 10. By the provision of the supporting member 15 and the reinforcing bar 25, the vibration in the goal ring 13 caused by the impact of the ball against the goal ring is taken up by these devices and the destructive effect of such vibration is very largely

reduced by virtue of the co-operative relationship of these devices each with the other.

It is thought the many advantages of my improved basket ball goal in accordance with this invention can be readily understood, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the details of construction can be had which will fall within the scope of the invention as claimed.

I claim:

1. A basket ball goal comprising a ring, a bracket for supporting said ring, a net suspended from said ring, and means for attaching said net to said ring, said means comprising a pair of spaced spiral portions within which a portion of said net is disposed and a looped portion interposed between said spiral portions for preventing lateral displacement of said portion of said net from said means while permitting longitudinal sliding movement of said net portion while disposed within said means, said portion of said net being movable laterally into said spiral portions.

2. A basket ball goal comprising a goal ring, a bracket for supporting said goal ring, a supporting member secured to said goal ring and said bracket, a goal net secured to said goal ring, a reinforcing bar integral with said goal ring at its point of attachment to said bracket and on the underside thereof and extending beyond the side edges of said bracket, and spiral attaching devices for holding said goal net to said goal ring, said devices being secured to the underside of said goal ring and said reinforcing bar, substantially as described.

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