

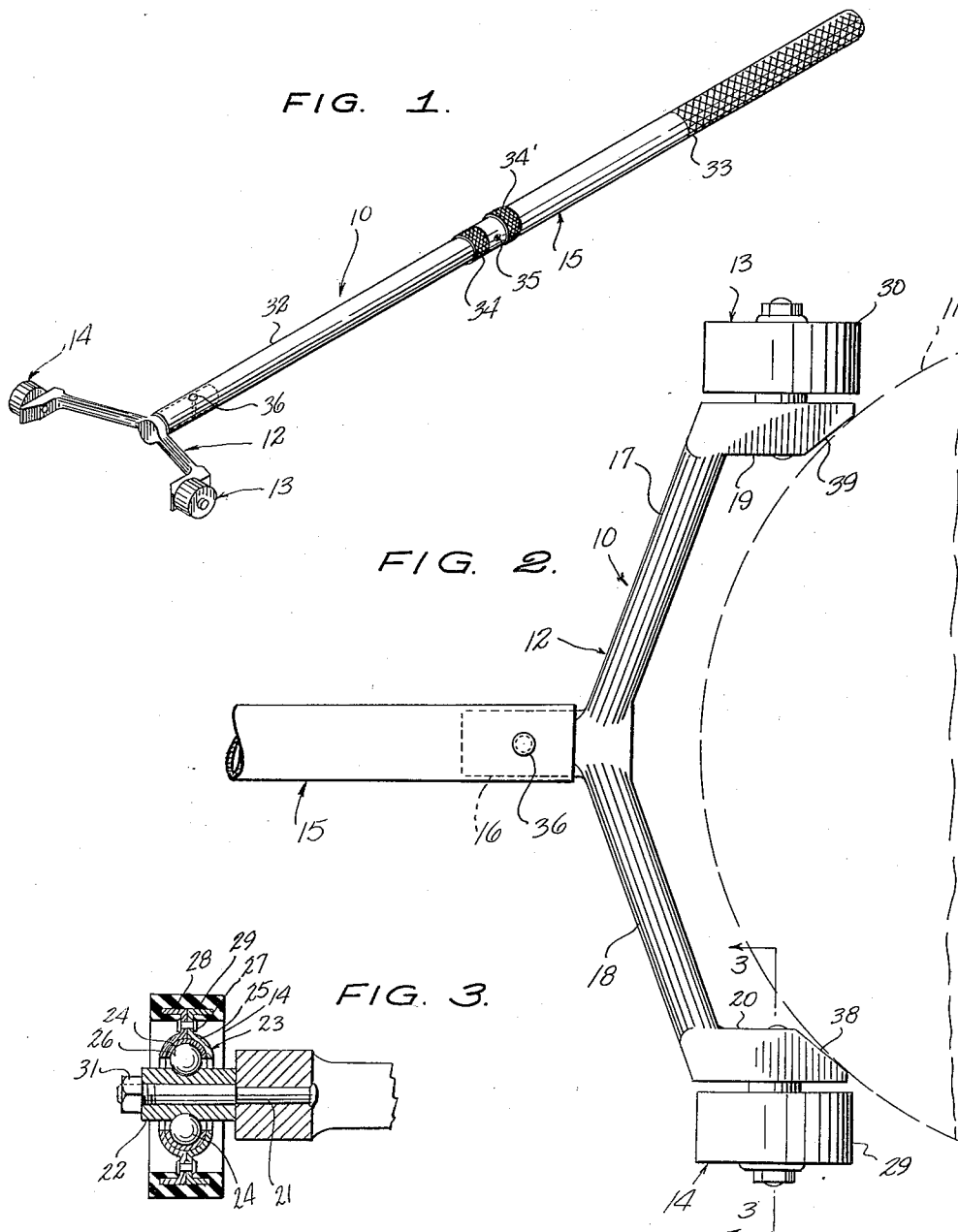
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MOBILE DISK PROJECTOR FOR SHUFFLEBOARDS

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MOBILE DISK PROJECTOR FOR
SHUFFLEBOARDS

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1 Claim. (Cl. 273—129)

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This invention relates to a projector for a game, and more particularly to a mobile projector for use in the game of shuffleboard.

An object of this invention is to provide a mobile projector for use by a player in the game of shuffleboard which will not wear out due to constant frictional engagement with the playing surface traversed.

Another object of this invention is to provide a mobile projector for use in the game of shuffleboard which may be readily disassembled for convenient portability.

A further object of this invention is to provide a mobile projector for the game of shuffleboard which is simple in structure and cheap to manufacture.

Other objects of the invention will become apparent upon consulting the following specification in conjunction with the drawings.

In the drawings:

Figure 1 is a perspective view of the mobile projector of the present invention.

Figure 2 is an enlarged top plan view of the disc engaging frame of the mobile projector of the present invention as applied to a shuffleboard disc.

Figure 3 is a sectional view taken along the line 3—3 of Figure 2.

Referring now more particularly to the drawings wherein like reference numerals have been used throughout the several views to designate like parts, there is shown the mobile projector of the present invention, generally designated by the numeral 10, as applied to a shuffleboard disc 11, the projector 10 comprising a disc engaging frame 12 having opposed wheels 13, 14 rotatably journaled on opposite ends thereof, and a handle 15 fixedly secured intermediate the ends of said frame and extending rearwardly thereof.

The frame 12 includes a tubular shank 16 having one end adapted to be embracingly received and supported within the handle 15, and having the other end carrying a pair of outwardly diverging arms 17, 18, the arms being disposed in substantial end to end relation with respect to each other and having their confronting ends fixedly secured to opposite sides of the shank 16. Positioned adjacent the free outer end of the arm 17 and having one end fixedly secured thereto is a lug 19. Rotatably supported in side by side spaced relation exteriorly of the lug 19 is the wheel 13. Similarly there is provided a second lug 20 fixedly secured to the free outer end of the arm 18 and extending forwardly therefrom, the second lug 20 being disposed in opposed

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relation with respect to the lug 19 and rotatably supporting the wheel 14 exteriorly thereof. The confronting faces of the lugs 19, 20 adjacent the free forward end thereof are each arcuately cut out inwardly, as indicated at 38, 39 to form bearing surfaces for engagement with the adjacent peripheral portions of the disc 11. As may be particularly noted from Figure 2, the arcuately cut-away surfaces 38, 39 extend substantially through the full width of the lugs, the front terminal of said surfaces being spaced quite closely from the outer walls of the lugs.

Referring now more particularly to Figure 3, there is shown the rotatable support for the wheel 14. Since the rotatable support for each of the wheels 13, 14 is of like structure, it will suffice to describe only one in detail. Extending outwardly from the lug 20 and having one end fixedly secured thereto is a stub shaft 21, the other end of the stub shaft slidably receiving and supporting a hub 22. The stub shafts are disposed immediately rearwardly of the rear or inner termini of the surfaces 38, 39. Threadedly engaging the outer end of the stub shaft 21 is a threaded bolt 31 for detachably securing the hub 22 on the shaft 21. The wheel 14 is rotatably supported on the hub 22 in close proximity to the outer wall of the lug by means of a bearing race 23 which cooperates with the hub 22 to provide a chamber for the reception of the ball bearings, generally designated by the numeral 24. The roller or wheel 14, as seen from Figure 2, is substantially equal in diameter to the length of its associated lug, and the construction described thus provides a rollable support for the lug in which the point of contact with a game court is spaced quite closely from the contact point between the lug and a game piece 11 supported upon said court.

It is to be noted that the bearing race 23 includes a pair of confronting sections 25, 26 secured intermediate their ends by a rivet 27 and having the outer ends thereof bent into end to end divergent relation thereby providing a supporting flange 28 for the rubber tire 29 of the wheel 14. The wheel 13 is similarly rotatably supported with the tire 30 thereof supported by means of a like bearing race, not shown.

The handle 15 includes a pair of hollow tubular sections 32, 33 disposed in end to end confronting relation with respect to each other, the confronting end of the tube 32 being slidably received and supported within the tube 33. Secured adjacent to and spaced from the confronting end of the tube 32, is an exteriorly knurled gripping ring 34 which has one end face adapted

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to abut against the confronting end face of the tube 33 to thereby limit the portion of the tube 32 slidably received within the tube 33. Fixedly secured adjacent to and spaced from the confronting end of the tube 33, is a second externally knurled gripping ring 34'. Extending transversely of the tube 33, intermediate the gripping ring 34' and the confronting end thereof, is a screw 35 which is engageable with the supported end of the tube 32. Accordingly the tube 32, 33 may be readily assembled to form the handle 15. To disassemble the handle, it is merely necessary to bring the screw 35 out of engagement with the supported end of the tube 32, grasp the gripping rings 34, 34', and urge the confronting end of the tube 32 out of supported relation within the tube 33.

The other end of the tubular section 32 slidably receives and supports the tubular shank 16 of the frame 12, the shank 16 being fixedly positioned with respect to the tubular section 32 by means of a transversely extending bolt 36.

In view of the foregoing it is readily apparent that the mobile projector 10, can be readily assembled or disassembled and is of a light durable structure. Numerous modifications of the projector of the present invention may be made without departing from the spirit of the invention as set forth in the appended claim.

What I claim is:

A shuffleboard cue head comprising a pair of rigidly connected diverging arms; lugs integral at one end with and extended forwardly from the divergent ends of the respective arms, the inner

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walls of the lugs being cut away arcuately at the free ends of the lugs to provide surfaces proportioned to engage a circular game piece at locations spaced circumferentially thereof, said surfaces extending through substantially the full width of the lugs, the outer walls of the lugs being straight and parallel fully from end to end of the lugs; stub shafts secured to the lugs immediately rearward of said surfaces and extended outwardly from the outer walls of the lugs; and rollers substantially equal in diameter to the length of the lugs and rotatably mounted on the stub shafts in close proximity to said outer walls of the lugs, whereby to provide contact points spaced closely from said arcuate surfaces between said rollers and a game court on which said game piece is supported.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

25	Number	Name	Date
	998,318	Young	July 18, 1911
	1,463,084	Hudson	July 24, 1923
	1,600,669	Hearn	Sept. 21, 1926
	1,790,238	Klein	Jan. 27, 1931
30	2,239,391	Krause	Apr. 22, 1941
	2,328,988	Martin	Sept. 7, 1943
	2,435,855	Von Pein	Feb. 10, 1948
	2,474,723	Boose	June 28, 1949