

Manual backlit target with filter

Description

Backlit manual target with useful filter to illuminate a paper target in order to allow the observation of light through the hole made by the ball after the shot of the Olympic shooter and visualize the result of the roll in a simple and fast way using an optical system with LED at the base of the shot reception post.

How does it work?

The present invention relates to a backlit manual target with filter consisting of a post (1) with a sheet metal terminal (2) painted in black and inclination of 45°. In the base (6), lower area of the pole (1) includes an optical system (3) that includes LEDs (4) and an automation system to intercept filters (5) of different colors according to the run.

For this, the equipment is characterized in the present invention by a post (1) stable with a wide base (6) of rigid metal with 4 screws to screw to the ground, level and adjust height of the target according to the regulations of Olympic shooting, with a terminal of sheet metal (2) welded to a pole (1) to attach it to the wide base (6). On the wide base (6) an optical system is installed (3) that is aligned with the sheet metal terminal (2) for a simple observation of the success in the paper target that is interposed in front of the backlit manual target with filter. This shows the hole illuminated in a color predetermined by the automation system to intercept the filters (5). This optical system (3) with LED (4) is connected to electric power and switch (7) is used for its off and on.

In the method of realization of the manual backlit target with filter dark steel is used that constitutes the part of the post (1) complete of a size in the wide base (6) of 40x30 cm with a thickness of 8 cm with a post (1) of diameter of 5 cm and length of 140 cm and the sheet terminal (2) of 20x15 cm and a thickness of 0.5 cm. On the wide base (6) is hermetically installed an optical system (3) with LED (4) that is covered with a transparent surface for protection against dust, scratching and other abrasive elements with an exposed side switch (7) for ignition of the lighting system. In the area before the sheet (2) a blank (8) is placed.

Advantages

Improves the vision of the score in precision shooting competition using lighting system and filters

Where has it been developed?

In the Faculty of Optics and Optometry of the Complutense University of Madrid.

And moreover

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