To all whom it may concern:

Be it known that I, Joseph S. Piga, a citizen of the United States, residing at Owendale, in the county of Huron and State of Michigan, have invented certain new and useful Improvements in Chalkless Billiard-Cue Tips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to billiard cue tips, and has for one of its objects the provision of an article of this character which will not require the use of chalk in order to prevent its slipping on a billiard ball when a player is making a shot, and to attain this end I provide a tip having a roughened impact end.

A further object of the invention is the provision of a cork tip for billiard cues having a roughened impact end.

A still further object of the invention is the provision of a novel and simple process of providing a cork tip for billiard cues with a roughened impact end.

In the accompanying drawing forming a part of this application:

Figure 1 is a view in side elevation of a fragmentary portion of a billiard cue provided with a tip embodying my invention,

Figure 2 is a side elevation of a fragmentary portion of a billiard cue provided with a slightly modified form of the tip,

Figure 3 is a view in side elevation of the blank from which the tip is made, and

Figure 4 is a sectional view of the cork slab from which the blank is made.

Referring to the drawing by reference numerals, I designate the forward portion of the billiard cue and 2 my improved tip. The tip 2 is of cylindrical formation and it may be provided with a plain impact end 3 as shown in Figure 1 or with a convex impact end 4 as shown in Figure 2. The tip 2 is made from cork having a minutely roughened texture provided by subjecting the cork to the action of muriatic or any other suitable acid.

In practice, I stamp up cylindrical blanks 5 from a slab 6 of cork. Blanks 5 are subjected to the action of muriatic or any other suitable acid until their texture is minutely roughened, after which they are dried without the use of artificial heat. I have learned from actual experience that the desired roughening of the texture of the blanks may be produced by subjecting the blanks to a muriatic acid bath for a period of twenty minutes. If the impact end of the tip is to be of convex formation, said end may be provided either before or after subjecting the blanks to the action of the acid.

The minutely roughened texture of the tips prevents them from slipping on a billiard ball when a player is making a shot, and owing thereto the use of chalk is unnecessary. As the entire texture of the tip is rough, the impact end thereof may be trimmed from time to time without reducing its nonslipping characteristic, and as the roughness of the texture is of minute formation accurate shots may be made with a billiard cue equipped with the tip.

What is claimed is:

1. A billiard cue tip made of cork having a roughened texture, produced by the corrosive action of an acid.

2. The herein described process of making cork tips for billiard cues, consisting in first forming a blank of cork, treating the blank with acid, and drying the blank.

3. The herein described process of making cork tips for billiard cues, consisting in treating a blank of cork to a muriatic acid bath, and then drying the blank without the use of artificial heat, the resultant product having a minutely roughened texture.

4. A billiard cue tip consisting of cork having a texture altered by the action of an acid.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH S. PIGA.

Witnesses:
S. D. McGRGORD,
FREDA MUENTENER.