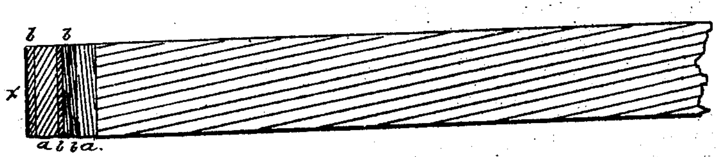
J. A. Veazie.

Billiard-Cue Tip.

No. 71925 Patented Dec. 10, 1867.



Witnesses

S. N. Piper.

Jas. H. Mullen

Jos. A. Veazie

by his attorney.

R. H. Eddy

United States Patent Office.

JOSEPH A. VEAZIE, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 71,925, *dated December* 10, 1867.

IMPROVEMENT IN BILLIARD-CUE TIPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, JOSEPH A. VEAZIE, of Boston, of the county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Billiard-Cue Tips; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, which denotes a section of a cue-tip, as made of strata of leather and vulcanized India rubber, and in other respects in accordance with my invention.

Common cue-tips are usually made of leather, and especially of sole-leather. While in use, they soon become indurated and worn smooth, so as to require chalk to be rubbed on them to give them what billiard-players term a proper "hold" of the ball. It is very desirable to avoid such use of chalk, on account of the marking of the cloth of the billiard-table by it, such requiring frequent cleaning, and consequent wear of the cloth.

My invention is designed to do away with such employment of chalk. To such end I substitute for the leather tip one made of strata or layers of leather and India rubber, preferring what is termed vulcanized India rubber, such being as shown in the drawing, in which *a a* denote the layers of leather, and *b b* those of India rubber, they being arranged one on the other, and cemented together. The outer layer or sheet which is to operate directly against a billiard-ball while the cue may be in use, is to be coated with a composition covering, *x*, composed of the following ingredients, in or about in the proportions hereinafter set forth.

The said composition is to consist of caoutchouc, in its normal condition, or vulcanized, fifty parts; tanned leather, finely ground, twenty-five parts; refined chalk, fifteen parts; crocus, finely ground, five parts; emery, powdered, five parts. The rubber is to be dissolved in a suitable solvent which will enable it to mix with the other ingredients, and form with them a paste which may be moulded or cast in a mould, and, when dry, will be elastic. Sand, gypsum, and pumice-stone may be substituted for the chalk, crocus, and emery, and either of the same may be used with the caoutchouc, or with it and leather without the others, but I prefer to employ the crocus and emery with the chalk in making the composition, as I have reason to believe it is productive of the best results when so made. I have discovered that the crocus, when combined or mixed with the ground leather, the rubber, emery, and the chalk, makes the composition better than when chalk only is used with the leather, emery, and rubber or elastic gum, or vehicle for connecting the earthy materials and ground leather. The ground leather is used to temper or deaden the elasticity of the rubber, and the emery is employed in a very small quantity, in order to insure hold of the ball in carom-strokes, when the two balls to be struck by the ball are nearly at a right angle with the course of the striking-ball. It will not answer to use much emery in the composition, on account of its wearing effect on the balls and table-cloth.

I do not confine the ingredients of the composition to the precise proportions as heretofore given, as they may be varied somewhat, without changing the character of the composition, or so as to render it more or less elastic, or give it more or less holding properties, as different players may desire. The whole tip may be made of the composition composed of India rubber or its equivalent and one or more other materials, substantially as described, but I prefer to make the tip of layers of the rubber and leather, or the equivalent of the latter, and coat the external layer of the tip with a covering of the composition, which may be applied to it when the composition is in a tacky state, or by cementing the composition when dry to the said outer layer.

My improved cue-tip will not spread, harden, and batter up, as will a leather tip; and besides, it is more elastic, and enables the cue to be used to better advantage by a player.

I am aware of the composition described in the British Patent, No. 1,809, for the year 1859, such composition being employed for the formation of tips for cues; consequently, I make no claim to such. I use, with the caoutchouc, chalk, and the earthy or metallic substance or substances or equivalents therefor, constituting the said composition, a quantity of ground tanned leather, which I employ for the purpose above specified, and, in consequence, I make a very much better cue-tip.

I claim, therefore, as my invention, the following:

I claim the new or improved composition, substantially as described, in which ground leather is an important constituent.

I also claim the combination of a layer of such composition and one or more layers or strata of leather or caoutchouc, or both, such being for the formation of cue-tips, as explained.

JOSEPH A. VEAZIE.

Witnesses:

R. H. EDDY,

SAMUEL N. PIPER.