

UNITED STATES PATENT OFFICE.

ROBERT H. WILLIS, OF CHICAGO, ILLINOIS.

ADHESIVE CEMENT AND PROCESS OF MAKING SAME.

SPECIFICATION forming part of Letters Patent No. 694,045, dated February 25, 1902.

Application filed July 3, 1901. Serial No. 66,981. (No specimens.)

To all whom it may concern:

Be it known that I, ROBERT H. WILLIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Cement, of which the following is a specification.

My invention relates to improvements in cement, and pertains to a cement which is especially adapted for securing canvas coverings to iron, wood, or composition pulleys.

The cement consists of the ingredients hereinafter named and compounded in the following manner and proportions: Soak twelve pounds of hide glue in cold water until swealed. Take one-half of a gallon of crude turpentine, one-half of a gallon of pine-tar, and eight pounds of rosin, place in an earthen vessel and heat over a slow fire until thoroughly melted and run together. The glue should then be placed in a large pot over a fire sufficient to boil water and add boiling water until the glue is thoroughly melted. The mixture of turpentine, tar, and rosin should then be gradually added to the glue and steadily stirred until thoroughly mixed. The cement can then be removed from the fire. It will congeal in about twelve hours, when it can be cut into cakes or slices convenient for handling.

In using my cement for securing canvas or

like material to pulleys I add boiling water to the cement until it is about the consistency of milk. I then apply it to the pulley, which should be previously cleaned with soda or a like substance. The pulley is then allowed to dry. Additional cement should be placed in the pot until the cement is of the consistency of thick molasses, when it is applied to the canvas as it is secured to the previously-prepared pulley.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The herein-described cement, consisting of glue, crude turpentine, pine-tar and rosin, in about the above-named proportions, substantially as described.

2. The herein-described process for manufacturing cement, consisting in soaking glue in cold water until swealed, then heating the said glue and adding the same while hot to a mixture of crude turpentine, pine-tar and rosin, while hot, in about the proportions above named, substantially as described.

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

ROBERT H. WILLIS.

Witnesses:

S. W. FOX,
EDWARD WARD.