

# United States Patent Office.

NELSON S. WHIPPLE, OF DETROIT, MICHIGAN.

*Letters Patent No. 104,520, dated June 21, 1870.*

## IMPROVEMENT IN GLUE OR CEMENT.

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

### *To all whom it may concern:*

Be it known that I, NELSON S. WHIPPLE, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Glue; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

My invention has for its object to furnish an improved glue for use upon wood, crockery, glass, marble, leather, metals, &c., which shall be simple in preparation, and will hold the parts to which it may be applied firmly in place, and which shall have a much greater adhesive power than any glue heretofore made; and

It consists in the glue, composed of the ingredients and prepared in the manner hereinafter more fully described.

In preparing this glue, I first dissolve five (5) pounds of common glue in one (1) quart of alcohol, and stir in one and a half ( $1\frac{1}{2}$ ) pound of dry pulverized white or red lead. To this I add one (1) quart of milk-curd prepared in the same manner as for making cheese, stirred up fine, and stirred into the mixture. I then add three-fourths ( $\frac{3}{4}$ ) of a pound of gum-shellac cut in alcohol, and one (1) pound of dry slaked lime. The mixture is thoroughly stirred, and is ready for use.

The proportional quantities of the above ingredients

may be varied within reasonable limits without affecting the quality of the glue.

By mixing the above ingredients without water or alcohol, and grinding or pulverizing them, and afterwards drying out the moisture imparted by the curd, a dry or flour glue will be produced.

As thus prepared, the glue must be dissolved in alcohol, enough alcohol being used to reduce it to the proper consistency for use. As thus prepared, the glue is water-proof.

This enables me to prepare the glue and put it into market in the form of a paste, or of a flour, as may be desired, or as the requirements of the trade may demand. It should be observed that this glue becomes wholly water-proof by using alcohol alone in its preparation, as the dissolving liquid.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

An improved glue prepared of the ingredients, and in the manner substantially as herein set forth and described.

The above specification of my invention signed by me this 16th day of May, 1870.

Witnesses: NELSON S. WHIPPLE.

GEO. W. MABEE,  
JAMES T. GRAHAM.