

UNITED STATES PATENT OFFICE.

JAMES H. CRAIG, OF INDIANAPOLIS, INDIANA.

IMPROVEMENT IN COMPOUNDS FOR GLUE.

Specification forming part of Letters Patent No. 177,474, dated May 16, 1876; application filed March 7, 1876.

To all whom it may concern:

Be it known that I, JAMES H. CRAIG, of Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Glue; 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 pertains to make and use it.

My invention relates to an improvement in glue; and consists in the ingredients compounded in the proportion and in the manner substantially as hereinafter set forth and claimed.

To prepare the said glue I take three pounds of common glue, and add to it two ounces of dry white lead, one ounce of precipitated chalk, and thirty drops of carbolic acid. I dissolve the three latter ingredients in a half pint of warm water; after it has dissolved I add it to common glue. The result is a very fine article of glue, very strong and adherent, impervious to air and water, and not liable to be altered by changes of temperature, or by changes in the weather. The carbolic acid serves to prevent decomposition. The English precipitated chalk serves to neutralize the effect of any acid that might arise by partial fermentation or otherwise, and, with the white lead, gives body to the glue. The compound is one also that will readily set, and is applicable for all purposes for which glue is ordinarily applicable, and, in addition thereto, forms a strong cement for broken earthenware, plate-glass, &c., without being objectionable, as ordinary glue is, on account of its offensive odor. I find, moreover, that any glues known to the trade are very materially improved by the

addition to them of the three last-named ingredients, and I do not, therefore, limit myself to the mixture of the three ingredients hereinbefore described. For, instead of employing common glue, I may employ any other ordinary glue, or any other glue known to the trade, the essential feature of my invention being a glue which possesses the three ingredients, dry white lead, English precipitated chalk, and carbolic acid; and these may be compounded with ordinary glue alone, as hereinbefore described, or other ingredients may be employed with them.

These proportions of white lead, English precipitated chalk, and carbolic acid may be varied somewhat to suit different glues, and for use for different purposes; but I have found that the proportions herein described form a very valuable and satisfactory compound with ordinary common glues.

What I claim is—

1. The glue herein described, consisting of common glue, dry white lead, English precipitated chalk, and carbolic acid, in the proportions substantially as herein described.

2. The process of improving glues, consisting of mixing with the said glues dry white lead, English precipitated chalk, and carbolic acid, in the proportions substantially as herein described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES H. CRAIG.

Witnesses:

FRANCIS TOUMEY,
JAMES P. WALSH.