

UNITED STATES PATENT OFFICE.

GEORGE G. TORLINA, OF CINCINNATI, OHIO.

METHOD OF REMOVING SUPERFLUOUS POWDER OR DUST FROM BRONZE PRINTS.

SPECIFICATION forming part of Letters Patent No. 628,563, dated July 11, 1899.

Application filed October 20, 1898. Serial No. 694,077. (No specimens.)

To all whom it may concern:

Be it known that I, GEORGE G. TORLINA, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Methods of Removing Superfluous Powder or Dust from Bronze Prints, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention.

In a certain kind of printing an impression is first taken from a form with a size or tacky ink and then before the ink has had time to set the print is coated with a fine metallic powder or dust, thereby imparting to the letters, &c., a bright color or luster. This powder, technically known as "bronze," adheres only to the letters, &c., and the loose superfluous dust is subsequently removed from the cardboard or other material upon which the impression was made. Frequently the removal of this waste bronze is effected by mechanical means; but in other cases the operation is performed by hand, brushes or loose-cotton rubbers being passed lightly over the surface of the print.

The object of my invention is to get rid of the waste bronze without employing machinery of any kind or using brushes or cot-

ton or other rubbers, and I accomplish this result by subjecting the print to the action of any suitable abradent. Preferably this abradent is pulverized glass, the use of which material speedily removes all superfluous bronze and has no injurious effect on the surface of the cardboard. The exact method of applying said abradent is immaterial, the only precaution being to distribute it lightly and evenly over the cardboard.

Finally, my invention can be utilized for removing superfluous material from "flock printing" or any other kind of printing where the displayed features are produced by causing a powder or dust of any kind to adhere to a sized surface.

I claim as my invention—

The within-described process of removing superfluous powder or dust from bronze prints, &c., which process consists in subjecting them to the action of an abradent after the powder or dust has adhered to such prints.

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

GEORGE G. TORLINA.

Witnesses:

JAMES H. LAYMAN,
JOHN C. ROGERS.