

UNITED STATES PATENT OFFICE.

STANLEY GEORGE MONTAGUE, OF GAINESTOWN, ALABAMA.

COMPOSITION OF MATTER APPLICABLE TO METAL-CUTTING TOOLS.

SPECIFICATION forming part of Letters Patent No. 386,753, dated July 24, 1888.

Application filed March 29, 1888. Serial No. 268,885. (No specimens.)

To all whom it may concern:

Be it known that I, STANLEY GEORGE MONTAGUE, a citizen of the United States, residing at Gainestown, in the county of Clarke and State of Alabama, have invented a new and useful Composition of Matter for Use in the Drilling, Filing, and Grinding of Steel, Iron, Glass, Marble, Granite, and Artificial Teeth, of which the following is a specification.

My composition consists of the following ingredients, combined in the proportions stated, viz: one ounce of gum camphor dissolved in three drams of sulphuric ether; one ounce of spirits turpentine, and two ounces of muriatic acid. These ingredients are to be well shaken while using.

In using the above named composition in drilling, the drill should be a common twist-drill, and the composition should be applied freely to the drill, while in motion, at the point or part nearest to the material to be drilled, keeping the drill thoroughly wet while drilling.

In grinding or filing, the wheel or file should be of any kind ordinarily used, and should be kept thoroughly wet with the composition while using.

If the drill, wheel, or file is used, as is common, without the composition, it will not cut, grind, or file without breaking the material or ruining the tool used. But if the composition is applied, as directed, to a common twist-drill of any size, it will cut through the steel, iron, glass, granite, or marble freely and expeditiously, leaving the hole perfectly smooth and the exact size of the drill used and without injuring the material drilled or facing the drill. And if the composition is applied as directed to the wheel or file it will grind or file the material above named smoothly and expeditiously, and without injury to the material or to the tool used.

What I claim, and desire to secure by Letters Patent of the United States, is—

The herein-described composition of matter, to be applied and used as and for the purpose described.

March 14, 1888.

STANLEY GEORGE MONTAGUE.

Witnesses:

JAS. S. KNAPP,
JOHN McMULLEN.