

D. BRUBAKER.
Dressing Millstones.

No. 216,597.

Patented June 17, 1879.

Fig. 1.

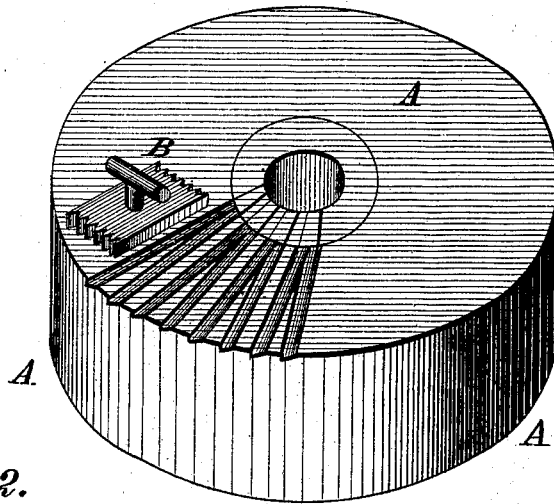


Fig. 2.

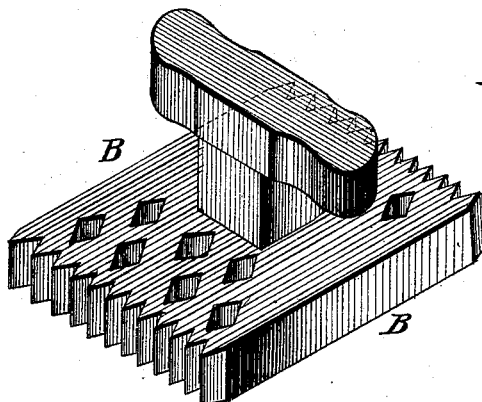


Fig. 3.

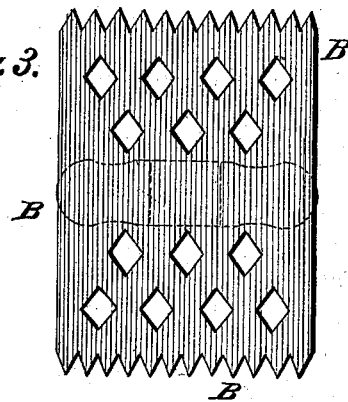


Fig. 4.

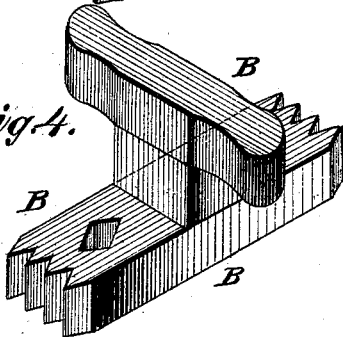
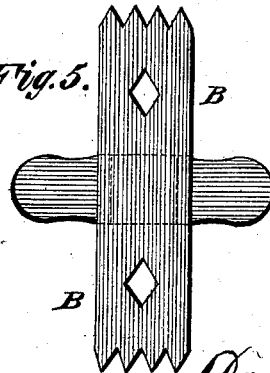


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

DANIEL BRUBAKER, OF OSWEGO, NEW YORK.

IMPROVEMENT IN DRESSING MILLSTONES.

Specification forming part of Letters Patent No. **216,597**, dated June 17, 1879; application filed April 24, 1879.

To all whom it may concern:

Be it known that I, DANIEL BRUBAKER, of Oswego, in the county of Oswego and State of New York, have invented certain new and useful Improvements in Facing Millstones; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention relates to a composition, and also to an improved tool adapted to be employed in connection therewith, for facing millstones; the object in view being the grinding of the face and furrow of the said stones to a true face, and the removal of all glaze and gloss, so as to give to the stone its natural grit without the employment of mill-picks to dress down the high places which have been shown by a proof-staff to be untrue.

It further consists in a tool adapted to be used in connection with the compound employed in dressing the stone, all as hereinafter more fully described, and pointed out in the claims.

The compound which I propose to use in dressing the stones is composed of ground crystallized Australian or California quartz, or any other quartz suitable for the purpose specified, and of the following grades or numbers, viz: 0, 0½, 00, 000, 1, 1½, 2, 2½, 3, 4, 5, 6; also nitro-muriatic acid, ammonia, alum, and corundum.

The tools employed in connection with this compound for the purpose of dressing the stones are formed of wood, as presently set forth.

In the accompanying drawings, Figure 1 is a perspective view of a millstone, with a tool in position for operating upon the abrading compound, as hereinafter described. Fig. 2 is an enlarged perspective view of the above-mentioned tool; Fig. 3, a plan view of the under side of the same; Fig. 4, a perspective view of a tool somewhat modified in form, and Fig. 5 a plan view of the under side of said modification.

Referring to said several figures by letter, A designates the millstone, and B a wooden tool formed with V-shaped serrations at its ends, and diamond or other suitably shaped holes or perforations.

In carrying my invention into effect a solution is first made of the above-described ingredients, as follows: Take of crystallized quartz, of all the numbers mentioned, twelve parts; nitro-muriatic acid, one part; ammonia, one part; alum, one part; corundum, one part.

The stone is then tested by a proof-staff, and all of the high places denoted by marks left in the usual way.

The crystallized quartz and corundum are moistened by the solution of nitro-muriatic acid, ammonia, and alum, and a portion of this composition is placed upon each high place on the face of the stone. The tool B is then placed upon the composition and drawn backward and forward, so as to grind down the stone to a true face.

During this operation the crystallized quartz adheres to the wooden face of the tool and cuts the stone as keenly as a diamond.

The serrated ends of the tool, and also the openings or perforations of the same, tend to guide the above-described composition during the rubbing process, and hence maintain a supply under the tool or rubber.

I have found by experiment that by the above process I can face or dress more stones than could be accomplished in the same time by the employment of six ordinary mill-picks, and that the facing can be done with greater accuracy, the stone left with a true face, and the grinding accomplished with the natural grit of the stone, thereby admitting of the granulating of the wheat instead of the grinding or pulverizing of the same.

Having described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The tool B, having a wooden face, serrated edges and perforations, and adapted for use as herein specified.

2. A composition for abrading and facing millstones, the same consisting of crystallized quartz, corundum, nitro-muriatic acid, ammonia, and alum, substantially in the proportions hereinbefore specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

DANIEL BRUBAKER.

Witnesses:

H. D. BAKER,
C. D. BURCH.