

UNITED STATES PATENT OFFICE.

JAMES T. McHUGH, OF PITTSBURG, PENNSYLVANIA.

VAULT AND SEWER GRATING.

SPECIFICATION forming part of Letters Patent No. 304,339, dated September 2, 1884.

Application filed May 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES T. McHUGH, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Vault and Sewer Gratings and Method of Manufacturing the Same, the object of said invention being to produce a grating which will present a surface rough as imitation of stone, concrete, or other plastic substance, which will produce a rough surface, and yet retain the strength and durability of a solid metal grating, to attain which object I use a metal grating with hollow rim and bars filled with concrete, imitation of stone, or any other plastic substance which will produce a rough surface, the rim and bars of said grating having a triangular-shaped cleat or rib projecting from and extending along their interior sides, so that when the concrete, imitation of stone, or other plastic substance is poured into the rim and bars of the grating it becomes dovetailed therein; and my invention further consists in the use of said concrete, imitation of stone, or other plastic substance as a core in molding the vault and sewer gratings heretofore described, said concrete core remaining in and becoming the top part of the casting.

In the drawings hereto attached and made

part of this specification, Figure 1 shows a top view of grating. Fig. 2 shows a vertical view of grating bisected by the line drawn through Fig. 1. Fig. 3 shows a vertical view of the concrete, imitation of stone, or other plastic substance as a core in molding the gratings. Fig. 4 shows a vertical view of the hollow rim and bars of the grating with the triangular-shaped cleat or rib projecting from and extending along their interior sides.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As an improvement in vault and sewer gratings, the metal casting with hollow rim and bars, said rim and bars having a triangular-shaped cleat or rib projecting from and extending along their interior sides, in combination with the concrete, imitation stone, or other plastic filling, to produce a grating with a metal frame and concrete top.

2. As a method of manufacturing the same, the concrete, imitation stone, or other plastic substance as a core in molding vault and sewer gratings, the core remaining in and becoming the top part of the grating.

JAMES T. McHUGH.

Witnesses:

F. W. HUGHES,
JOHN H. RONEY.

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EX
304,339

(No Model.)

J. T. McHUGH.

VAULT AND SEWER GRATING.

No. 304,339.

Patented Sept. 2, 1884.

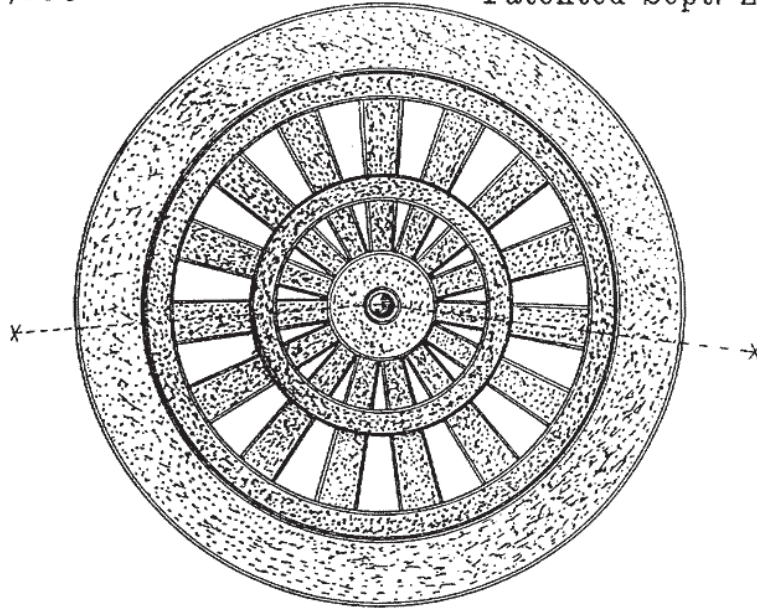


Fig. 1.

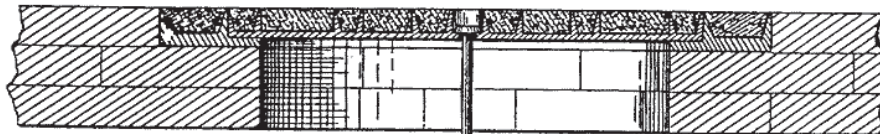


Fig. 2.



Fig. 3.

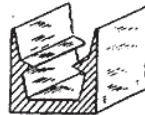


Fig. 4.

WITNESSES.

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James J. McHugh