(No Model.)

J. W. CAMERON.

HAND WHEEL GUARD.

No. 520,410. Patented May 29, 1894.

Fig. IV.

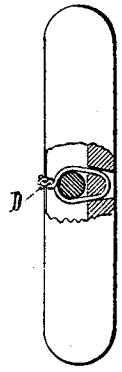


Fig. I.

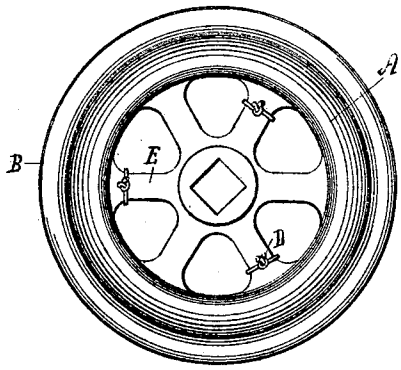


Fig. II.

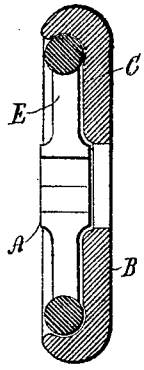


Fig. V.

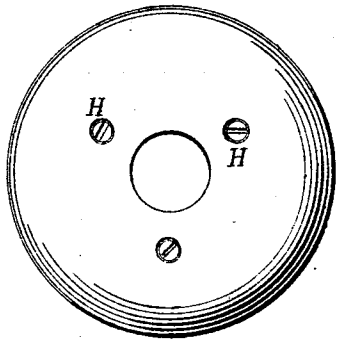


Fig. III.

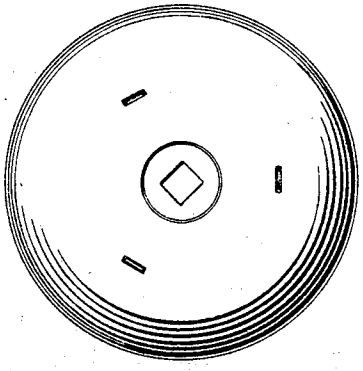


Fig. VI.

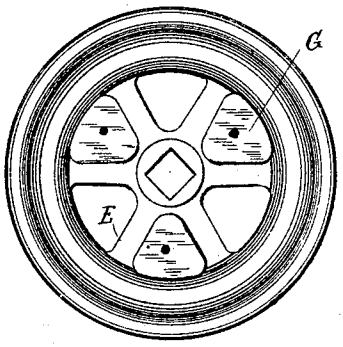


Fig. VII.

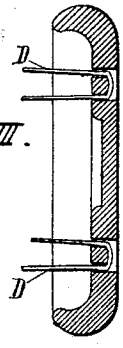
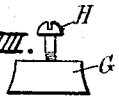


Fig. VIII.



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HAND-WHEEL GUARD.

SPECIFICATION forming part of Letters Patent No. 520,410, dated May 29, 1894.

Application filed June 29, 1893. Serial No. 479,107. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. CAMERON, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Hand-Wheel Guards, of which the following is a specification.

My invention relates to a new manufacture, namely, a guard for hand wheels, as hereinafter more particularly described and illustrated in the accompanying drawings, in which—

Figure 1 represents an inverted plan view embodying my invention. Fig. 2 represents a sectional view thereof. Fig. 3 represents a top or plan view embodying my invention. Fig. 4 is a sectional view showing a way of securing the guard to the valve or hand wheel by means of wires. Fig. 5 represents a plan view of another way of fastening the cover to the wheel. Fig. 6 represents an inverted plan view of the same. Fig. 7 represents a view of the cover detached from the wheel, and provided with wires for attachment thereto. Fig. 8 represents a view of one of the blocks for fastening the cover to the wheel, detached.

Similar letters of reference indicate corresponding parts.

The letter A designates an ordinary valve wheel constructed of metal in the usual way.

The letter B designates the body of the detachable hand wheel guard which may be composed of wood, asbestus, plastic composition or any other suitable material of a non-heat conducting nature. It is made circular and has a hollow portion C forming a cover to conform to the general contour of the top of the hand wheel A, so that when the guard B is placed on the wheel A it fits snugly thereon, and moreover, completely covers the top and circumference of the hand wheel and guards the hand from injury.

In order to secure the guard to the wheel I insert wires D at proper places in the body in openings beveled from the outside inward so that the wires can be drawn around the arms E of the steam wheel A and fastened in any suitable manner, as shown in Figs. 1, 3, and 4. The wires D may also be sunk below the surface of the body of the guard so they will not touch the hand as shown in Fig. 2. Or little plates or blocks G may be fitted in the spaces between the spokes and fastened from the outside with counter sunk screws H which will also be let in the wood a little as shown in Figs. 6 and 7; or the guard may be sprung over the periphery of the wheel and thereby be held in position.

The advantage gained by the use of the guard B is that it requires the least preparation for its adaptation to its desired purpose on the wheels, while it affords a simple and effective shield from the heat, and at the same time its manufacture is attended with the least possible cost.

What I claim as new, and desire to secure by Letters Patent, is—

The herein described circular cap-shaped hand wheel guard, of a non heat conducting nature for use on steam hand wheels having a hollow portion C to conform to the general contour of the hand wheel completely covering the top and circumference thereof, and provided with counter-sunk wires to secure the guard to the wheel in such a manner as to prevent injury to the hand, substantially as shown and described.

JAMES W. CAMERON.

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FRANCIS C. BOWEN,
JAS. S. EWBANK.