(No Model.)

E. C. HEGELER.

SCRAPER SUPPORT FOR SCREENS FOR FURNACES.

No. 245,491. Patented Aug. 9, 1881.

Fig. 1.

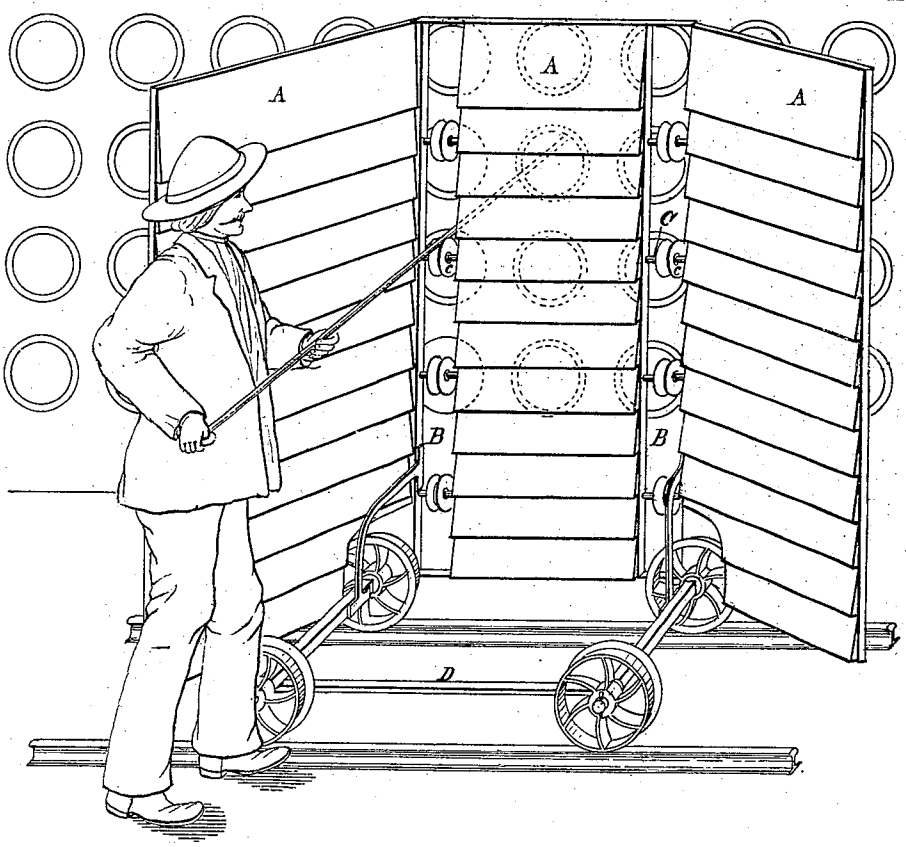


Fig. 2.

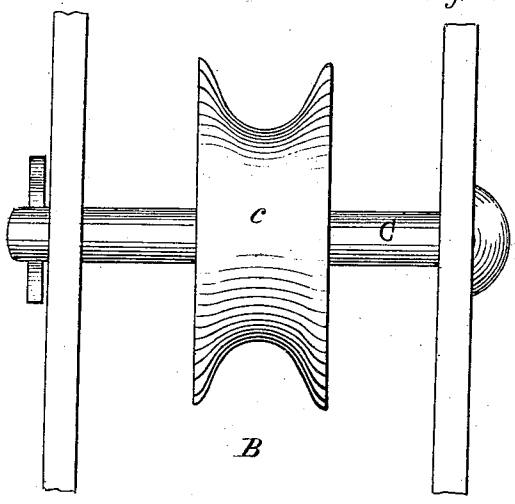
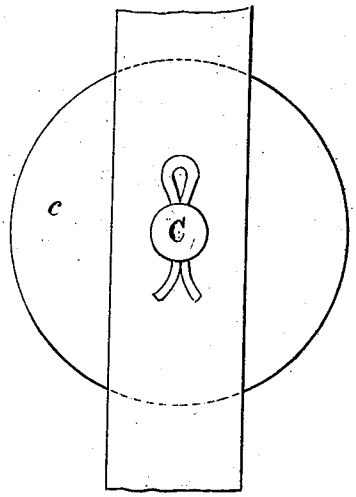


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD C. HEGELER, OF LA SALLE, ILLINOIS, ASSIGNOR TO THE MATTHIESSEN & HEGELER ZINC COMPANY, OF SAME PLACE.

SCRAPER-SUPPORT FOR SCREENS FOR FURNACES.

SPECIFICATION forming part of Letters Patent No. 245,491, dated August 9, 1881.

Application filed January 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, EDWARD C. HEGELER, a citizen of the United States, residing at La Salle, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Scraper-Supports in Connection with Screens for Zinc-Furnaces, of which the following is a specification.

The screens, in connection with the scraper-supports, are intended to protect the workmen from the heat of the furnace, and at the same time furnish supports for the scrapers used in cleaning the retorts. The heat before the furnace is very great when the retorts are opened and the residue of zinc ore and coal is being removed. The retorts are arranged in check-rows horizontally and vertically along the front surface of the furnace. There are narrow vertical openings between the screens, just wide enough to operate the scraper through, which openings are adapted to be brought in line with the vertical rows of retorts in cleaning them. The scraper-supports are arranged within the vertical openings, and at such distances apart as to correspond with the lower edges of the horizontal rows of retorts. The supports may be provided with an anti-friction roller or not, as desired. The screens and the scraper-supports are attached to a car or truck, which is run along upon a track parallel with the furnace. The car may be so constructed as to run along upon a track upon the ground, or so that its supporting-wheels may run on two rails overhead, or one above and one below the car.

The accompanying drawing illustrates the invention.

Figure 1 is a perspective view of a car upon a track, with the screens and supports attached, placed in front of a zinc-furnace.

A is the screens; B, the openings, *c* being small anti-friction rollers on the supports C. D is the truck.

The openings B may be formed between vertical bars of an iron frame attached to the car, and the screens may be hung upon such frame, so as to cover all parts except the openings. If the car is made long enough to furnish space for two or more workmen, the vertical openings should be just far enough apart to correspond with the vertical rows of retorts.

The scraper is a long iron rod provided with a hook-shaped device at the end, adapted to scrape out the interior of the retort.

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

A truck, D, having an upright frame attached to one side, with openings B, supports C, and screens A, all arranged to operate substantially as set forth, and for the purposes described.

EDWARD C. HEGELER.

Witnesses:
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