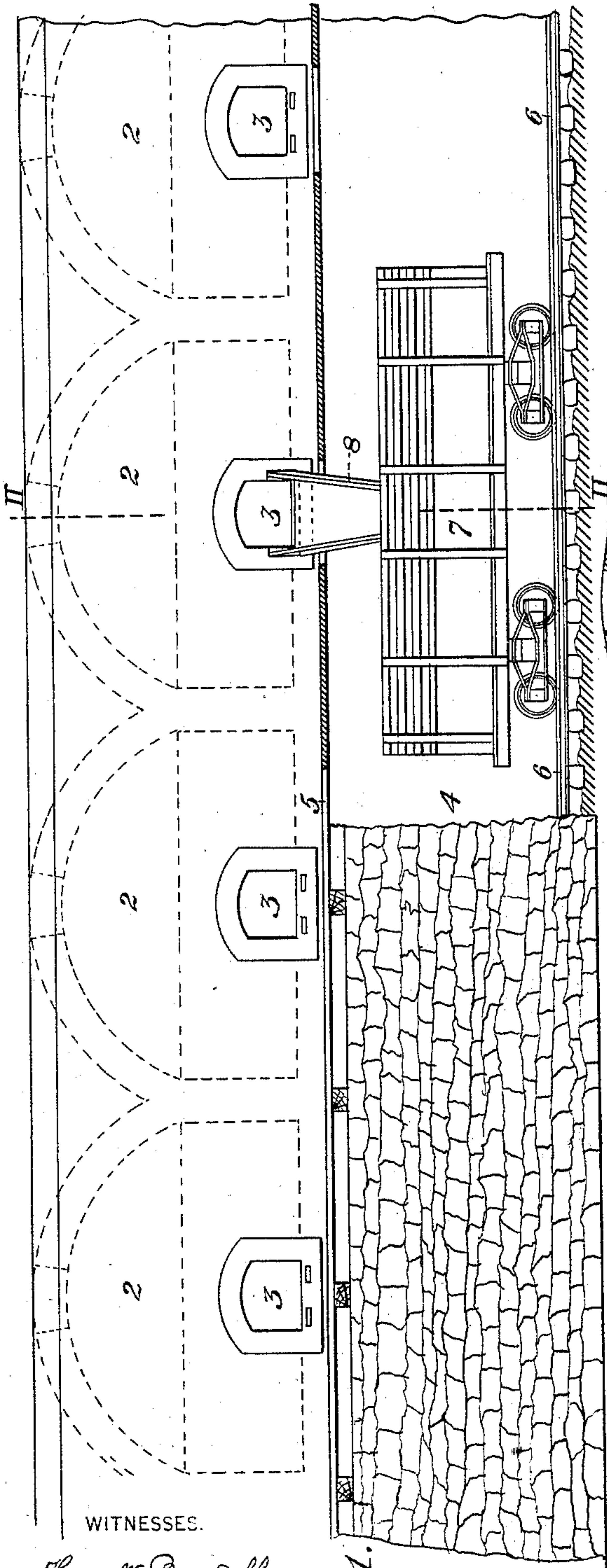


(No Model.)

A. C. COCHRAN.
COKE OVEN PLANT.

No. 448,636.

Patented Mar. 24, 1891.



WITNESSES.

Thomas W. Baxendale.
C. M. Clarke

Fig. 1.

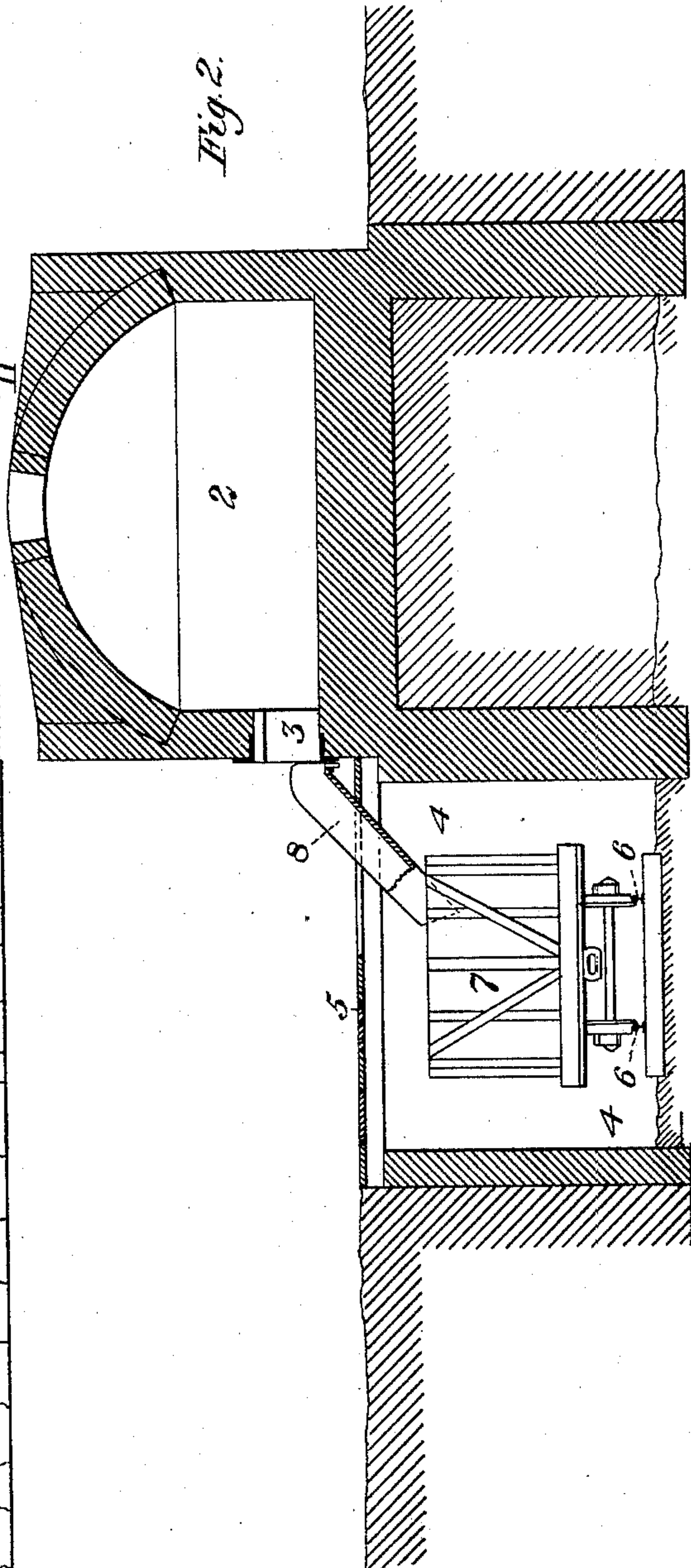


Fig. 2.

INVENTOR.

Alva C. Cochran

UNITED STATES PATENT OFFICE.

ALVA C. COCHRAN, OF STAUFFER, PENNSYLVANIA.

COKE-OVEN PLANT.

SPECIFICATION forming part of Letters Patent No. 448,636, dated March 24, 1891.

Application filed August 21, 1890. Serial No. 362,670. (No model.)

To all whom it may concern:

Be it known that I, ALVA C. COCHRAN, of Stauffer, in the county of Westmoreland and State of Pennsylvania, have invented a new and useful Improvement in Coke-Oven Plants, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation, partly in section, of my improved coke-oven plant. Fig. 2 is a vertical section on the line II II of Fig. 1.

The work of withdrawing the charge of a coke-oven at the conclusion of the coking operation has heretofore consumed very considerable time and labor. Such work has been most commonly performed by drawing out the charge through the oven-door and then removing it by means of wheelbarrows to the cars on which the coke is loaded. The great labor required by this work has led me to make the following invention, the purpose of which is to enable the coke to be discharged directly from the oven to the cars without the intermediate handling which heretofore has been required.

To this end my invention consists in combining with a series or line of coke-ovens provided with discharging-doors a platform situate in front of the doors and at about the level thereof, a subway situate beneath the platform, and a chute leading in a downwardly-inclined direction through the platform to a car on a track in the subway, so that the coke can be discharged down the chute into the car.

Referring now to the drawings, 2 2 are the coke-ovens, which are built in line, as represented in Fig. 1.

3 3 are the drawing or discharging doors of the ovens.

4 is a subway in front of the ovens and parallel therewith, and 5 is a platform situate above the subway and at or below the level of the discharging-doors 3.

A railway-track 6 is built at the bottom of the way 4, so that cars 7 may be run upon the track in position to receive coke from the oven. In order to convey the coke from the oven to the car, I employ a chute 8, which extends from the oven-door downwardly in an inclined direction through a hole formed in the platform 5. In order to remove the coke from the coke-oven to the car, it is drawn out upon the chute, after the usual watering process, and descends in said chute into the car 7, so that instead of drawing out upon the platform a large body of coke which requires to be hauled away by manual work the coke is discharged directly to the car. The advantage of this will be appreciated by those skilled in the art. It saves time and labor and greatly expedites the operations of the coke-oven plant.

I claim—

In a coke-oven plant, the combination, with a series or line of coke-ovens having discharging-doors, of a platform in front of the doors and about at the level thereof, a subway beneath the platform, and a chute leading in a downwardly-inclined direction through the platform to a car in the subway, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand this 15th day of August, A. D. 1890.

ALVA C. COCHRAN.

Witnesses:

THOMAS W. BAKEWELL,
H. M. CORWIN.