

No. 709,721.

Patented Sept. 23, 1902.

W. PECK.

CENTRIFUGAL TAILINGS ELEVATOR.

(Application filed July 9, 1901.)

(No Model.)

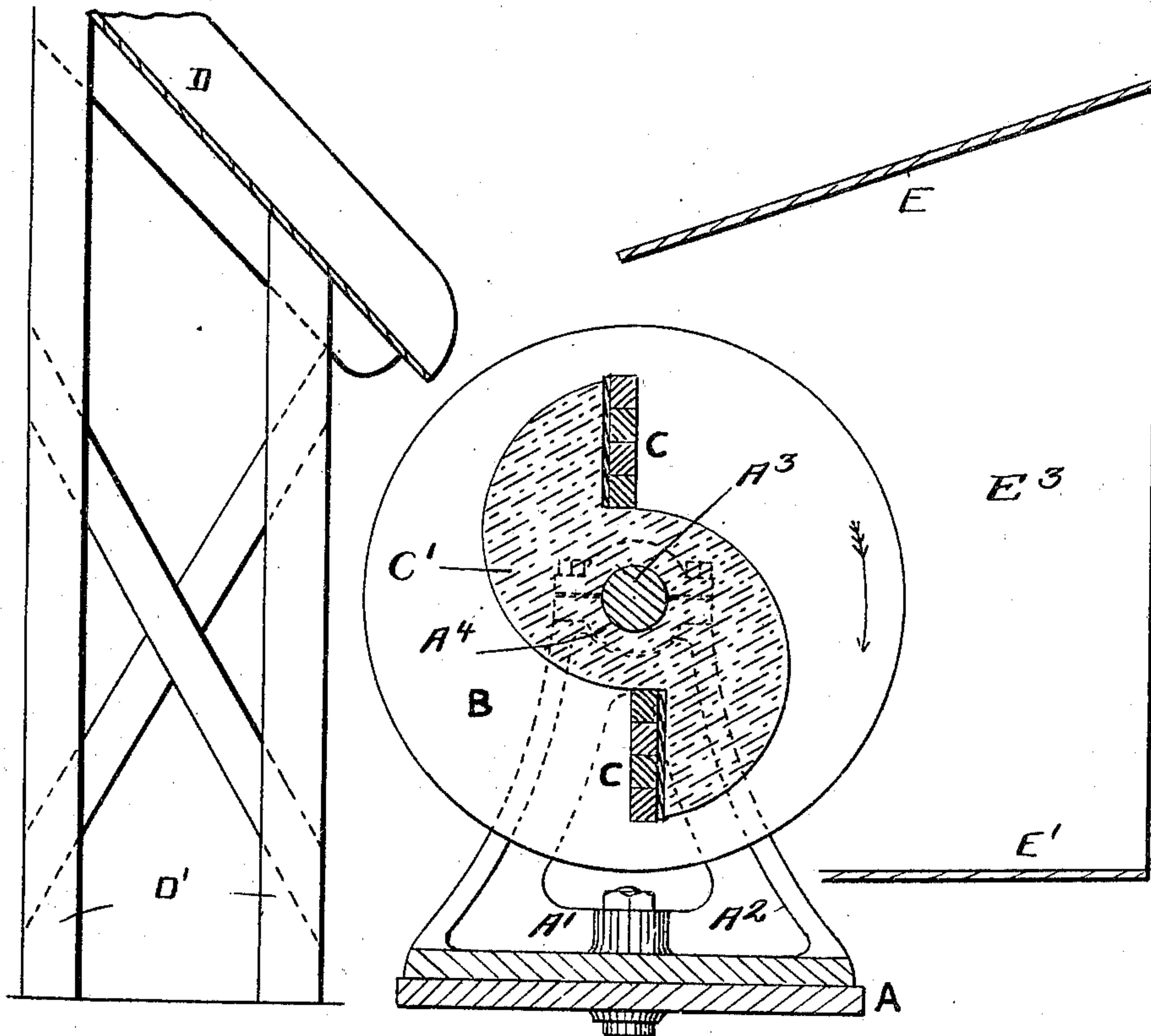


FIG 1

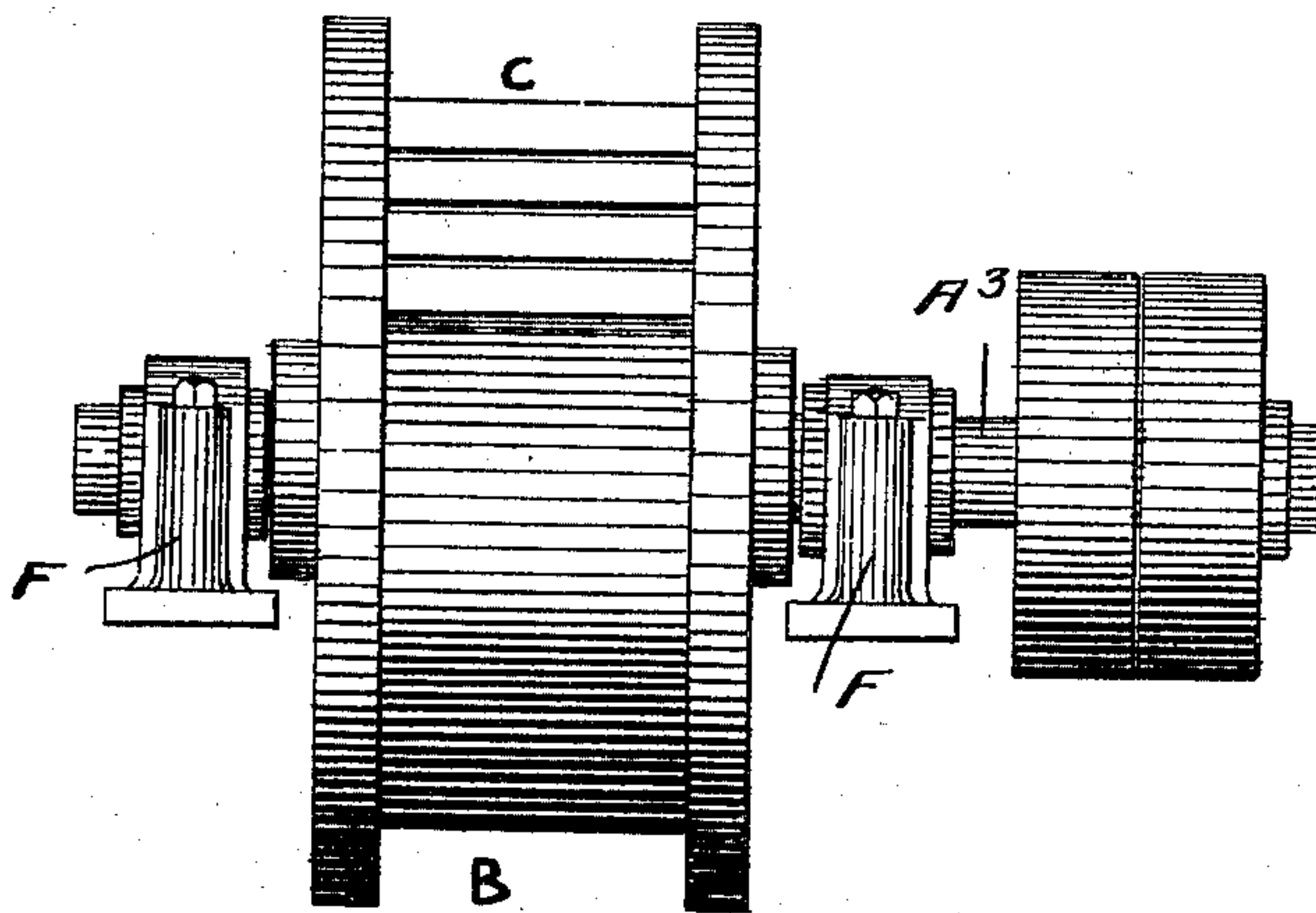


FIG 2

Witnesses:

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By

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*Atty*

# UNITED STATES PATENT OFFICE.

WALTER PECK, OF DUNEDIN, NEW ZEALAND.

## CENTRIFUGAL TAILINGS-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 709,721, dated September 23, 1902.

Application filed July 9, 1901. Serial No. 87,653. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER PECK, consulting engineer, a subject of the King of Great Britain, residing in the city of Dunedin, in the British Colony of New Zealand, have invented certain new and useful Improvements in Centrifugal Tailings-Elevators, of which the following is a specification.

The object of this invention is to provide a simple and effective means of distributing and stacking tailings at a distance clear of a dredge, mining, or excavating plant. This is at present effected by an overhanging bucket or tray elevator, which is costly and ponderous. My invention consists of a wheel strongly made and somewhat like a water-wheel, being furnished with blades or beaters and the wheel revolving at a speed varying with the height and distance the tailings are to be deposited, the action being that the tailings pour on the wheel, are struck by the beaters, and thrown in the required direction.

Figure 1 is a sectional elevation of the tailings-elevator arranged in relation to a supply-chute and a deflector for the material and swivelly mounted upon a bed-plate, and Fig. 2 is an end elevation of a fixed machine.

Referring to the drawings by reference-letters, A denotes a bed-plate, upon which is swivelly mounted, by means of the connection A', the frame A<sup>2</sup>, consisting of a pair of standards connected together at their bottom. The mounting of the frame A<sup>2</sup> upon the bed-plate so it can swivel enables the tailings to be thrown to the right or left for better distribution by swinging the frame to the position desired. Journaled in the frame A<sup>2</sup> is a drive-shaft A<sup>3</sup> for the beater-carrying wheel B, consisting of a web or body portion and shrouds or flanges preferably heavy for momentum. The shaft A<sup>3</sup> is mounted in the

bearings A<sup>4</sup>, as indicated in dotted lines, and is capable of being driven at a high rate of speed for suitably rotating the wheel B. The latter is provided with a number of beaters C, which, as shown, extend in a radial manner and are secured to the curvilinear web C' of the wheel at suitable points of the periphery thereof.

D indicates the tailings-supply chute, which may be set in any suitable manner to deliver the tailings to any desired point of the wheel B and is supported by the standards D'. When it is desired to concentrate the tailings approximately to one point, deflecting plates or guides E at the top, E' at the bottom, and E<sup>3</sup> at the side may be added, thus practically forming a funnel. These plates when used may be supported in any suitable manner.

In Fig. 2 the bed-plate A and frame A<sup>2</sup> are dispensed with, and the shaft A<sup>3</sup> is supported in a pair of fixed standards F, which prevent the machine from being turned to the right or the left during the operation thereof, as is the case when the machine is swivelly mounted.

In this invention any suitable materials, sizes, number, or position of beaters may be adopted.

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

In a machine of the class described, a wheel provided with beaters, said wheel being mounted for rotation, and being free of an inclosing casing, whereby, on the rapid rotation of said wheel, material supplied thereto will be centrifugally scattered, and the standard of the wheel being swivelly mounted.

WALTER PECK.

Witnesses:

HENTON MACAULAY DAVEY,  
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