

P. Chas. Chipron's Corn Sheller.

74306

Fig. 1

PATENTED

FEB 11 1868

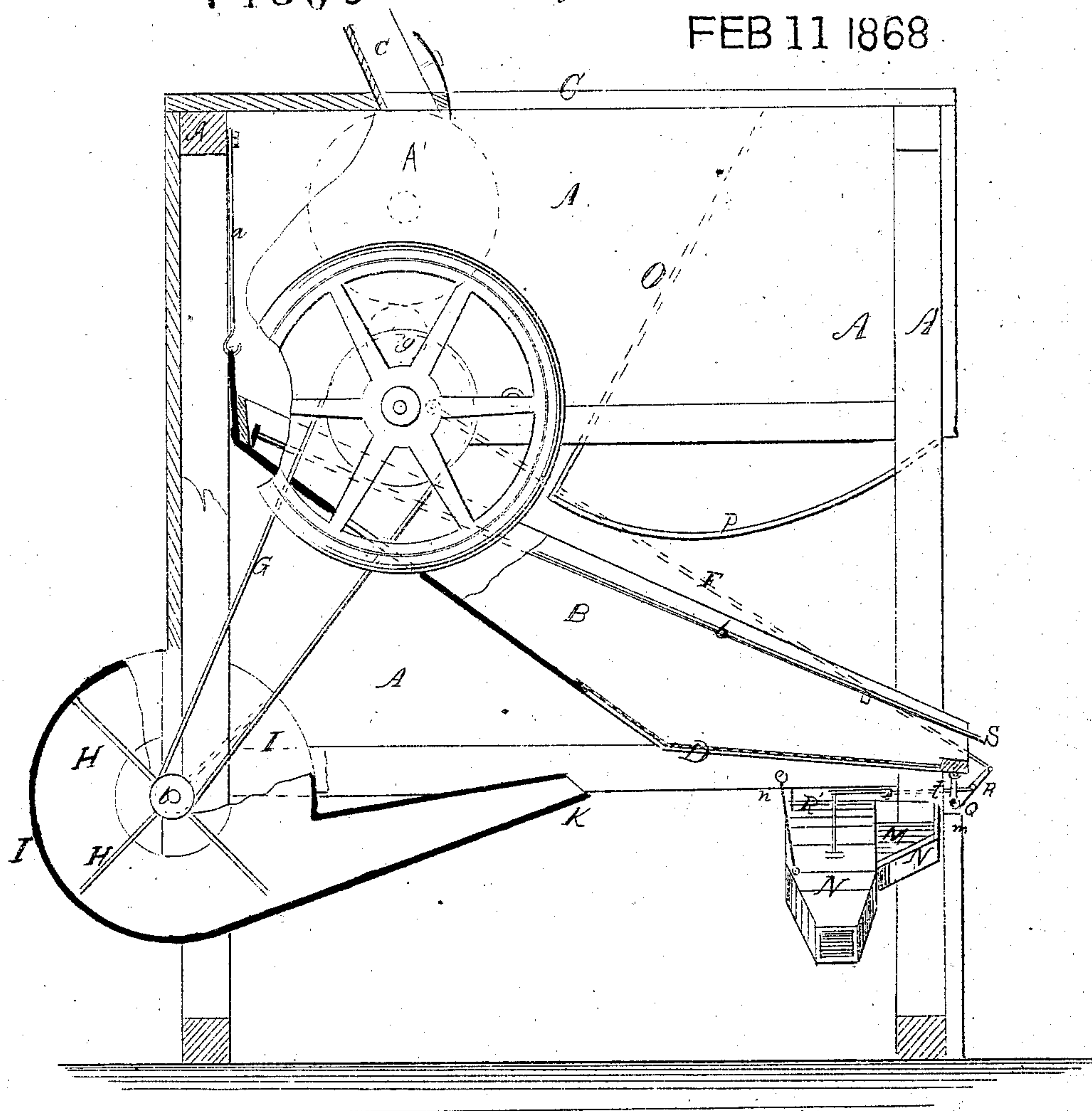
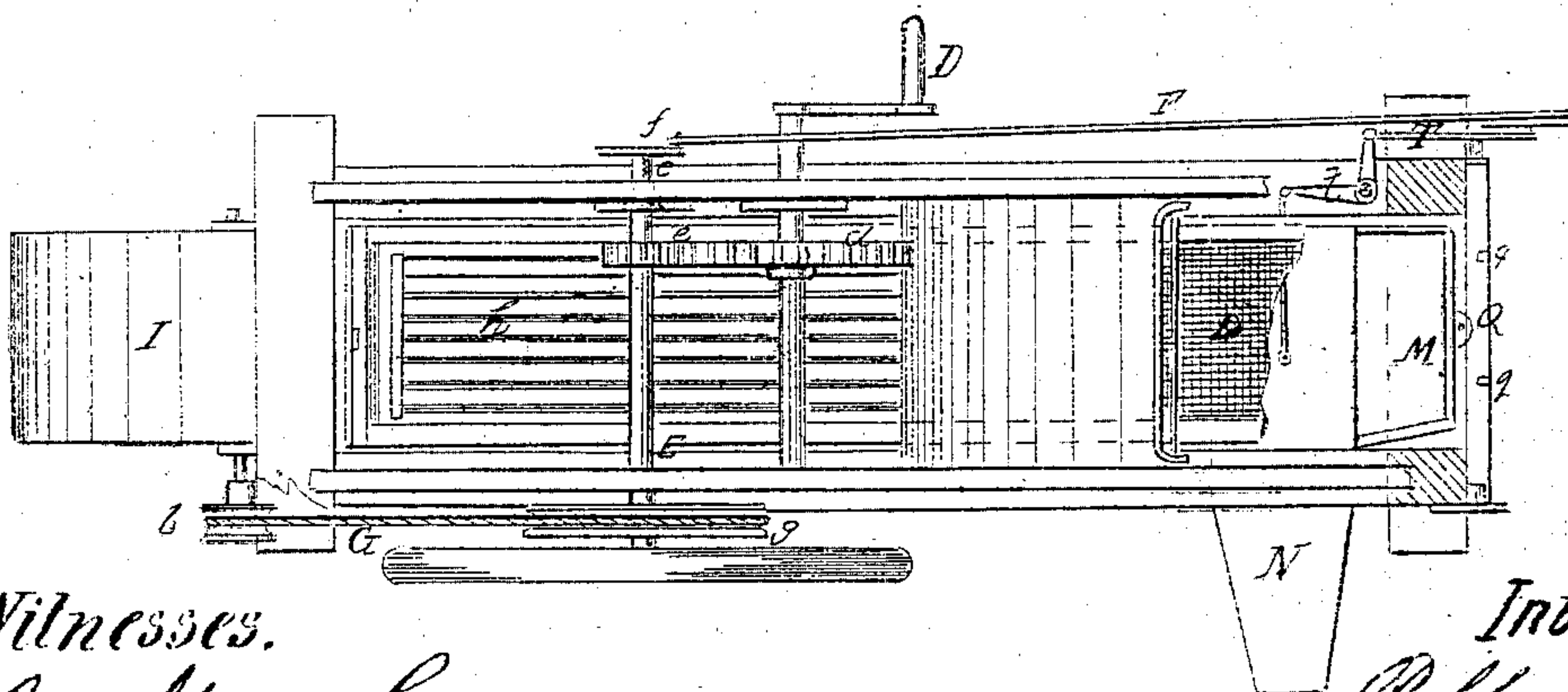


Fig. 2



Witnesses.

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P. CHARLES CHIPRON, OF HIGHLAND, ILLINOIS.

Letters Patent No. 74,306, dated February 11, 1868.

IMPROVEMENT IN CORN-SHELLERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, P. CHARLES CHIPRON, of Highland, in the county of Madison, and State of Illinois, have invented a new and improved Corn-Shellier; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to an improved corn-sheller, and consists of an oscillating cradle set in a box-frame, and of a fan revolving in a cycloidal hollow drum, blowing away the dust and dirt from the corn in the cradle. The cradle is furnished with longitudinal bars, arranged at such a distance apart as to allow the grains to pass through, but not the cob, which passes down the bars outside the cradle, and so to any desired receptacle. The corn falls upon a sieve in the bottom of the cradle, through which pass the unsound grains, excrement of mice, and other rubbish, while the sound grains pass on to the end and fall into a basin or pan connected with a spout, placed crosswise, whence said sound grains pass to the receptacle placed to receive them. A shield, set obliquely in the frame, serves to prevent the corn from being thrown out of the sheller during the process, and another shield, stretching from the bottom of the first-mentioned shield to the wall of the frame, (and by preference curved so as to present a convex surface to the cradle,) prevents the dust blown out by the fan or bellows from being driven among the corn. In the accompanying drawings—

Figure 1 is a side view, partly in section, of my improved corn-sheller, and

Figure 2 is a top view thereof, with lid removed.

Similar letters of reference indicate corresponding parts.

A is the box-frame, B the cradle, suspended at one end by the wire *a* from the box-frame A, and resting at the other end on the oscillating-rods *g g*, attached to the oscillating-bar Q. C is the lid, in which is the spout *c*, through which the corn to be shelled is fed to the shelling-wheel A', shown in dotted lines, fig. 1, and operated by suitable gearing from the shaft E. The shelling-wheel and spout *c* are of ordinary construction, and form no part of my invention. The cradle B is furnished with longitudinal bars, *b*, and receives a rapid but small oscillating motion by means of the wheel and pinion *d e*, and the eccentric-rod F, attached eccentrically at one end to drum *f*, on axle E, and connected at the other end to crank R, of oscillating-bar Q. The band G, passing over pulley *g*, on opposite end of axle E, and over pulley *h*, on axle of fan H, in cycloidal hollow drum I, revolves said fan, and the spout K, being directed upon the sieve D, which forms the floor of the cradle B, blows the dust and dirt away from the grains which, separated from the cob by the oscillating motion given to the cradle, have fallen between the bars *b*, while the cobs, unable to pass through, run down the bars and fall off the cradle at S into the receptacle placed for them. The sieve D allows the passage of the unsound grains, excrement of mice, and other rubbish, the separation whereof is facilitated by the oscillating motion imparted to the cradle B, while the sound grains are conducted to the end of the sieve D, (which does not extend quite to the end of said cradle,) and thence fall into the pan M, which, hung to the frame at *m*, has an oscillating motion conveyed to it from the crank R, through the bar T and bell-crank *t*, attached to the chute N, which chute is solidly connected to the pan M, and hung to the frame A by the suspending-rods *n* and *n'*, and delivers the cleaned and shelled grains into the receptacle provided for them. The shield O, of wood, metal, or any other suitable material, set obliquely in the box-frame A, prevents the corn from flying out when movement is given to the cradle, as now commonly happens with shellers in ordinary use, and the shield P, also of wood or other suitable material, attached at one end to O and at the other to the frame A, at *p*, (and to which I prefer giving a curved shape, having its convexity directed to the cradle, as shown in the drawing, fig. 1,) prevents the dust and dirt blown out by the fan H from again entering the frame and mixing with the corn.

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

1. The shields O and P, set in the frame A, in manner and for the purposes substantially as herein shown and described.
2. The cradle B, having the longitudinal bars *b* and sieve D, and suspended in the frame A, all as set forth, and operating substantially in manner as and for the purposes described.

P. CHARLES CHIPRON.

Witnesses:

JOHN BLATTNER,
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