

(No Model.)

A. JONES.
SELF CLEANING PLOW.

No. 324,559.

Patented Aug. 18, 1885.

Fig. 1.

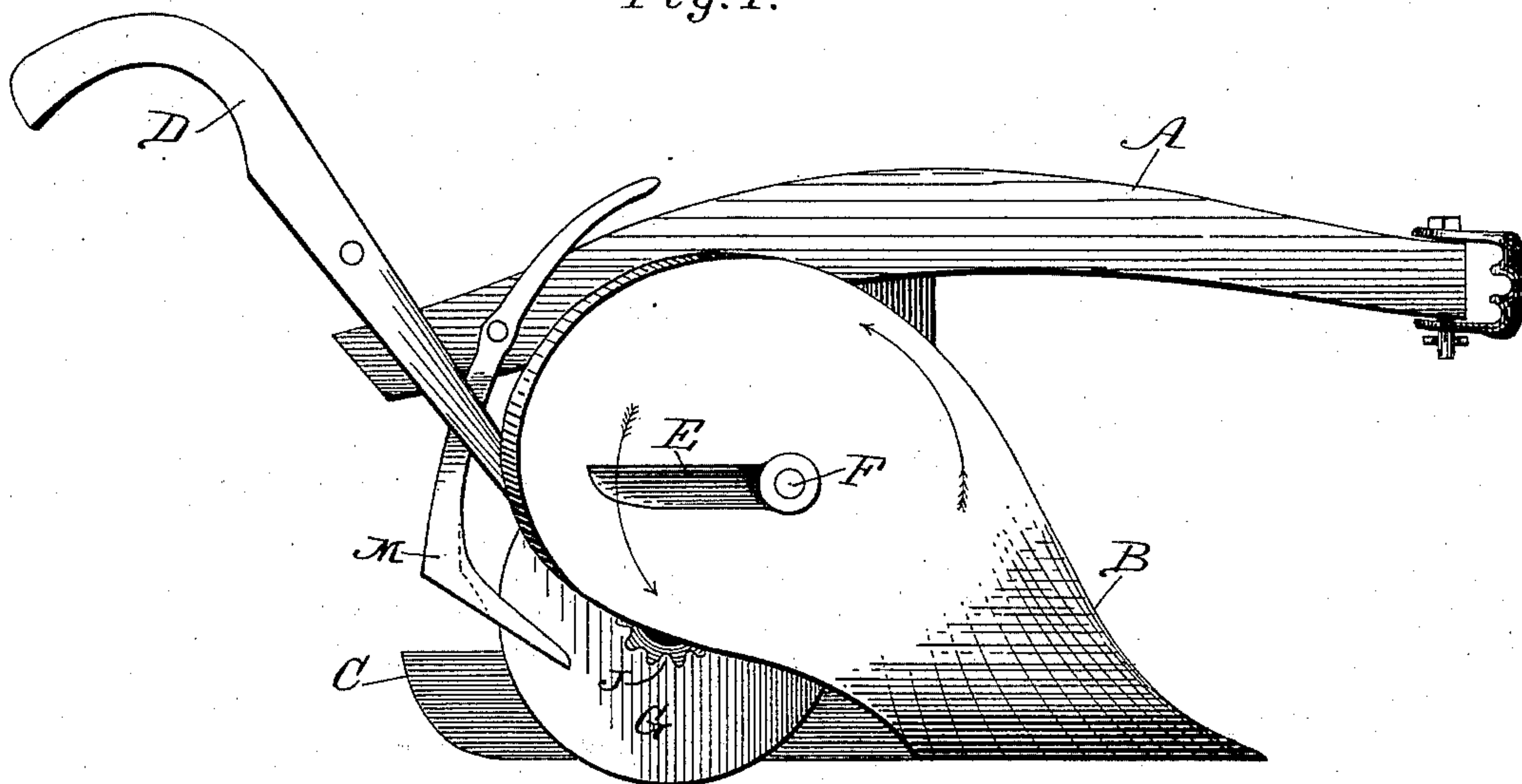
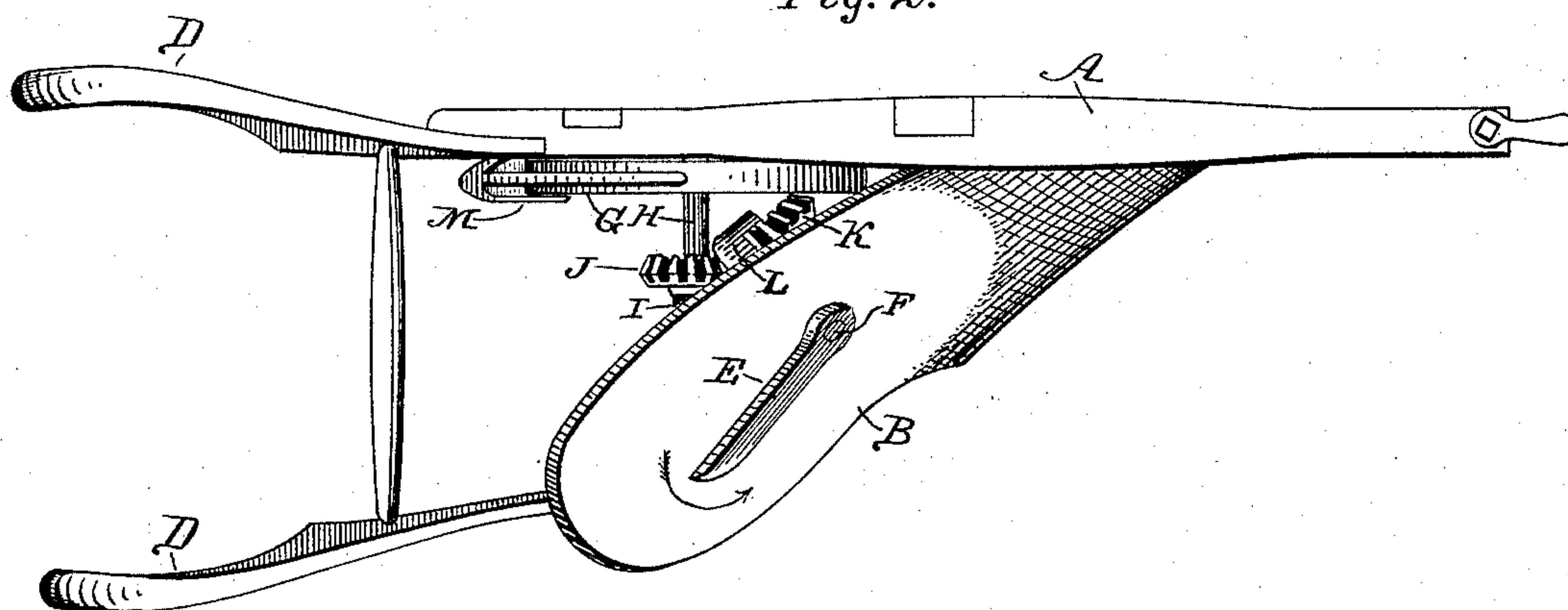


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALLEN JONES, OF SAN MARCOS, TEXAS.

SELF-CLEANING PLOW.

SPECIFICATION forming part of Letters Patent No. 324,559, dated August 18, 1885.

Application filed January 24, 1885. (No model.)

To all whom it may concern:

Be it known that I, ALLEN JONES, a citizen of the United States, residing at San Marcos, in the county of Hays and State of Texas, have
5 invented certain new and useful Improvements in Self-Cleaning Plows, of which the following is a description.

This invention relates to that class of devices which are used for cleaning the mold-boards
10 of plows from accumulations of soil. The soil of most prairie land, and especially that of some portions of Texas, is of a very waxy nature, rendering it very difficult to be plowed because of its sticking to the mold-board of the
15 plow. By thus sticking it accumulates on the face of the mold-board until the characteristic shape of the plow is no longer visible or serviceable. Thus the work of plowing requires a great expenditure of force, and yet it is
20 poorly done by common plows. The object of this invention is to provide means whereby a plow shall intermittently clean its mold-board while in use.

To this end my invention consists in the construction and combination of parts forming a
25 self cleaning plow, hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a plow, showing my invention, and Fig. 2 is a plan view of
30 the same.

A represents the beam, B the mold-board, C the landside, and D the handles, of a plow.

E is the cleaning-blade, fixed upon an axle, F, so as to revolve against the face of the mold-board. The mold-board is a plane surface
35 across the area of the circle traversed by the blade, so that a straight blade will touch against the mold-board at all points of the circle. By causing this blade to revolve it will scrape
40 from this circle of the mold-board any adhering soil. To accomplish this, I provide a drive-wheel, G, having a fixed axle, H, journaled in bearings, one of which—not visible—is in the
45 landside, and the other, I, is in a bracket cast upon or secured to the rear side of the mold-board. This wheel is hung to run a little lower than the landside, so as to insure its bearing on the ground hard enough to be re-
50 volved at all times.

J is a beveled gear-wheel, fixed on the axle H to revolve therewith.

K is a beveled gear-wheel, fixed on the axle F to revolve the blade E, and engaged by the wheel J, to be revolved by the drive-wheel G. 55 When the plow is drawn forward, the wheel G rolls in the bottom of the furrow, causing the blade E to revolve in the direction of the arrows at the edge of its circle. The inner or rear end of the axle F is journaled in a bracket-arm, L, which is rigidly secured to the rear side of the mold-board. 60

M is a scraper pivoted to the beam B, and bifurcated at its lower end to straddle the edge of the wheel G. This scraper is sharp-edged 65 on both legs and in its crotch, in order that it may trim from the edge and sides of the wheel-rim any earth that may gather thereon. This scraper, being bound to the beam by its pivot-bolt, will stay out of engagement with the wheel unless it is purposely swung into engagement. Thus by using this plow in the common way of plowing it revolves the cleaning-blade and scrapes the mold-board clean at each revolution of the drive-wheel, and the latter 75 may be at any time cleaned by the scraper M.

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

1. The combination of a mold-board having a plane face on the larger portion of its area, 80 a blade having an axle journaled near the center of the said plane, a wheel journaled in the plow, with its rim parallel to and extending below the landside of the plow, a beveled gear-wheel upon the said wheel-axle, and another 85 beveled wheel upon the blade-axle, engaging each other, substantially as shown and described.

2. The combination of a plow mold-board having a portion of its face plane, a blade on 90 said plane face having an axle extending through the mold-board, and a wheel journaled in the plow between the mold-board and landside, with its rim extending below the landside, the said blade and wheel being connected together substantially as described, 95 whereby the wheel rolling upon the ground revolves the blade in the opposite direction, for the purpose set forth.

ALLEN JONES.

Witnesses:

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H. S. BOMAR.