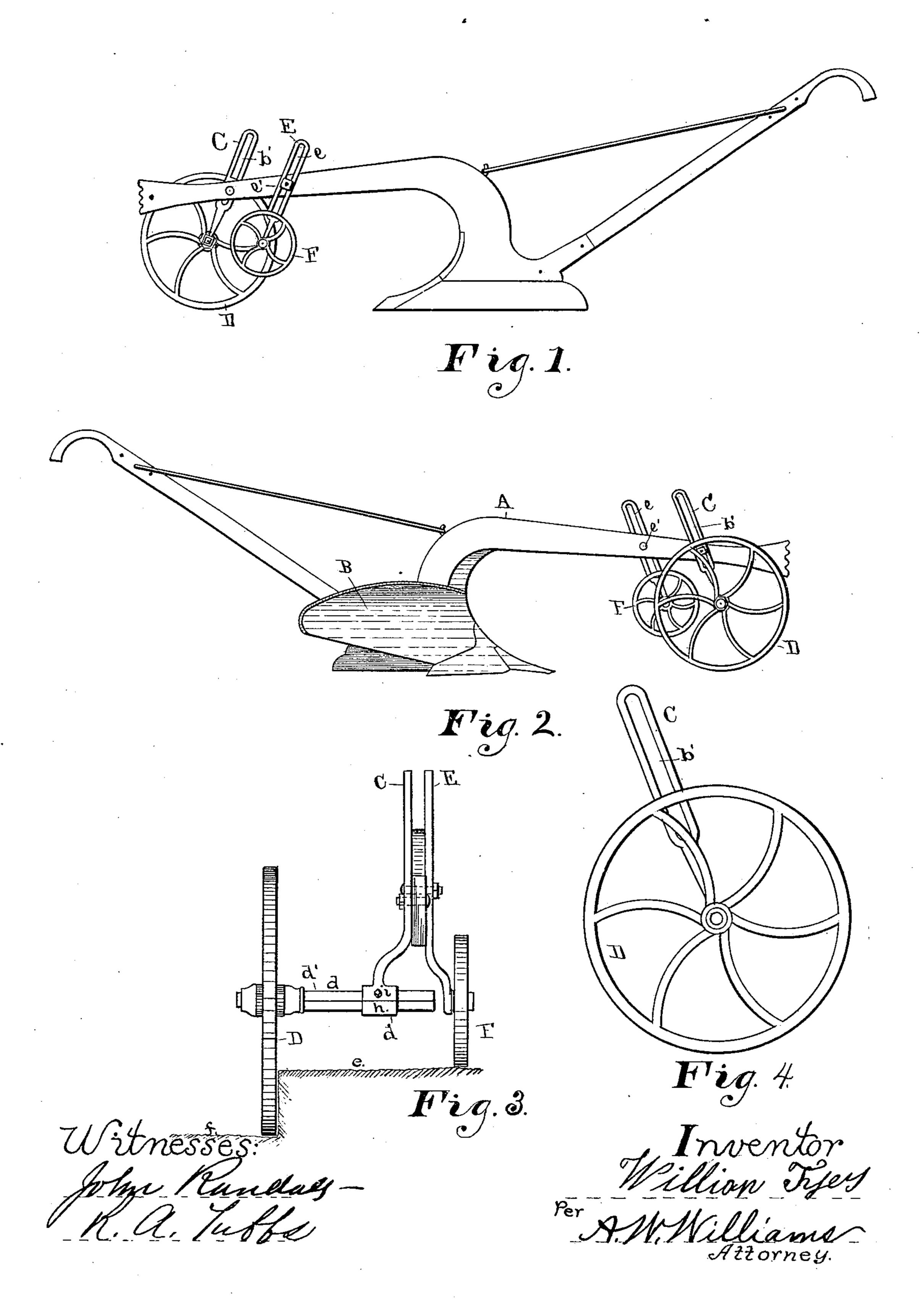
W. TYERS.

ATTACHMENT FOR PLOWS.

No. 377,126.

Patented Jan. 31, 1888.



United States Patent Office.

WILLIAM TYERS, OF SHARON, PENNSYLVANIA.

ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 377,126, dated January 31, 1888.

Application filed June 12, 1886. Serial No. 205,029. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TYERS, a citizen of the United States, residing at Sharon, in the county of Mercer and State of Pennsylvania, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to plows of the class provided with a land-wheel which partially supports the plow-frame and travels on the surface, and a furrow-wheel which travels in a furrow and acts as a gage for keeping the plow in the proper line of movement.

means for supporting the wheels independently from the plow-beam and for adjusting them independently either horizontally or vertically. These means will be fully hereinafter described, and are shown in the accompanying drawings, in which—

Figures 1 and 2 are side elevations taken from opposite sides of the plow. Fig. 3 is a front elevation. Fig. 4 is a separate view of the furrow-wheel and its standard.

A represents a plow-beam of any ordinary construction, and B the plow proper connected thereto.

C represents a slotted arm or standard having a long slot, b', by which and a bolt, b^2 , it is adjustably connected to the plow-beam. The lower end of the arm C is bent outwardly, Fig. 3, and is formed with or firmly connected to a rectangular box, d, through which passes the axle d' of the furrow-wheel D. The arm is bent outwardly enough to firmly support the axle, which is adjustably secured in the box d by a set screw, d'. The wheel may thus be adjusted vertically to conform to the depth of the furrow and laterally to correspond with the distance separating such furrows. The axle is also brought low enough, when the

wheel D is in the furrow, to act as a stubble-breaker in advance of the plowshare.

E represents an arm or standard having a 45 long slot, e, and adjustably secured to the plow-beam, by a bolt, e', a short distance behind the arm C. The lower end of this arm is either formed into or secured to a journal for the surface-wheel F. The position of the 50 surface-wheel may thus be changed relatively to that of the furrow-wheel and according to the depth at which the latter runs.

One of the principal advantages of my device is its evident and extreme simplicity, 55 both of its parts and the manner of their attachment. It is clear, as the drawings illustrate, that it may, by the use of a couple of bolts, be attached to any ordinary beam plow, and when so attached will greatly lessen the 60 labor and trouble of the work, because the wheel running in the furrow provides a constant self-acting gage for keeping the plow in proper line, and a gage which can be adjusted as often as the necessities of the case require. 65 It is evident, also, that an ordinary beam-plow partly supported in this manner will run much easier, and thus lighten the labor both of man and horse.

What I claim is—

In a plow, the combination, with the plowbeam A, of the slotted arms or standards C and E, each secured directly and adjustably to the said beam, said arms being bent or curved transversely outward at their lower 75 ends, the arm C having a box to receive the adjustable axle of the furrow-wheel, and the arm E having a journal for the surface-wheel, substantially as described.

WILLIAM TYERS.

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Witnesses:
JOHN RANDULT,
R. A. TUBBS.