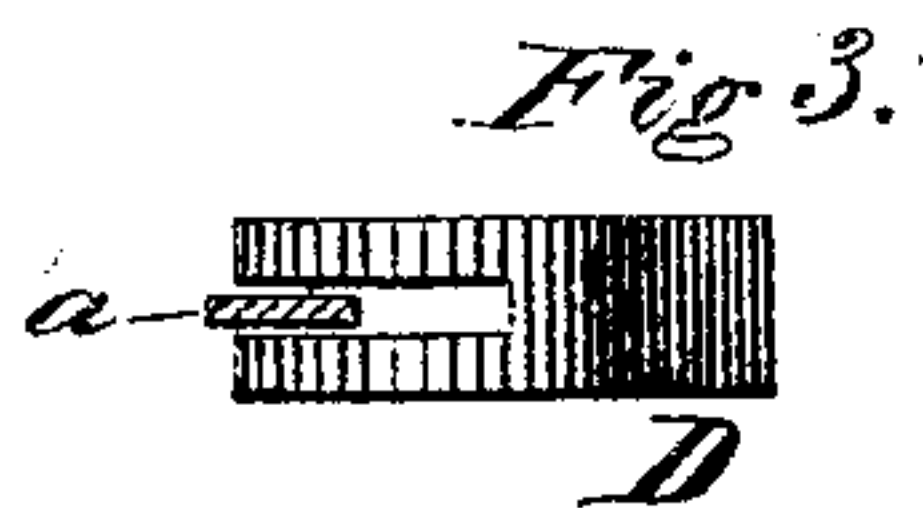
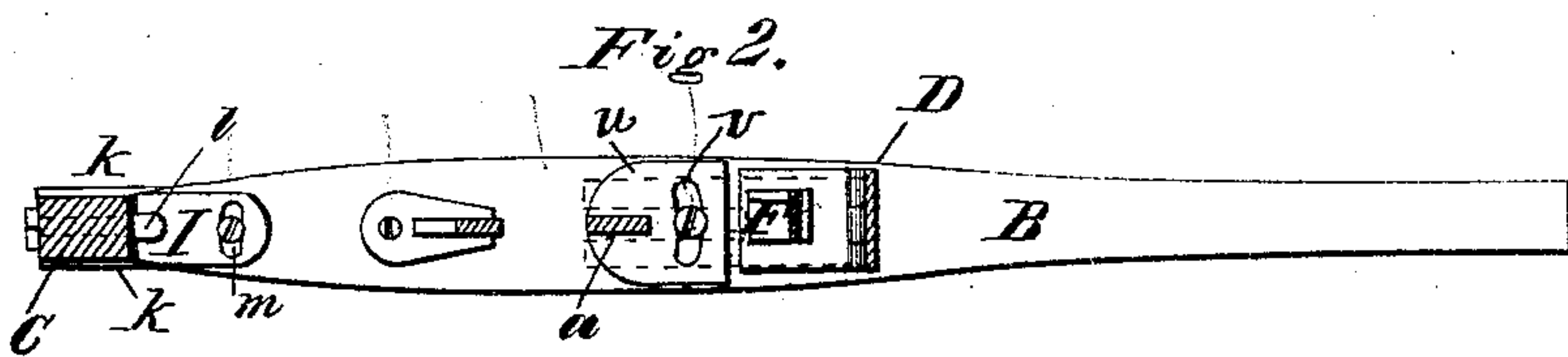
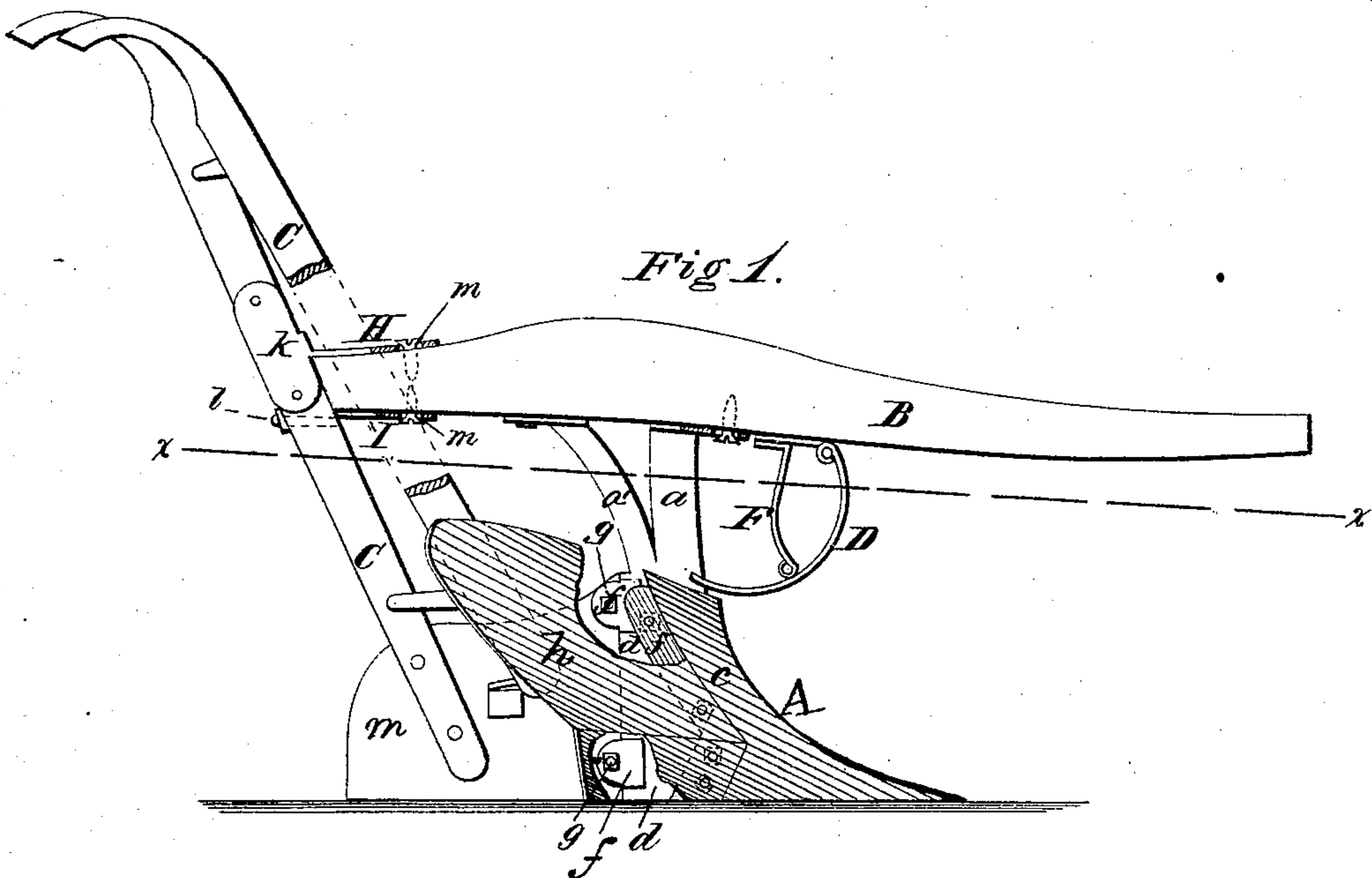


A. K. DAHL.

Plows.

No. 144,960.

Patented Nov. 25, 1873.



Witnesses.

Harry King.
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Inventor.

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UNITED STATES PATENT OFFICE.

AMUND K. DAHL, OF FOX LAKE, WISCONSIN.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **144,960**, dated November 25, 1873; application filed April 19, 1873.

To all whom it may concern:

Be it known that I, AMUND K. DAHL, of Fox Lake, in the county of Dodge and State of Wisconsin, have invented certain Improvements in Plows, of which the following is a specification, reference being had to the accompanying drawings.

My invention consists, first, in constructing the shin or front part of the plow, with a portion of the mold-board, and also a portion of the land-side, in one solid piece of metal. It further consists in providing a spring-guard to prevent the grass, weeds, &c., from choking and throwing the plow out of the furrow.

Figure 1 is a side elevation with a portion broken away to show the opposite side. Fig. 2 is a section on the line *x x*, looking from below upward, showing the means for adjusting the beam. Fig. 3 is a bottom view of the spring-guard.

In constructing my plow, I make the front part, A, Fig. 1, of the usual form, except that I provide it on the mold-board side with a projecting portion, *c*, of such a form as to constitute the front part of the mold-board, as represented in Fig. 1, it being provided with a flange, *f*, to which the other part, *h*, of the mold-board is secured by bolts, this part *d* being also provided with a flange or projections, *g*, to secure the remaining portion *m* of the land-side Q, as also shown in Fig. 1.

It will be understood that the shin or front edge of the part A, with such other portions of it as are subjected to most wear, are to be made thicker than usual, the object being to make this part A last a long time, and at the same time reduce the size, and consequently the cost, of those portions of the mold-board and land-side which are most subjected to wear, and which have to be renewed from time to time.

When it is intended to make steel plows, I make the part A of cast-steel, and when it is intended to make a cast-iron plow, then the part A is to be made of cast-iron.

In order to prevent the accumulation of grass, stubble, &c., against the front of the standard *a*, I pivot to the under side of the beam, forward of the standard, a curved arm, D, the lower end of which is slotted, and arranged to play loosely on the standard, and then secure to the beam a spring, F, which

tends to push the end of the arm D down to the top of the mold-board, as shown in Fig. 1.

The grass, weeds, and all other obstructions, instead of lodging against the standard, are caught and forced down by the arm D, so as to come in contact with the sod or earth, which draws them off to one side. In this way the standard is always kept clean and free from obstructions, and the plow allowed to work with ease and freedom.

The standard is composed of an upright, *a*, and an inclined arm, *a'*, the beam B being pivoted on the latter so as to allow its ends to swing laterally a short distance. The front part, A, is provided with a flange, *u*, having in it a transverse slot, *v*, as shown in Fig. 2, through which slot a bolt passes into the beam. At the rear end the beam is secured between two plates, H and I, both of which have a slot, *m*, through which a bolt may be inserted and pass through the beam, as represented in Figs. 1 and 2. The upper plate, H, I make with a flange, *k*, on each side, the space between them being such as to admit the handle C, to which these flanges *k* are screwed or riveted, as represented in Fig. 1, it thus forming a very strong and secure fastening. The lower plate, I, has a tang, *l*, on its rear end, which is inserted through a hole in the handle, and is secured by a nut, as shown in Figs. 1 and 2.

It will be seen that by this construction and arrangement of devices the beam turns on the arm *a'* as a pivot, and is fastened when adjusted both in front of the upright *a*, and also at its rear end, thus forming a very secure fastening.

Having thus described my invention, what I claim is—

1. The front part, A, of a plow, with the part *c* of the mold-board, and the part *d* of the land-side, all made in a single solid piece, substantially as described.

2. The guard D, having its rear end slotted to engage on the standard *a*, in combination with the spring F, the construction and arrangement being substantially as shown and described.

AMUND K. DAHL.

Witnesses:

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