

United States Patent Office.

LORING O. ROCKWOOD, OF OTTAWA, ILLINOIS.

Letters Patent No. 64,906, dated May 21, 1867.

GANG-PLOUGH.

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, LORING OTIS ROCKWOOD, of Ottawa, in the county of Lasalle, in the State of Illinois, have invented a new and improved Gang-Plough; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in connecting two ploughs by means of an adjustable extension-joint, so constructed and fastened to the ploughs that whenever the shares of the ploughs become worn or altered by sharpening, or by any other means, the angle of the joint may be changed, and readily secured in such a manner as to adjust the relative level of the two ploughshares so that they will incline to run level and alike, and thus be as easily held as one plough. My invention also consists in making this joint capable of being extended and contracted, so as to set the two ploughs at any distance apart that may be necessary to cut the furrow of the desired width.

Figure 1, in the drawings, is a vertical plan.

Figure 2 is a horizontal plan.

Figures 3, 4, 5, 6, and 7 are plans of detached pieces.

I make my ploughs (fig. 3) in any of the usual forms, except that I fasten to the top of the standard *a* an iron plate, *b*, having a long hole across the back end of it at *c*, for the purpose of adjusting and bolting the ploughs *d d* to the beams *e e*, so that their land-bars *f f* may be parallel at any width of spread at which the beams *e e* may be set. The two beams *e e* being fastened together at the front end, I make one of the beams *e e* longer than the other, so as to run one plough, *d*, sufficiently behind the other to give ample room for the turning of the furrow. The handles *g g* I fasten to the outside of the beams *e e*; they will spring sufficiently to accommodate themselves to the variation in the width of spread of the beams *e e*. I fasten the beams *e e* together at the front end by bolts or hinges; if with bolts, a wedge is inserted between the two beams *e e*, whenever the width of spread is such as to make it necessary. The adjustable extension-joint, fig. 4, and H, fig. 2, is constructed of two iron plates, (figs. 6 and 7,) having bolts *i i i i* at their corners for fastening them to the beams *e e*, and flanges *j j* on their edges. These plates (figs. 6 and 7) are made, one narrower than the other, so that the narrow plate (fig. 7) may slide in between the flanges of the wider plate, fig. 6, and leave a space on each side between it and the flanges *j j* of the wider plate, fig. 6, except at *k*, where it is sufficiently wide to exactly fill the space between the flanges *j j*, fig. 6 in any part of its length at which it may be desired to fit it, the flanges *j j* of the plate fig. 6 being parallel. In the narrower plate, fig. 7, is a hole, *m*, to receive the bolt *l*. In the flanges *j j* of the plate fig. 7 are two set-screws *n n*, for altering and adjusting the angle of the joint fig. 4, as may be required in setting the shares *o* in their proper respective position. In the wider plate fig. 6 is a long hole or slot, *P*, through which the bolt *l* passes, and in which it may slide and be readily secured at any point of extension that may be required to cut the furrow of the desired width. This construction enables the two ploughs to be readily so adjusted in relation to each other that one man can as easily hold the two ploughs as a single plough; and as we can therefore dispense with the use of wheels, it can be used in any ground, however rough, where a single plough can be used, and requires no more team in proportion to the breadth of land turned, than if the two ploughs used were single.

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

The adjustable extension-joint, fig. 4, constructed substantially as and for the purpose described in the foregoing specification.

LORING OTIS ROCKWOOD.

Witnesses:

E. ROSE,

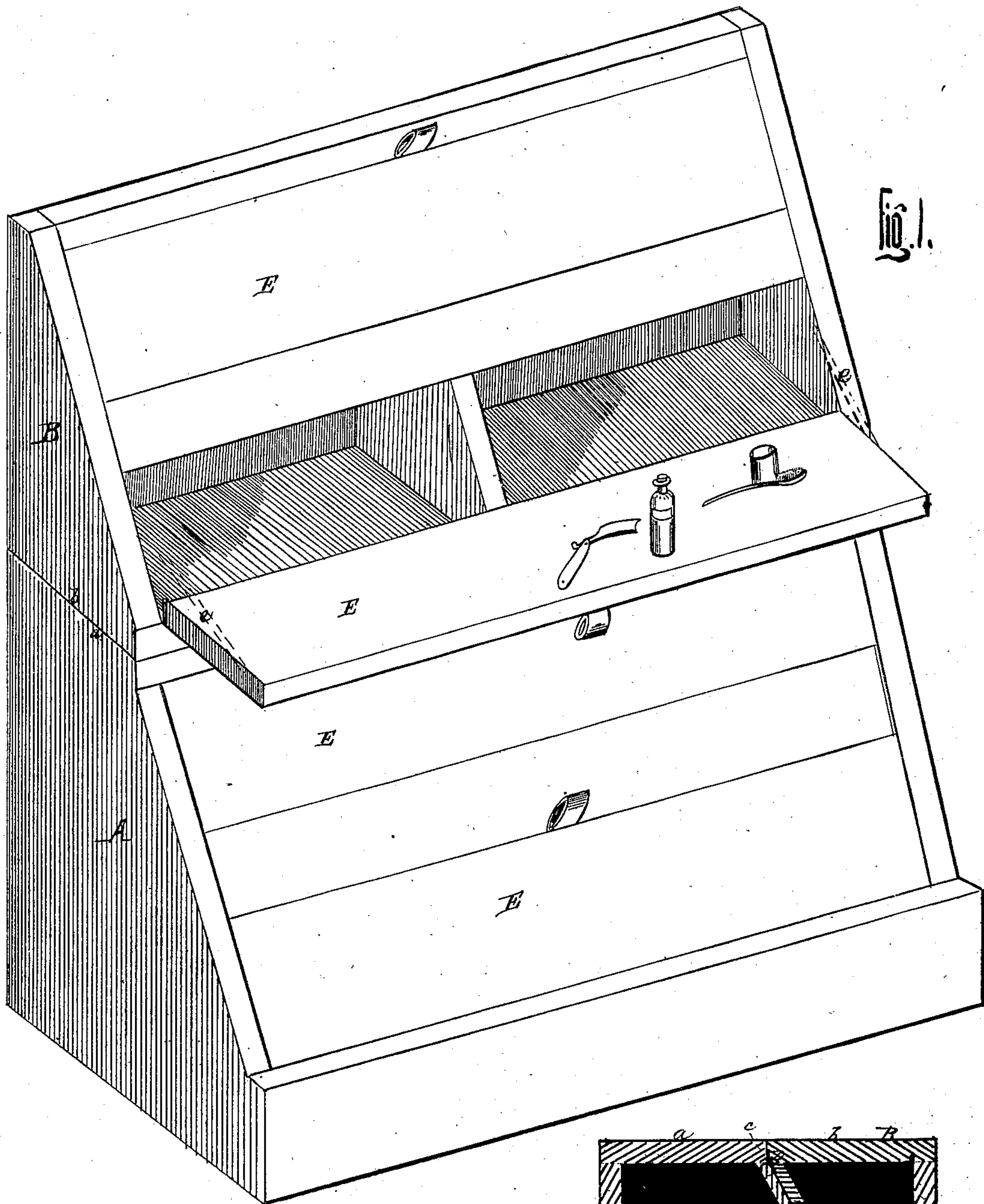
HENRY HISE.

C. A. Rose,

Trunk.

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*C. A. Rose
By Knight Bros
Attorneys*

Fig. 2.

*Witnesses:
Chas. D. Smith
Victor Hagemann*

