

J. W. RUDOLPH.
Agricultural Implement.

No. 214,709.

Patented April 22, 1879.

Fig. 1.

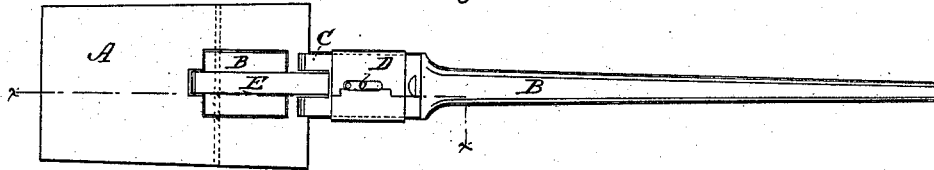


Fig. 2.



Fig. 3.

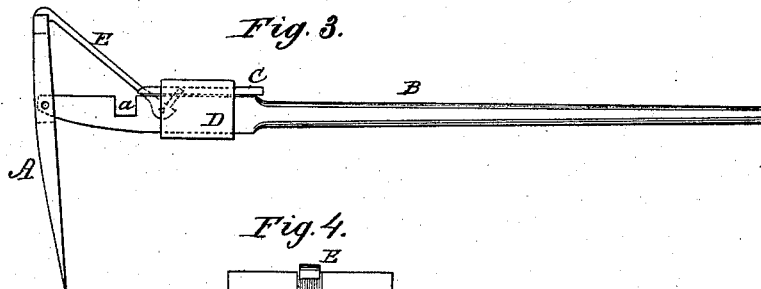
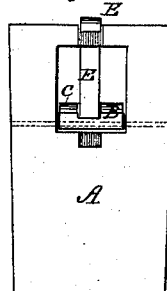


Fig. 4.



WITNESSES:-

W. W. Hollingsworth
Amos W. Hart

INVENTOR:

J. W. Rudolph
BY *[Signature]*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES W. RUDOLPH, OF CARMI, ILLINOIS.

IMPROVEMENT IN AGRICULTURAL IMPLEMENTS.

Specification forming part of Letters Patent No. **214,709**, dated April 22, 1879; application filed February 18, 1879.

To all whom it may concern:

Be it known that I, JAMES WESLEY RUDOLPH, of Carmi, in the county of White and State of Illinois, have invented a new and Improved Agricultural Implement; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention is an improvement in that class of implements which are so constructed as to adapt them for use either as a hoe or spade. The same is shown in accompanying drawings, in which—

Figure 1 is a plan view of the implement, with its parts adjusted to adapt it for use as a spade. Fig. 2 is a longitudinal section of same on line *x x* of Fig. 1. Fig. 3 is a side view, and Fig. 4 an end view, of the implement adjusted for use as a hoe.

A indicates a thin blade, which, when placed at one angle with the handle B, forms part of a spade, as in Fig. 1, and at another angle part of a hoe, Figs. 3, 4. The said blade A is slotted in the upper portion, and hinged at the bottom of said slot to the lower end of handle B. When the blade A is adjusted in line with the handle, Figs. 1 and 2, its upper portion lies in a recess or groove, *a*, of the handle, and is held by a slide, C, attached to the latter. In such relation of parts the implement is practically a spade, and may be used for digging, &c. To change the implement to a hoe, or adapt it for use as such, the blade A is adjusted at a right angle to the handle B, and held in such position by the latch E, as shown in Figs. 3 and 4.

The slide C is notched at its lower end and

held in a band, D, which encircles the handle B, and is provided with a lengthwise slot. When the slide is pressed down its lower end overlaps the upper end of the blade A, and holds it in the positions shown in Figs. 1 and 2. The latch E is pivoted in a recess formed in the handle, and its front end is provided with a claw, to adapt it for engaging with the upper end of the blade A, when the parts are adjusted to form a hoe, as in Figs. 3 and 4. A pin, *b*, is fixed in the upper end of the latch E, and projects up through the slot in band D. Said pin not only prevents the slide C escaping from the confinement of the band D, but likewise forms the required connection between the latch and slide, so that if the slide is drawn back from the position shown in Figs. 1 and 2 it will raise the latch out of the recesses or grooves in the blade A and handle B, and thus enable the parts to be adjusted in the alternative position.

I thus provide a strong, cheap implement, adapted for both hoeing and digging, and whose parts may be easily adjusted for either function.

What I claim is—

The combination of the slotted, hinged, and recessed or grooved blade A, the handle B, the latch E, hinged in a recess in the handle, and provided with a pin, *b*, the slide C, through which the said pin projects, and the slotted band or sleeve D, as shown and described.

JAMES WESLEY RUDOLPH.

Witnesses:

SAMUEL H. MARTIN,
R. A. MAYHEW.