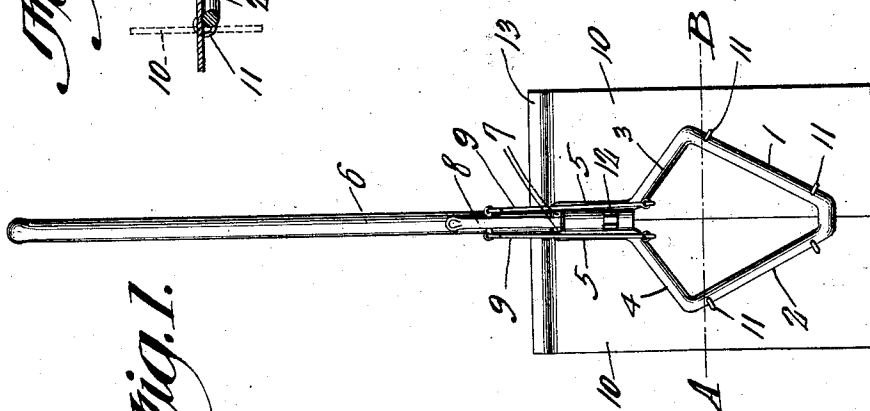
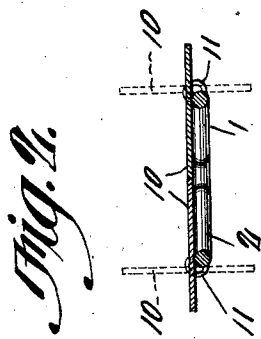
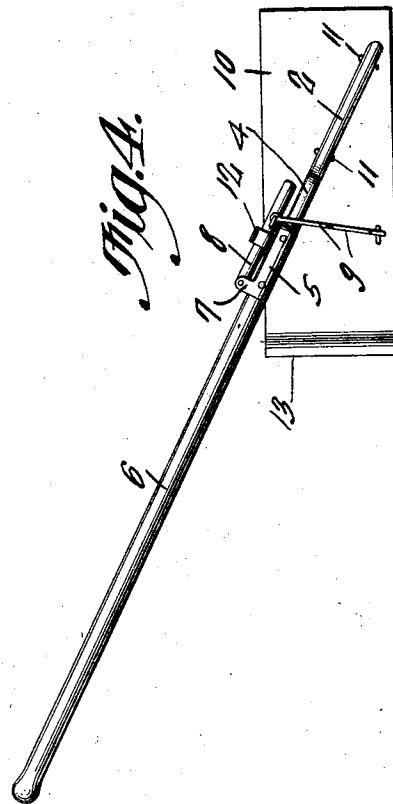
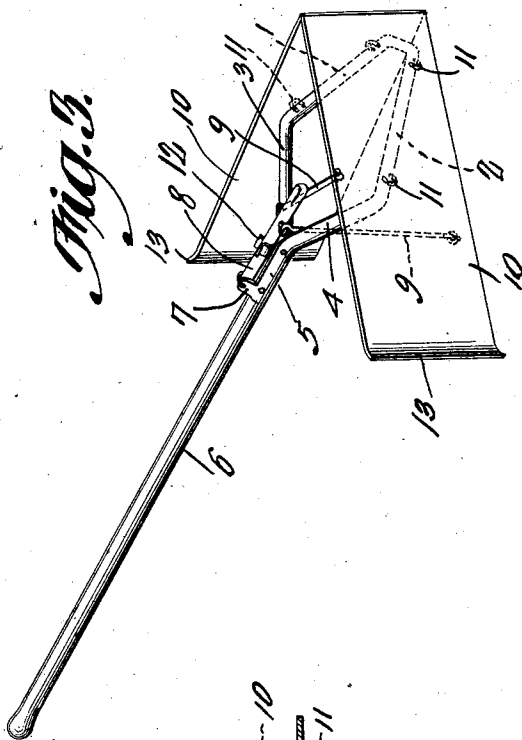


F. DARLING.
 COMBINED SNOW PLOW AND SHOVEL.
 APPLICATION FILED OCT. 7, 1912.

1,049,812.

Patented Jan. 7, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

FRANK DARLING, OF PLANO, ILLINOIS.

COMBINED SNOW PLOW AND SHOVEL.

1,049,812.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed October 7, 1912. Serial No. 724,397.

To all whom it may concern:

Be it known that I, FRANK DARLING, a citizen of the United States, residing at Plano, in the county of Kendall and State of Illinois, have invented a new and useful Combined Snow Plow and Shovel, of which the following is a specification.

This invention relates to a combined snow plow and shovel, one of its objects being to provide a light, durable and compact device of this character which can be converted quickly and easily into either a shovel or a plow without requiring the removal or the addition of any parts.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a rear elevation of the device arranged for use as a snow shovel. Fig. 2 is a section on line A—B Fig. 1. Fig. 3 is a perspective view of the device arranged for use as a snow plow. Fig. 4 is a side elevation of the snow plow, one of the blades being removed.

Referring to the figures by characters of reference 1 and 2 designate the upwardly diverging side arms of a substantially diamond-shaped backing frame made of a stiff metal rod, and extending from these arms 1 and 2 are upwardly converging arms 3 and 4 terminating in parallel portions 5. These portions are secured in any desired manner to opposite sides of a handle 6, said portions clamping tightly upon the handle. Ears 7 extend from the clamping portions 5 and pivoted between them is a lever 8 having links 9 pivotally connected to opposite sides thereof. Two similar oblong blades 10 are used in connection with the frame 1, these blades when used as part of a snow shovel being arranged with their inner edges in contact and with their back faces bearing against the backing frame. Each blade is hingedly connected, by means of rings 11 or the like, to one of the arms 1 and 2 and the links 9 are at-

tached to the blades 10 at points between but close to the upper ends of the arms 3 and 4. When the parts are thus located the lever 8 is extended upwardly under the handle 6, as shown in Fig. 1, it being apparent that the links 9, by extending back of and close against the arms 3 and 4, serve as means for locking the blades 10 and preventing their inner edges from swinging outwardly should the lower outer corners of the blades come into contact with unyielding obstructions which would tend to swing the blades about their hinge connections. Under ordinary conditions the pressure of snow or the like against the front faces of the blades serves to hold the blades properly positioned and to maintain the lever 8 in its upstanding position. Should it be desired to convert the device into a snow plow, lever 8 is swung backwardly and downwardly, thereby causing the links 9 to push upon the inner edge portions of the blades 10 and to cause said blades to swing about their hinge connections 11. Thus the bottom edges of the blades will fold together and the blades will assume positions at opposite sides of the backing frame, as shown in Figs. 3 and 4. The parts are locked in these positions by bringing the lever 8 into engagement with a clip 12 which is mounted on the handle 6 at a point between the clamping portions 5. With the lever thus held it will be seen that links 9 will act as braces to prevent the blades 10 from swinging relative to each other. As the blades are preferably formed of heavy sheet metal they will spring, to a slight extent, when swung together as in Fig. 3 so as thus to insure a tight fit between the parts.

It will be seen that the upper ends of the blades 10, when used as a shovel, are formed with upcurved flanges or wings 13 and, consequently, when the device is arranged for use as a snow shovel, these wings curve laterally as shown in Fig. 3.

What is claimed is:—

1. The combination with a shovel including opposed blades, of means for shifting the blades relative to each other to form a plow.

2. A shovel including opposed blades adjustable angularly about converging axes.

3. A shovel including opposed blades adjustable angularly about converging axes, and means for holding the blades in adjusted position.

4. The combination with a backing, of

blades adapted to bear on the backing to form a shovel, and means for adjusting the blades angularly about converging axes upon the backing to form a plow.

5 5. A shovel including a backing, blades connected thereto and means for simultaneously adjusting the blades angularly about converging axes to fold them together at one end to form a plow.

10 6. A shovel including a backing, blades connected thereto, means for simultaneously adjusting the blades angularly about converging axes to fold them together at one end to form a plow, and means for locking the blades when folded.

15 7. The combination with a backing, of blades hingedly connected to opposed sides thereof and normally bearing on the backing, means for simultaneously swinging the blades about converging axes to bring them together at one end and form a plow, and means for locking the blades in such position.

20 8. The combination with a backing and a handle connected thereto, of opposed similar blades normally bearing against the backing to form a shovel, said blades being connected to opposite sides of the backing and adapted to swing relative thereto about converging axes, an actuating device adjacent the handle, and link connections between said device and the blades.

25 9. The combination with a backing and a handle connected thereto, of opposed similar blades normally bearing against the backing to form a shovel, said blades being connected

to opposite sides of the backing and adapted to swing relative thereto about converging axes, an actuating device adjacent the handle, links connecting said device to the inner edge portions of the blades and co-operating with the backing to secure the blades in position for use as a shovel, said links constituting means for swinging the blades about their axes and folding them together at one end when the lever is shifted in one direction relative to the handle. 40 45

10. The combination with a backing and a handle connected thereto, of opposed similar blades normally bearing against the backing to form a shovel, said blades being connected to opposite sides of the backing and adapted to swing relative thereto about converging axes, an actuating device adjacent the handle, links connecting said device to the inner edge portions of the blades and coöperating with the backing to secure the blades in position for use as a shovel, said links constituting means for swinging the blades about their axes and folding them together at one end when the lever is shifted in one direction relative to the handle, and means for engaging the lever to hold it against movement. 50 55 60

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses. 65

FRANK DARLING.

Witnesses:

GEORGIA E. HISCOCK,
C. M. WALL.