

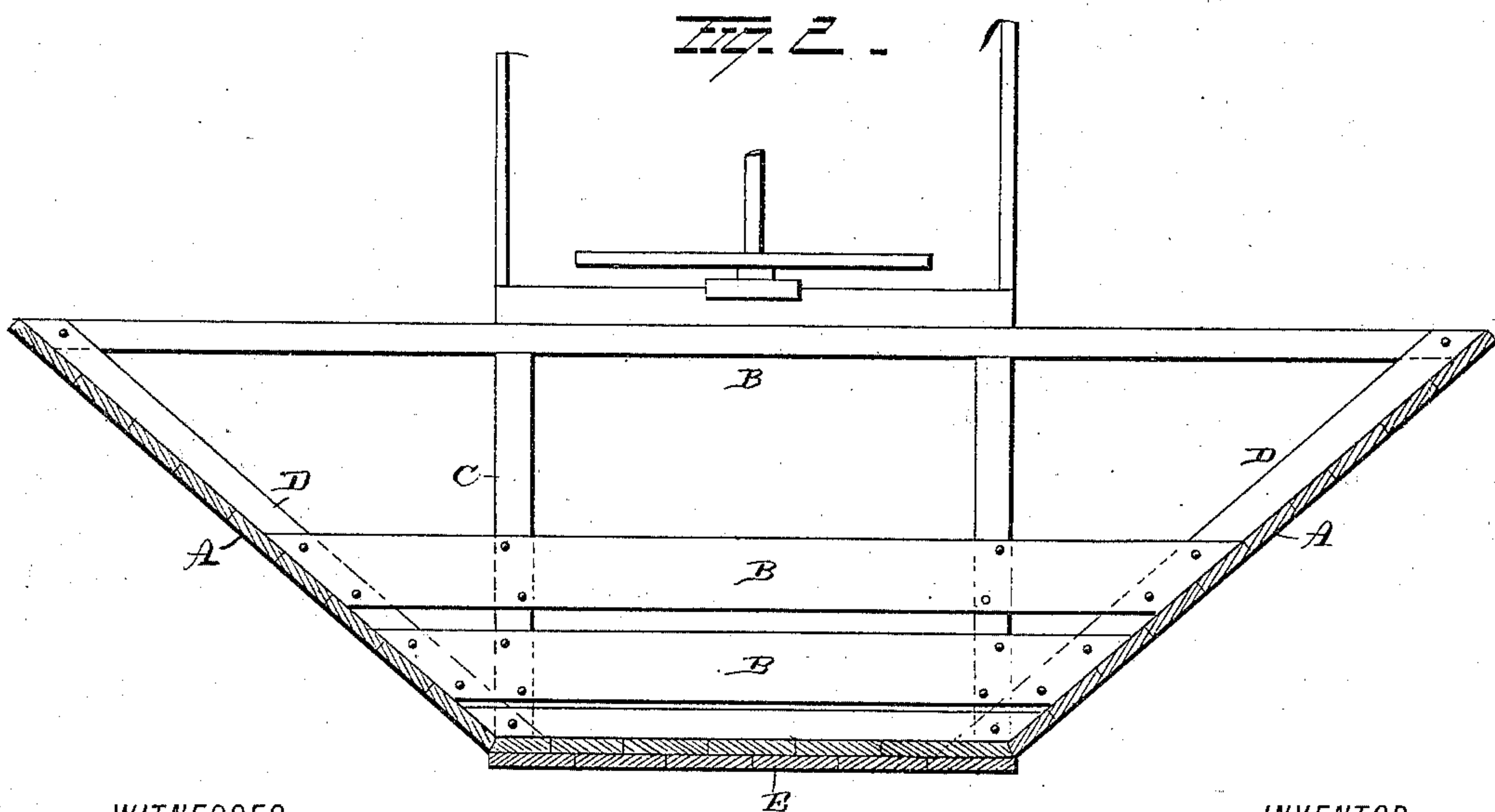
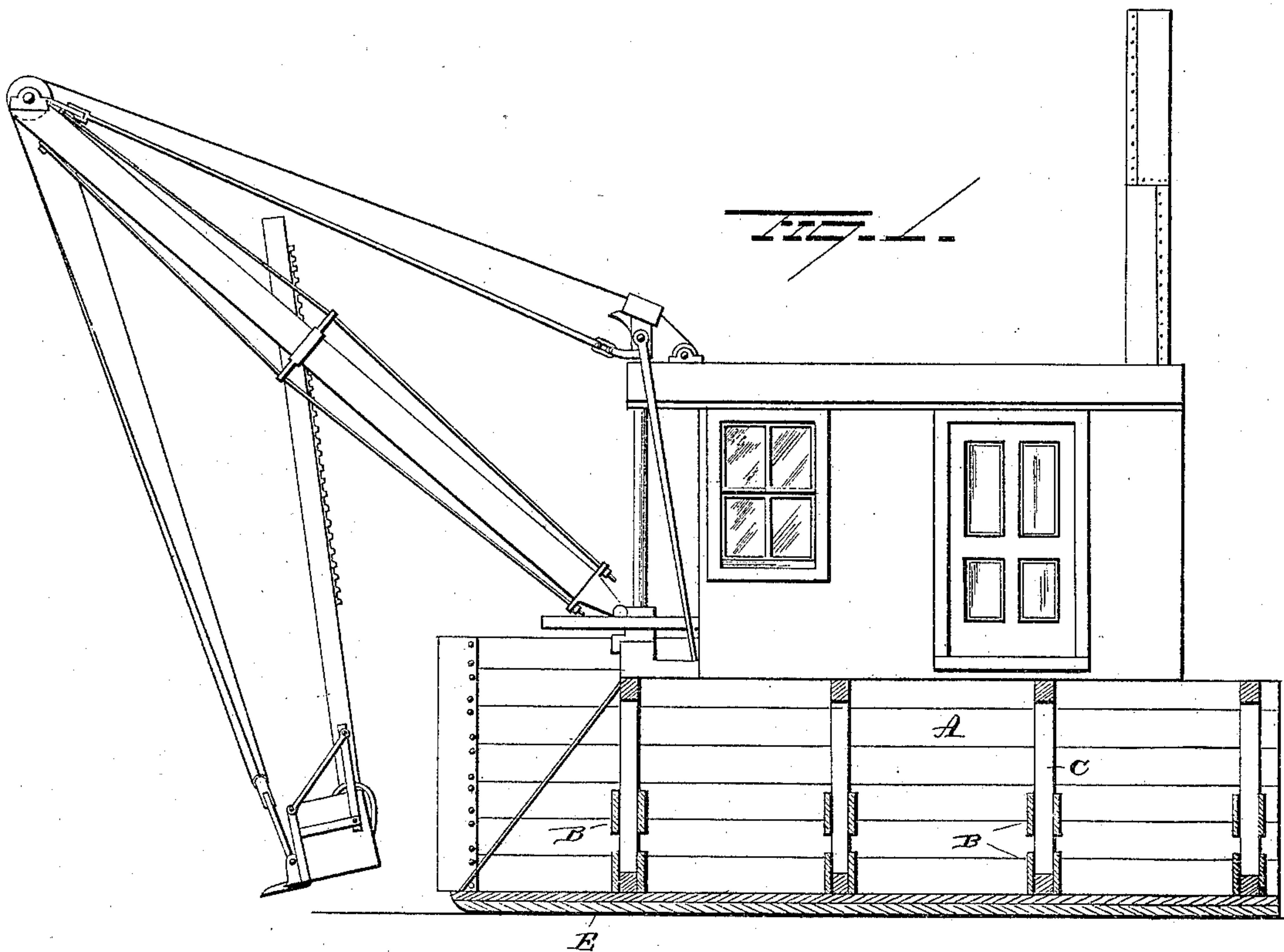
(No Model.)

G. W. KING.

SUPPORTER FOR DITCHING MACHINES.

No. 335,759.

Patented Feb. 9, 1886.



WITNESSES

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GEORGE W. KING, OF MARION, OHIO.

SUPPORTER FOR DITCHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 335,759, dated February 9, 1886.

Application filed October 15, 1885. Serial No. 179,983. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. KING, of Marion, in the county of Marion and State of Ohio, have invented certain new and useful

5 Improvements in Supports for Ditching-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and
10 use the same.

My invention relates to an improvement in supports for ditching-machines. It often happens that the soil through which a ditch is to be cut is so soft that it will not support
15 the wheels of a ditching-machine, and it also is often desirable to deepen or clear out old ditches in which the mud is very soft or the ditch partially filled with water, and the banks not firm enough to support a machine of the
20 ordinary construction.

The object of my present invention is to provide a support for any of the improved forms of ditching-machines which will admit of the machine being advantageously employed
25 in deepening ditches partially filled with mud or water, or both, the banks of which are soft, and for cutting new ditches through soft or hard ground.

With this end in view my invention consists
30 in a suitable frame-work having a sled or runner bottom adapted to support a ditching-machine.

My invention further consists in certain features of construction and combinations of
35 parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal vertical section through the support located in a ditch and having an ex-
40 cavator mounted thereon, and Fig. 2 is a transverse section of the same.

A represents the outside covering of the frame-work, which may be of planking or metal provided with flaring sides, having a
45 width suitable to admit it between the sides of the ditch, and so braced by cross-girders B, uprights C, and diagonal braces D, or otherwise to suit different sized and proportioned ditchers that it will form a stable support for
50 the excavator. The bottom of the frame-work

E may or may not be curved upwardly in front, and forms a sled or runner on which the support may be readily slid along in the soil or mud.

It is intended that the excavator shall be
55 operated from the end of a swinging crane, as shown, reaching out in front of the support, and that the support shall be drawn along by means of a purchase secured to an anchoring set in advance. 60

The frame-work A may be either covered without regard to having it water-tight, or it may be made water-tight, and hence serve to carry part of the weight when there is water in the ditch. 65

The front edges of the covering of the support are preferably provided with cutters E, adapted to trim the edges of the ditch; but these are not necessarily attached.

The deck of the frame-work is adapted to
70 support any of the ordinary forms of ditching-machines which can be employed to excavate in front of the support.

The support is quite inexpensive, and it admits of the use of the best forms of excava-
75 tors in places where they have not heretofore been capable of use, and thus serves to satisfy a long felt need.

Having fully described my invention, what I claim as new, and desire to secure by Letters
8c Patent, is—

1. The combination, with a hollow frame constructed substantially as described, and having flaring sides and a sled or runner bot-
85 tom, of an excavator mounted on said frame, substantially as set forth.

2. A support for ditching-machines, consisting, essentially, of a frame-work provided with a sled or runner bottom and flaring sides adapted to fit within the ditch, and cutters se-
90 cured to the front edges, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscrib-
ing witnesses.

GEORGE W. KING.

Witnesses:

J. E. DAVIDS,

JENNIE M. DAVIDS.