

Feb. 14, 1967

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3,304,041

ADJUSTABLE SUPPORT FOR EXCAVATION BATTER BOARDS

Filed Jan. 13, 1966

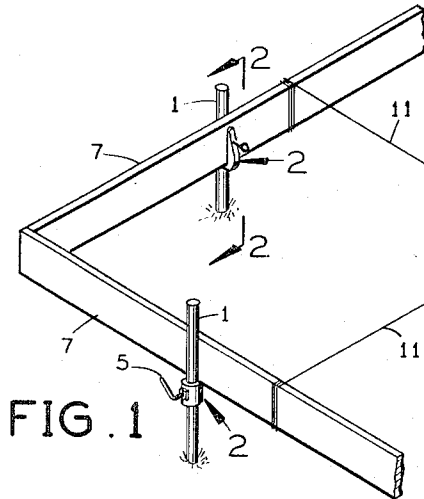


FIG. 1

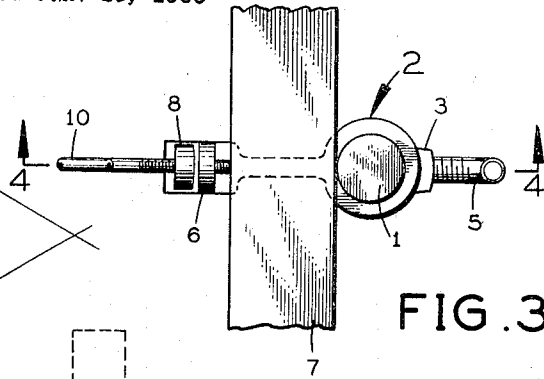


FIG. 3

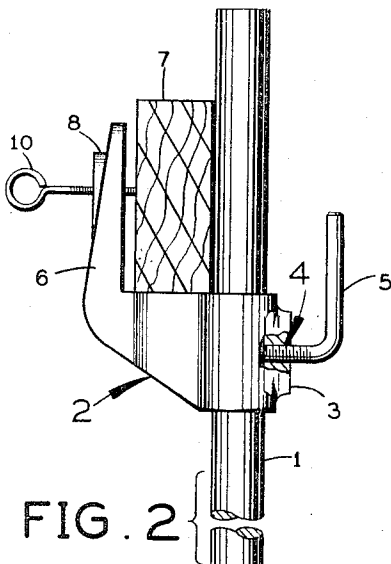


FIG. 2

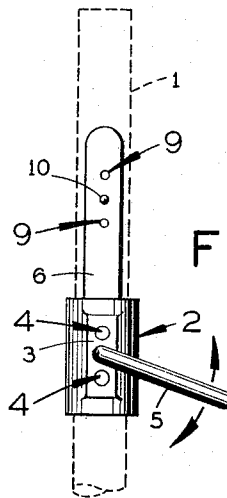


FIG. 5

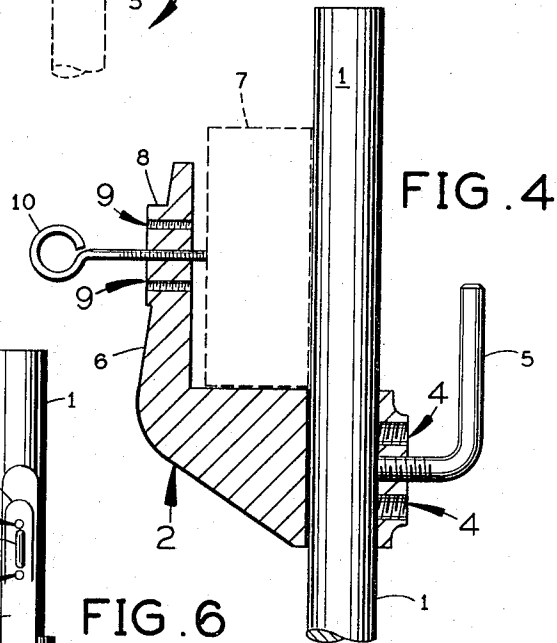


FIG. 4

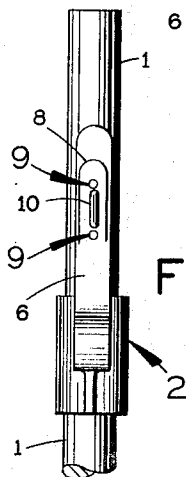


FIG. 6

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1

3,304,041
**ADJUSTABLE SUPPORT FOR EXCAVATION
BATTER BOARDS**
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Filed Jan. 13, 1966, Ser. No. 520,472
1 Claim. (Cl. 248—156)

This invention relates in general to devices for building excavations, and more particularly to reusable staking devices for retaining and adjusting batter boards used to outline and dimension configurations in proximity to the earth to be excavated.

Prior to the present invention, batter boards were commonly retained in approximate formation above the earth by nailing or otherwise fastening same to wood stakes driven into the earth. The driving of the wood stakes in the earth is often met with difficulty, such as hard formation, stones, and other impediments which prevent the stakes from being accurately and securely driven and often the stakes are split or deformed during the driving operation, thus resulting in a loss of time and accuracy with the marking of an excavation configuration.

The present invention overcomes the above objections and disadvantages by the provision of a slender iron or steel stake which may be readily driven into hard or stony earth and with the added provision of an adjustable clamp means slidably positioned on the stake for securely clamping a batter board to the stake and with provision for horizontal adjustment of same, which construction is a principal object of the invention.

Another object of the invention is the provision of a reusable batter board support device which includes a cylindrical iron or steel stake preferably pointed at one end for ease of penetration when vertically driven into the earth and a body member slidably positioned on said stake having an offset vertical arm member for securely clamping a batter board to said stake and screw means for adjustably securing said body member to said stake.

These and other objects in one embodiment of the invention are described and shown in the following specification and drawing, in which:

FIG. 1 is a fragmentary perspective view of the right angle junction of two batter boards retained by two batter board supports.

FIG. 2 is an enlarged cross sectional elevation taken through section line 2—2, FIG. 1.

FIG. 3 is a fragmentary top view of the support shown in FIG. 2.

FIG. 4 is a fragmentary side elevation taken through section line 4—4, FIG. 3.

FIG. 5 is an inside end elevation of elements shown in FIG. 2.

FIG. 6 is an outside end elevation of elements shown in FIG. 2.

Referring to FIGS. 1 and 2, a pair of cylindrical metal rods or stakes 1, preferably steel or iron and pointed at one end, are adapted to be driven substantially vertically into the earth in predetermined relation for the support of at least two parallel batter boards, which boards are usually arranged in a configuration outlining an excavation required in the earth.

A body member 2 has a bore therethrough for slidable engagement on rod 1 and has an integral boss 3 with three parallel threaded bores 4 therethrough normal the axis of the rod 1. A right angle locking lever-screw 5

2

is threaded into one of said bores for locking engagement with rod 1. The extra two threaded bores 4 are available in the event of the stripping of the threads in the original bore used.

Referring to FIGS. 2, 4, and 6, an offset vertical arm 6 is integral with body member 2 and has a rectangular inner shape for receiving a board 7 of rectangular cross section and various thickness, commonly called a batter board, with one side of each board positioned against rod 1, as shown. The arm portion 6 is provided with an integral boss 8 through which there are three spaced threaded bores 9 normal to the axis of rod 1. A set screw 11 is threaded into a selected one of bores 9. As in the body, the extra two bores in the arm are available in the event of the stripping of the threads in the bore used.

In operation, the posts are driven into the earth, by using a conventional protective cap upon the upper end thereof, not shown, in a formation whereby the batter boards are secured between the arms 7 and the rods and clamped therein by screws 10.

It is apparent that by loosening lever-screw 5 the body 2 may be adjusted vertically on rod 1 to attain the desired horizontal position of the batter boards. Thus when the boards are properly in place, guide lines or wire 11 may be secured and strung on boards at desired locations and directions as an accurate guide for excavating the earth in relation to the lines, such as is illustrated in FIG. 1.

It is understood that certain modifications in the construction, utilizing the features above described, are intended to come within the scope of the appended claim.

Having described my invention, I claim:

In combination support means; plural mensuration batter boards and at least two like straight round metal stakes of predetermined length and uniform cross section, which are adapted to be driven into the earth in predetermined spaced vertical relation, said support means comprising

- a body member comprising an elongated cylinder having a coaxial cylinder bore therethrough for a slidable linear and rotational movement on each of said stakes including a vertical arm extending upward from said cylinder with the inner surface thereof in predetermined parallel spaced relation to the axis of said bore and a vertical web integral with said cylinder and said arm and having an upper surface on said inner surface for supporting and reinforcing the vertical arm,
- a first boss extending outward from said cylinder and including a first threaded hole through said boss and said cylinder substantially normal the axis of said bore,
- a first hand screw threaded into said first hole for end engagement with each of said stakes for securing said cylinder in a predetermined vertical and azimuthal position thereon,
- a second boss projecting from the outer side of said arm and integral therewith and including a second threaded hole therethrough substantially normal the axis of said bore,
- a batter board supported at opposite end portions thereof by each said body member and resting on said upper surface of said web between each of said stakes and each corresponding said vertical arm,

3

a second handscrow threaded through said second hole
for engaging and clamping a batter board against the
side of each of said stakes in predetermined relation
to the surface of said earth whereby mensuration
lines may be attached to any position along said 5
batter board for mensuration purposes.

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