MOBILE HOME ANCHOR

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ABSTRACT

A mobile home anchor which includes a concrete slab poured in the surface of the ground and having a foundation extending downwardly therefrom. The slab has a metallic eye anchored therein and extending above the top surface thereof. The mobile home is positioned on the concrete slab and a plurality of extensible and contractible brackets are hooked to the frame of the mobile home and to the eyes extending upwardly from the concrete. The frame is blocked up by fixed blocks resting on the slab and the brackets are tightened to draw the frame down to the blocks to rigidly anchor the mobile home in its position on the slab.

1 Claim, 10 Drawing Figures
MOBILE HOME ANCHOR

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a tie down anchor for mobile homes.

2. Summary of the Invention

A concrete slab is cast with a foundation portion extending downwardly therefrom and with a plurality of metallic eyes cast in the concrete and extending thereabove. An extensible and retractible bracket extends between each eye in the concrete and to one of the frames of the mobile home. The frames have been blocked up on blocks positioned on the concrete slab so that as the bracket is tightened the frame is drawn down into rigid contact with the blocks to thus anchor the mobile home to the slab.

The primary object of the invention is to provide a tie down anchor for mobile homes to prevent the home from being buffeted by the wind and from getting out of level.

Other objects and advantages will become apparent in the following specification when considered in the light of the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a side elevation of the invention;
FIG. 2 is an end elevation of the invention;
FIG. 3 is an enlarged fragmentary sectional view taken on the line 3—3 of FIG. 1 looking in the direction of the arrows;
FIG. 4 is an elevational view of the bracket used in FIGS. 1 through 4;
FIG. 5 is a side elevational view of one of the metal eye members shown partially in section for convenience of illustration;
FIG. 6 is a view similar to FIG. 3 illustrating the anchor being used with a different width trailer;
FIG. 7 is a view similar to FIG. 3 of a modified form of the invention;
FIG. 8 is a view similar to FIG. 3 of another modified form of the invention;
FIG. 9 is a view similar to FIG. 3 of still another modified form of the invention; and
FIG. 10 is a view similar to FIG. 3 of still another modified form of the invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawings in detail wherein like reference characters indicate like parts throughout the several figures the reference numeral 10 indicates generally a mobile home anchor constructed in accordance with the invention.

The mobile home anchor 10 is used with a mobile home 11 normally supported on a plurality of wheels 12 and having a conventional tongue 13 positioned thereon for towing the mobile home 11 from place to place. A pair of eye beams 14 extend from end to end of the mobile home 11 in spaced apart parallel relation. A pair of concrete slabs 15 are cast in the ground 16 with a foundation leg 17 extending substantially below the slab 15. A plurality of generally U-shaped metallic hooks 18 are held in upright position and cast into the slab 15 and foundation extension 17, as can be seen in FIG. 3, with the upper end thereof extending above the upper surface of the slab 15. Anchor members generally indicated at 19 engage the hook 18 at one end and the eye beam 14 at the other end so that when they are tightened the eye beam 14 is drawn downwardly toward the slab 15. A plurality of stacks of blocks 20 are positioned on the slab 15 in supporting relation to the eye beams 14 at spaced intervals therealong so that the eye beams 14 may be drawn down against the stack of blocks 20 as the brackets 19 are tightened.

The brackets 19 each include an L-shaped member 21 having a loop engaging hook 22 formed on one end thereof. A second L-shaped member 23 has an angular hook 24 integrally formed thereon and an elongate bolt 24' extends through the faces of the L-shaped members to be used to draw the L-shaped members together in order to tighten the bracket 19.

In FIG. 6 there is illustrated the use of the bracket 19 where the angle between the eye beam 14 and the hook 18 is somewhat greater than that in the case illustrated in FIG. 3.

In FIG. 7 a modified bracket is illustrated generally at 119 for use with an eye beam 114 having a bore 114' extending therethrough. The eye beam is supported on a block pile 120 carried by a slab 115 formed with a foundation leg 117. A hook 118 is embedded in the concrete of the slab and foundation and has a portion extending above the upper portion of the slab 115. The bracket 119 includes an L-shaped member 121 having a hook 122 formed thereon. An elongate bolt 124' has an angular hook 124 formed on its upper end for engagement in the bore 114'. Tightening of the bracket 119 draws the eye beam 114 down toward the slab 115 into contact with the top of the block pile 120.

In FIG. 8 another modified form of the invention is illustrated generally and includes a concrete slab 215 having a generally U-shaped member 221 engaged under one edge thereof and extending upwardly therefrom. A stack of blocks 220 supports a tubular beam 214 forming part of a mobile home. An L-shaped member 223 is secured to the beam 214 by a bolt 213. The elongate bolt 224 engages between the U-shaped member 221 and the L-shaped member 223 to draw them together to pull the beam 214 tightly against the stack of blocks 220.

In FIG. 9 another modified form of the invention is illustrated wherein the eye beam 314 has a bore 314' extending therethrough. The eye beam 314 is supported on a stack of blocks 320 on a reinforced concrete slab 315. A hook 318 is cast into the slab 315 to receive an extensible and retractible bracket indicated generally at 319. The bracket 319 includes a U-shaped member 324 having a bolt 321 secured to one end thereof and having a hook 322 integrally formed thereon. A bolt 323 extends from the other end of the U-shaped member 324 to the bore 314' in the eye beam 314.

Tightening the bracket 319 draws the beam 314 tightly down against the stack of blocks 320.

In FIG. 10 still another modified form of the invention is illustrated and includes an eye beam 414 having a loop 414' rigidly secured thereto. A stack of blocks 420 supports the eye beam 414 and is in turn supported on the reinforced concrete slab 415. A hook 418 is embedded in the concrete slab 415 and extends slightly thereabove. A bracket indicated generally at 419 includes an L-shaped member 421 having a hook 422 integrally formed on one end thereof for engagement with the hook 418. A bolt 424 is threaded through the
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base of the L-shaped member 421 and has a hook 425
formed thereon for engaging through the loop 414'.
Tightening of the bracket 419 draws the beam 414
down tightly against the stack of blocks 420.

Having thus described the preferred embodiments of
the invention it should be understood that numerous
structural modifications and adaptations may be re-
sorted to without departing from the spirit of the inven-
tion.

I claim:

1. An anchor for mobile homes of the type having
longitudinally extending support beams including hori-
zontal portions forming part thereof comprising a con-
crete slab, a plurality of metallic loops embedded in
said concrete slab, a plurality of supports positioned in
spaced apart relation along said concrete slab for sup-
porting said support beams, a plurality of extensible,
retractible brackets extending between the beams of
said mobile home and said loops for drawing said
beams toward said slab into tight engagement with said
supports to anchor said mobile home, said extensible,
retractible brackets including a pair of rigid L-shaped
members having spaced apart parallel integral bases, a
rigid threaded bolt extending through and adjustably
connecting said bases for drawing the bases together,
a hook integrally formed on one of said L-shaped mem-
bers for detachable engagement with one of said em-
bedded loops, and an angular hook integrally formed
on the other of said L-shaped members for detachable
connection to a horizontal portion of one of said sup-
port beams.

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