F. S. SAMMEL.

ANCHORING MEANS FOR HEAVY ARTICLES.

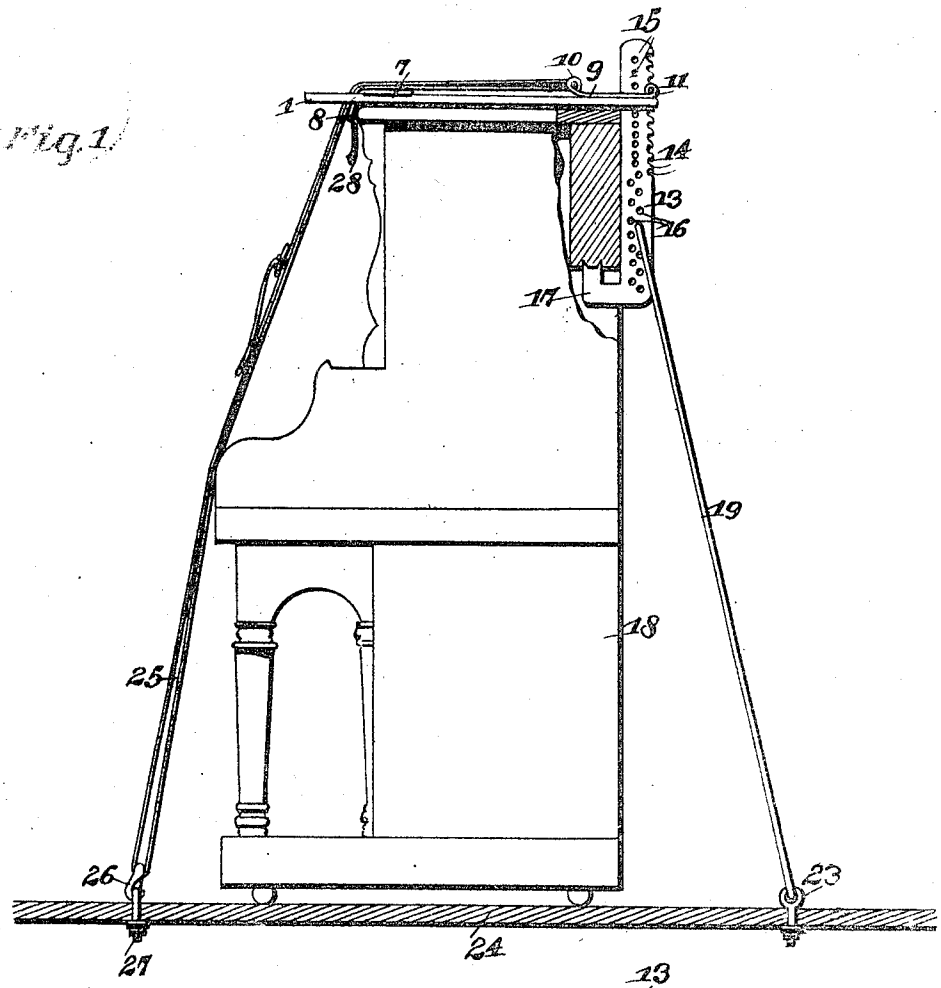
APPLICATION FILED SEPT. 19, 1916.

1,208,667.

Patented Dec. 12, 1916

2 SHEETS—SHEET 1.

Fig. 1.



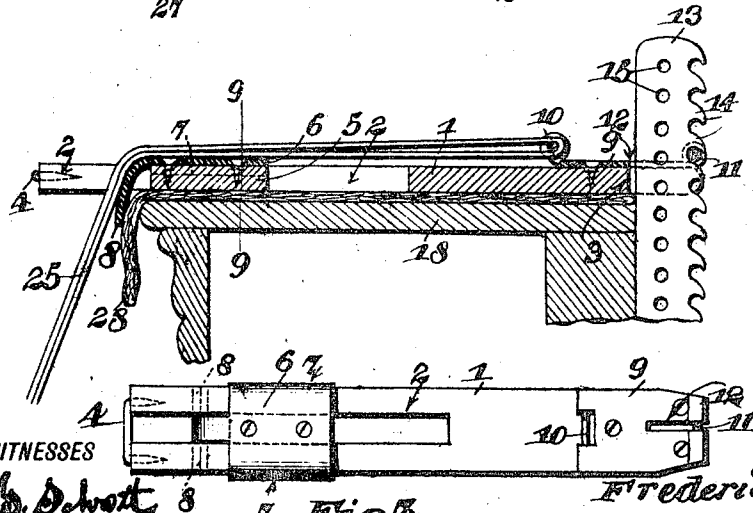


Fig. 2.

Fig. 3.

WITNESSES

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2 SHEETS—SHEET 2.

Fig. 4.

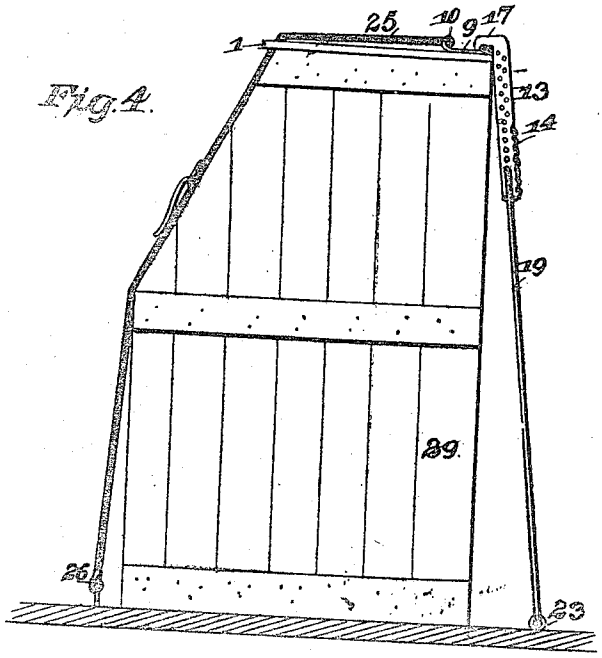


Fig. 5.

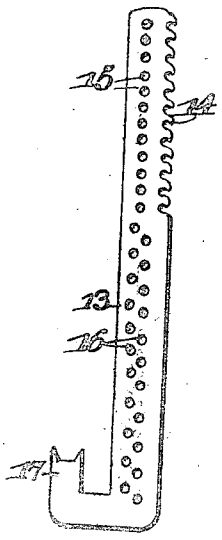


Fig. 6.

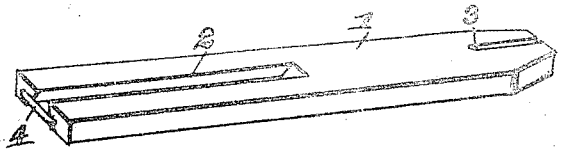


Fig. 1.

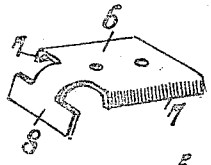
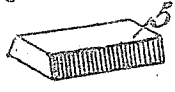


Fig. 8.



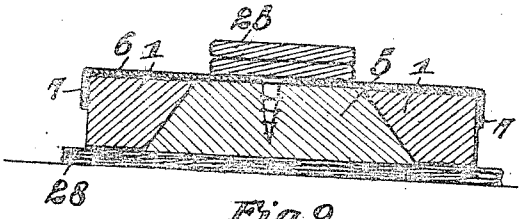


Fig. 9.

Fig. 10.

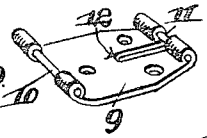


Fig. 11.

Fig. 12.

WITNESSES

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UNITED STATES PATENT OFFICE.

FREDERICK STOCK SAMMEL, OF BEDFORD, PENNSYLVANIA.

ANCHORING MEANS FOR HEAVY ARTICLES.

1,208,667. Specification of Letters Patent. Patented Dec. 12, 1916.

Application filed September 19, 1916. Serial No. 121,032.

To all whom it may concern:

Be it known that I, FREDERICK S. SAMMEL, a citizen of the United States, and a resident of Bedford, in the county of Bedford and State of Pennsylvania, have invented a certain new and useful Improvement in Anchoring Means for Heavy Articles, of which the following is a specification.

My invention is an improvement in anchoring means for heavy articles, as for instance pianos, automobiles, packing cases, and the like, wherein mechanism is provided capable of adjustment to bodies of various size for firmly anchoring said bodies to the floor of a car or the like, to prevent movement of the same during transportation.

In the drawings: Figure 1 is a side view with parts in section, showing the application of the improved anchoring means to a piano; Fig. 2 is an enlarged vertical section through the fulcrum board; Fig. 3 is a top plan view of the said board; Fig. 4 is a side view showing the attachment applied to a cased piano; Fig. 5 is a side view of the grab plate; Figs. 6, 7, 8, and 10 are perspective views of the separated elements of the fulcrum board; Fig. 9 is a section on the line 9—9 of Fig. 2; Fig. 11 is a perspective view of the stanchion, and Fig. 12 is a similar view with parts in section, of a modified form of stanchion.

In the embodiment of the invention shown in the drawings, an adjustable fulcrum board is provided, extending transversely of the top of the packing case, piano, or the like, the said board consisting of a fixed portion 1 having each end longitudinally slotted as indicated at 2 and 3, and the side walls of the slot 2 are beveled and converge toward the top of the board. The outer end of the slot is closed by a staple 4, and the plate and block shown in Figs. 7 and 8 are mounted to slide in the slot 2. The block 5 has its side walls beveled as shown, to fit the bevel of the slot and the plate 6 is provided at each side with a depending flange 7, said flanges being adapted to fit the opposite side edges of the plate, and provided with openings as shown, for permitting the passage of screws to secure the plate to the block.

The inner end of plate 6 is provided with a T-shaped head 8. This head 8 engages beneath the fulcrum block, the neck which connects the head to the plate passing through the slot. At the opposite end the plate 9, shown in Fig. 10, is arranged, the said plate having openings for receiving screws to secure the plate to the board, and at each end this plate is provided with bearing lugs, each pair of bearing lugs supporting a journal pin 10 and 11 respectively.

The plate is slotted between the bearing lugs which support the pin 10, as indicated at 12 and the grab plate 13 shown in Fig. 5, is passed through the slot 12, the said plate having in its upper end a series of ratchet teeth 14 for engaging the journal pin 11. This plate 13 is also provided at its upper end with a longitudinally extending alined series of openings 15, and at its lower end with a series 16 of openings which are arranged in two rows, as shown, the members of the rows being staggered. At its lower end the said plate is provided with an inwardly and upwardly extending lug 17 having pointed spurs, as shown, for engaging within the material of the back of the piano 18, as seen in Fig. 1, to anchor the said plate against tilting movement.

A stanchion 19 is provided at one end with a hook 20, and at the other with an angular perforated lug 21 which is adapted to receive a cotter pin 22. This lug 21 is adapted to engage one of the openings of the series 16, and the cotter pin prevents disengagement of the lug from the opening. The hook 20 is adapted to engage an eye bolt 23 secured to the floor 24 of the car or other space to which the package is to be anchored. A double strap 25 is connected with the journal pin 10, and said strap has its ends connected by a buckle as shown, and a snap hook 26 is arranged at the other end of the double strap, said hook being adapted to engage an eye bolt 27 also secured to the floor 24 of the car. When the device is used in connection with a piano or other package having a surface that may be injured, a pad 28 of felt or the like is arranged beneath the fulcrum board and between the same and the surface upon which the board is to rest.

In Fig. 4 the improvement is shown in connection with a cased piano 29 and with the grab plate somewhat differently arranged. In this arrangement, the grab plate 13 is reversed, the lug 17 engaging over the pin 11, while the stanchion 19 engages one of the openings of the series 16.

In Fig. 12 is shown a modified form of stanchion, the stanchion consisting of sections 30 and 31, the section 31 being tubular and internally threaded, while the section

30 engages therein. The section 30 has an eye 32 for engaging the eye bolt, while the section 31 has an angular perforated lug 33.

In applying the improvement in the manner indicated in Fig. 1, the stanchion and grab plate are properly adjusted with respect to each other and with respect to the fulcrum board. The block 5 and the plate 6 are then adjusted, as shown in Fig. 2, until the head 8 engages the package, the felt pad 28 being between the said head and the package. The strap is now applied, passing over the sliding block and plate, and after the snap hook has been engaged with the eye bolt 27, the strap may be tightened to properly secure the parts by means of the buckle. The slide block and plate provide an adjustable member over which the strap may pass at one face of the package.

I claim:—

1. A device of the character specified, comprising a fulcrum board adapted to be arranged transversely of a body to be secured, said board having at one end a longitudinally extending guideway and a bearing block slidable in the guideway, said board having at the other end a longitudinally extending slot, and a journal pin at the outer end of the slot, a grab plate adapted to pass through the slot and having teeth for engaging the journal pin, said plate having a longitudinally extending series of openings and a stanchion having an angular portion for engaging one of the openings and having a hook at the opposite end for engaging an eye bolt, a strap having its ends adjustably connected and having a snap hook adapted to engage the eye bolt at the opposite side of the package from the stanchion, said strap being adapted to pass over the bearing block, the fulcrum board having means for engagement by the end of the strap remote from the snap hook, said grab plate having at the edge remote from the teeth laterally offset pointed spurs or lugs, and the stanchion being adjustable in length.

2. A device of the character specified comprising a fulcrum board adapted to be arranged transversely of a body to be secured, said board having at one end a longitudinally extending guideway, and a bearing block slidable in the guideway, said board having at the other end a longitudinally extending slot, and a journal pin at the outer end of the slot, a grab plate adapted to pass through the slot and having teeth for engaging the journal pin, said plate having a longitudinally extending series of openings, a stanchion having an angular portion for engaging one of the openings and having a hook at the opposite end for engaging an eye bolt, a strap having its ends adjustably connected and having a snap hook adapted to engage the eye bolt at the opposite side of the package from the stanchion, said strap being adapted to pass over the bearing block, and the fulcrum board having means for engagement by the end of the strap remote from the snap hook.

3. A device of the character specified, comprising a fulcrum board adapted to be arranged transversely of the body to be secured in place, a grab plate adjustably connected with one end of the board, a flexible member connected with the said board and adapted to extend longitudinally of the board and to a connection with the supporting surface for the body at the opposite side from the grab plate, a bearing block adjustable on the board for engagement by the flexible member, said member being adjustable in length, and a stanchion for connection with the grab plate at one end and adapted to engage the supporting surface at the other, said stanchion consisting of sections adjustably connected with each other.

4. A device of the character specified, comprising a fulcrum board adapted to be arranged transversely of the body to be secured in place, a grab plate adjustably connected with one end of the board, a flexible member connected with the said board and adapted to extend longitudinally of the board, and to a connection with the supporting surface for the body at the opposite side from the grab plate, a bearing block adjustable on the board for engagement by the flexible member, said member being adjustable in length, and a stanchion having connection with the grab plate at one end and adapted to engage the supporting surface at the other.

5. A device of the character specified comprising a fulcrum board adapted to extend transversely of the object to be secured in place, means connected with one end of the board and adjustable with respect thereto and adapted to engage the supporting surface for the object at one side of the object, a flexible member connected with the board adjacent to the said first named means and adapted to extend longitudinally of the same to a connection with the supporting surface at the opposite side of the body, and a bearing block having guided movement on the board for engagement by the flexible member at the opposite end of the board from the connection, the flexible member being adjustable in length.

6. A device of the character specified comprising a fulcrum board adapted to extend transversely of the object to be secured in place, means connected with one end of the board and adjustable with respect thereto and adapted to engage the supporting surface for the object at one side of the object, a flexible member connected with the board adjacent to the said first named means and adapted to extend longitudinally of the same to a connection with the supporting

surface at the opposite side of the body, and a bearing block for the said member adjustably connected with the board.

7. A device of the character specified, comprising a fulcrum board adapted to be arranged transversely of the object to be anchored, means connected with one end of the board for anchoring the object at one side thereof, a flexible member connected with the board adjacent to the connection of the first named means, and extending longitudinally of the board for securing the object at the opposite side, and a bearing block adjustable on the board for engagement by such flexible member.

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Witnesses:

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W. RAYMOND SAMMEL.