

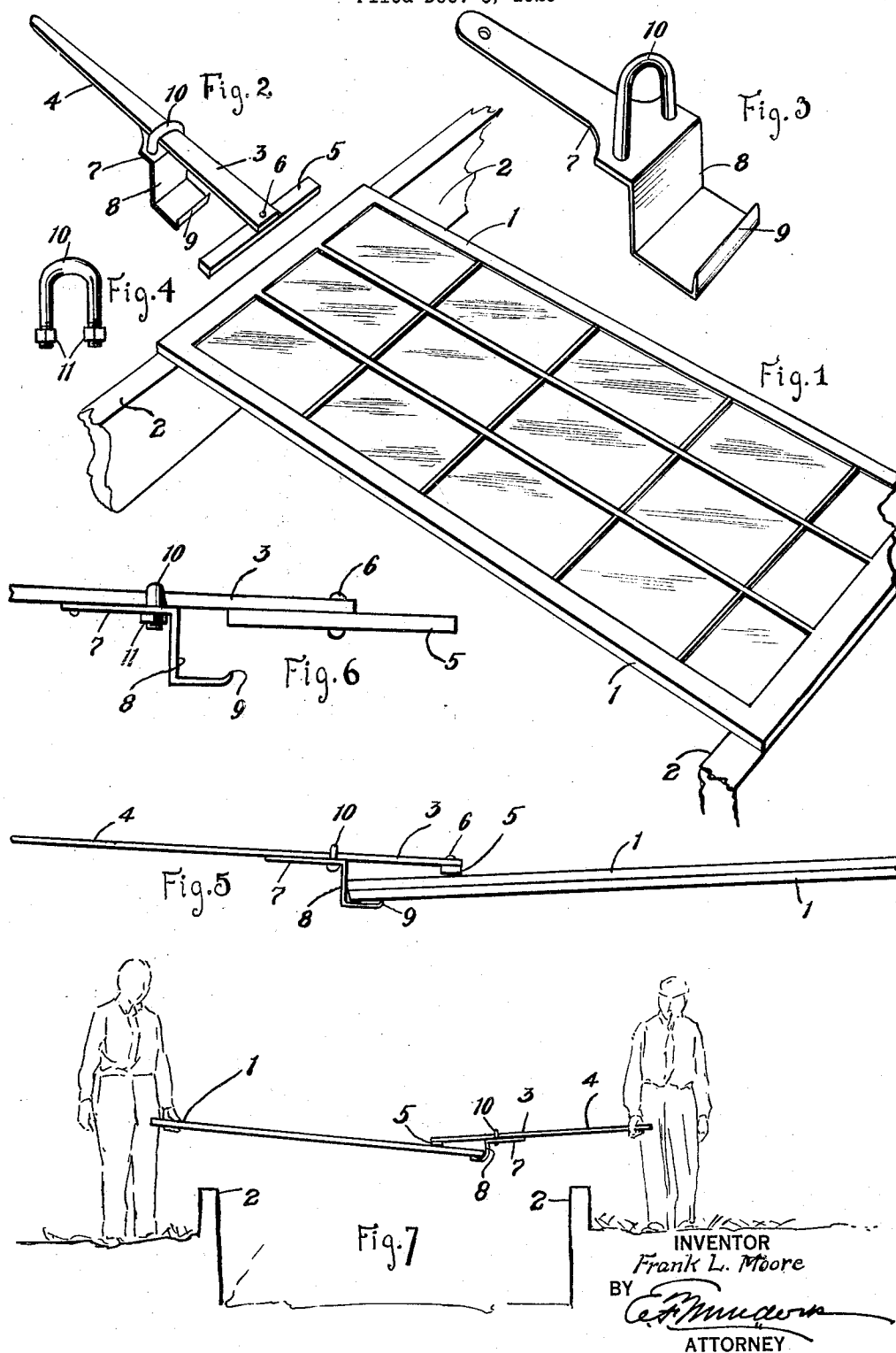
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CARRYING DEVICE

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CARRYING DEVICE

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This invention relates to carrying devices, more particularly to a device for removing and carrying sashes from hot-beds, such as are commonly used by florists and gardeners for preserving flowers and the like.

Among the principal objects which the present invention has in view are: to provide means for securely gripping the ends of sashes; to provide means whereby the gripping means may be adjusted on an elongated handle; to provide a handle which will be long enough so as to afford sufficient space to permit carrying the sash; to secure simplicity of construction; and to obtain other advantages and results as may be brought out in the following description.

In the drawings:

Figure 1 is a perspective view of a sash and resting on two cross beams to represent a hot-bed.

Figure 2 is a perspective view of a carrying device.

Figure 3 is an enlarged perspective view of a hook, and removed from the carrying device.

Figure 4 is a front view of a shackle belt which holds the hook to the handle.

Figure 5 is a side elevation of the carrying device holding two sashes.

Figure 6 is a side elevation of the carrying device with the crossbar in the same plane of the handle, and

Figure 7 is a diagrammatic view showing two men holding a sash.

Description

It is a known fact that hot-beds such as are used by gardeners and florists are usually covered by glass sashes, these sashes being of a standard size and weight and are commonly used to keep the warmth from the sun underneath to preserve flowers, and the like, also, to keep the frost and rain from entering. However, during mild weather the sashes are removed from the hot-beds, and it invariably requires two men to remove each sash, as well as causing considerable inconvenience. Therefore, in order to eliminate this inconvenience, I have provided a carrying device which will aid materially in not only lifting

the sash from the hot-bed, but also permit carrying more than one sash at a time.

In the specific embodiment of the invention illustrated in said drawing, the reference numeral 1, indicates a sash in general, said sash being shown in Fig. 1, in place upon two supports 2, 2, which are shown parallel and spaced apart substantially the length of the sash. In this showing the supports 2, 2, represent the side walls of a hot-bed such as is used by gardeners and florists to keep flowers and the like free from inclement weather and to keep the plants warm.

In order to conveniently remove the sash 1 from the hot-bed, I have provided a carrying device 3. Said carrying device is intended to be used, not only for lifting the sash as shown in Fig. 7, but may be likewise used to carry any number at a time without much exertion or effort.

The carrying device 3 preferably provides an elongated member, tapering towards one end so as to constitute a handle 4 readily accessible for gripping. This elongated member may be constructed of wood although any other durable material may be used as found expedient or desirable.

Adjacent the other end of said member or end opposite to the handle, is attached a cross-bar 5. This cross-bar may likewise be constructed of wood or other suitable material and of adequate length and shape to engage the top of the sash and lie flatwise across two or more of the muntings, so as not to come in contact with the glass within the muntings. In this instance the cross-bar is adjustable on the handle, and means are provided whereby the cross-bar may be brought into substantial alignment with the handle. As one such means, a bolt 6 is shown which is inserted through the handle 4 and the cross-bar 5 holding the same flatwise together with sufficient frictional engagement to prevent the cross-bar turning inadvertently and slipping from engagement with the top of the sash 1. For packing and shipping purposes the cross-bar is turned to be in substantial alignment with the handle.

Between the handle 4 and the cross-bar 5,

is a depending hook 7, preferably constructed of metal, said hook having a shape such that it will firmly engage the bottom of the sash. Said hook is shown carried by the handle 4 toward the end having the cross-bar 5, but is preferably adjustable on said member to meet the requirements of the sash. One means for holding and adjusting the hook on the handle may be in the form of a yoke or shackle 10, said shackle resting on the top of the handle member and passing through the hook, and being held tightly in place by nuts 11. These nuts 11 may be left loose enough to permit sliding the hook on the handle in either direction or may be tightened to retain the hook in any desired position. One portion of the hook 7 rests against the underside of the handle member then extends down transversely, thereby forming a stop or neck 8 against which the end of the sash has a definite stop. The bottom of the neck is then bent in a horizontal or flatwise position, and the end thereof is slightly bent up so as to form a lip 9.

In use the hook 7 is inserted under one edge of the sash 1, and the elongated member 3 held in a position so as to permit said hook to firmly grip the framework of the sash. The elongated member is then extended forward sliding under the saddle bolt, so that the cross-bar 5 attached thereto will come in position to lie flatwise across the first set of cross mountings on the sash. The elongated member may be then raised to an upward position, and in doing so, the device will act as a first class lever.

Heretofore, it has been the practice for two men to remove the sash from the hot-bed, and as the sash is substantially the same length of the hot-bed, it necessarily requires the men to bend downwardly to grip the underside of the sash. Upon removing the sash, the men are invariably pulled towards each other, thereby causing inconvenience and hardship. However, by inserting the carrying device to the sash, additional space is permitted for the men to lift the sash and carry it away.

Claim:

In a device as characterized, a carrying device having an elongated member, said member having a hook thereon, said hook providing an upwardly projecting lip for engaging the bottom of a sash, a shackle bolt holding the hook on the member, and a cross-bar on the member to engage the top of the sash.

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