O. C. COX.

DETACHABLE DRAIN BOARD FOR SINKS.

APPLICATION FILED JAN. 8, 1918.

**1,287,894.**

Patented Dec. 17, 1918.

2 SHEETS—SHEET 1.

*Fig. 1.*

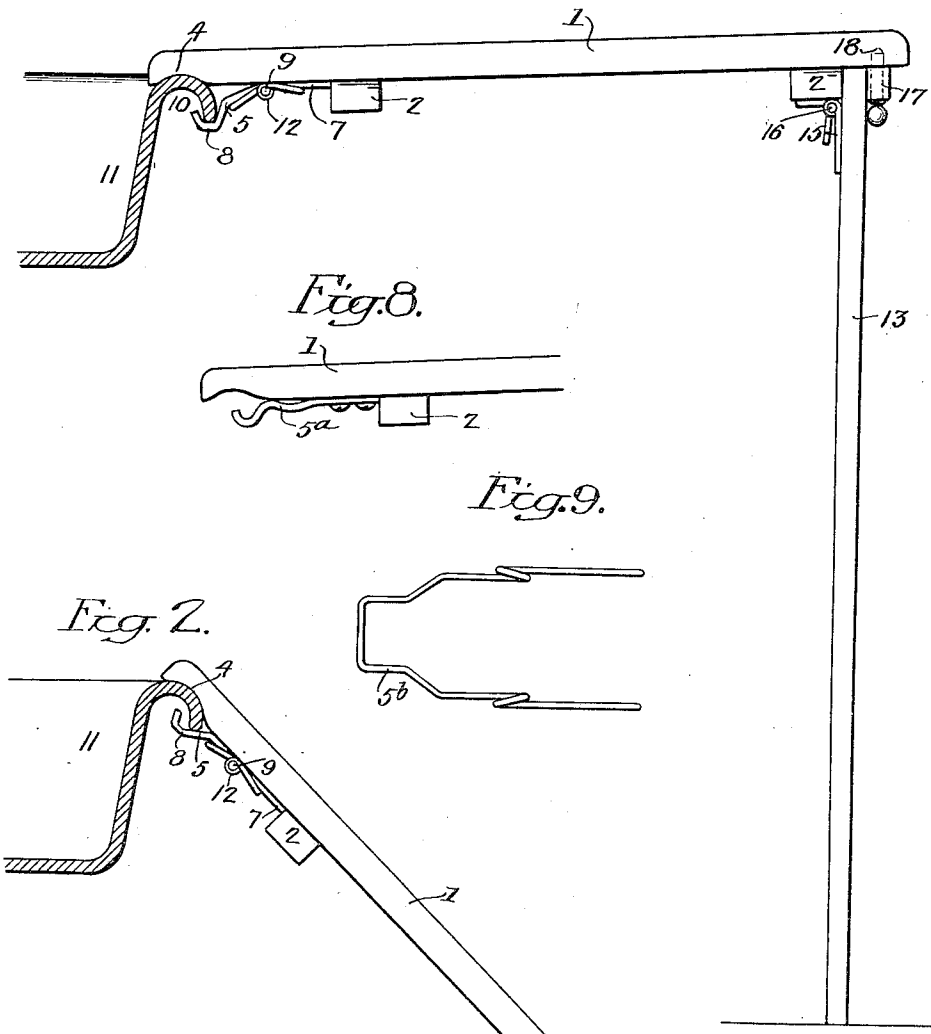



*Fig. 8.*




*Fig. 9.*




*Fig. 2.*




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2 SHEETS—SHEET 2.

Fig. 3.

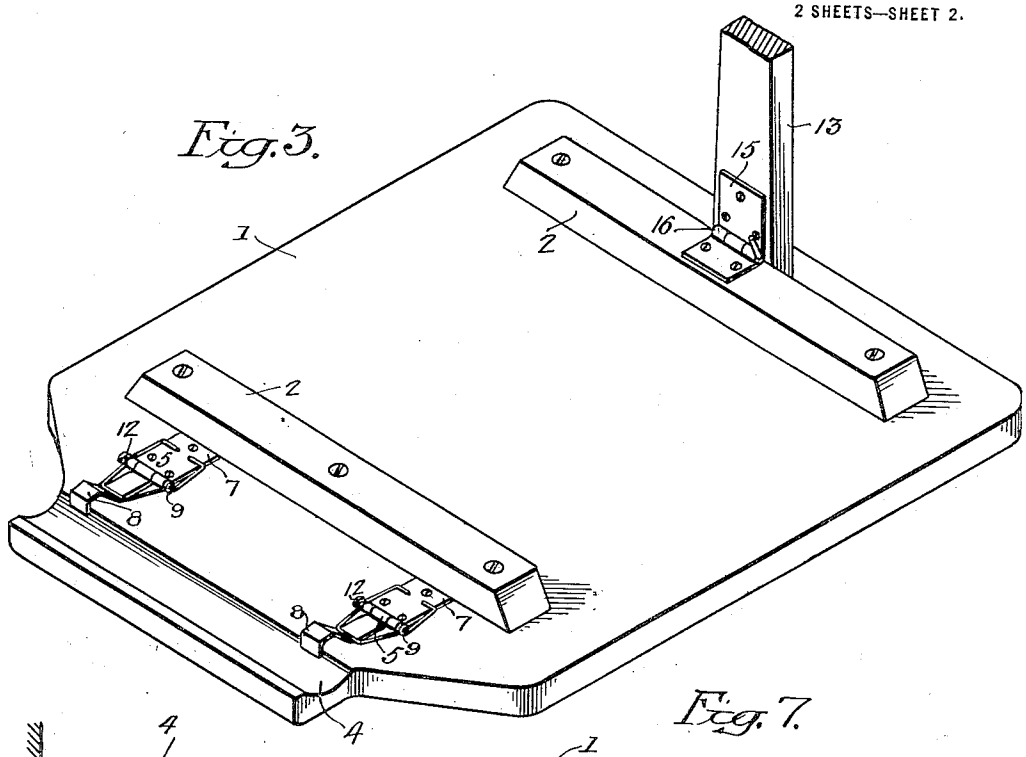



Fig. 7.

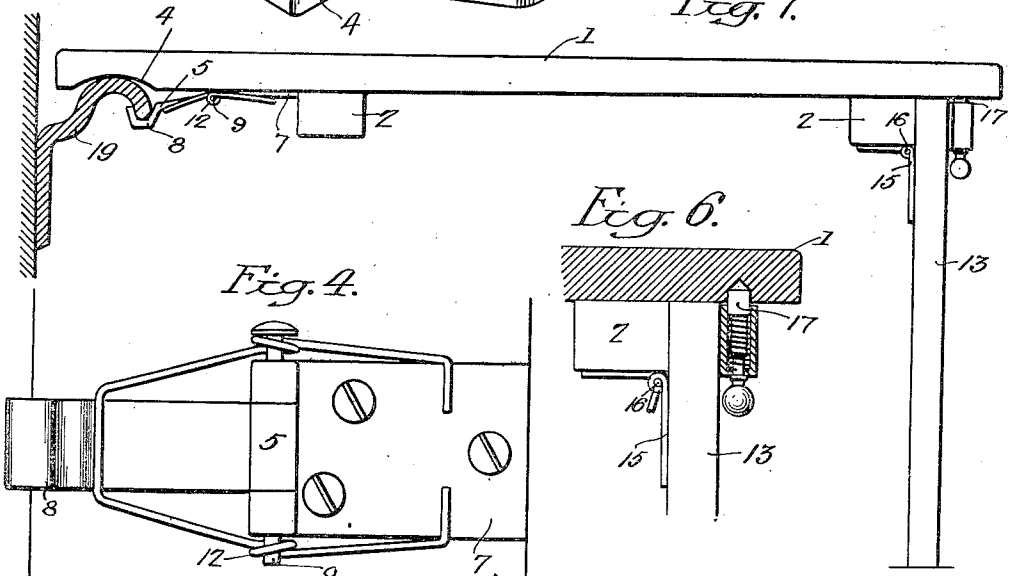



Fig. 6.




Fig. 4.




Fig. 5.




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# UNITED STATES PATENT OFFICE.

ORA C. COX, OF PHILADELPHIA, PENNSYLVANIA.

## DETACHABLE DRAIN-BOARD FOR SINKS.

1,287,894. Specification of Letters Patent. Patented Dec. 17, 1918.

Application filed January 8, 1918. Serial No. 210,920.

*To all whom it may concern:*

Be it known that I, ORA C. COX, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Detachable Drain-Boards for Sinks, of which the following is a specification.

The object of my invention is to construct a detachable drain board or table which can be readily applied to a fixed object and which, when in place, is rigidly attached without utilizing manually operated clamping means.

The invention is particularly adapted for use as a detachable drain board for sinks, but it will be understood that it can be used as a detachable table, or ironing board, arranged to be secured to a wall or to a table, or desk, for the purpose of increasing the surface area.

In the accompanying drawings:

Figure 1 is a side view of my improved drain board showing it in position in connection with a sink;

Fig. 2 is a view, similar to Fig. 1, showing the method of applying the board to a sink;

Fig. 3 is an inverted perspective view of the drain board;

Fig. 4 is an inverted plan view of one of the spring clamps;

Fig. 5 is a side view of one of the spring clamps;

Fig. 6 is a sectional view of the hinged leg and spring bolt;

Fig. 7 is a view showing my improved device as a table; and

Figs. 8 and 9 are views of modifications of the clamp.

Referring to Figs. 1 to 3 inclusive, 1 is a drain board, which may be of any shape desired and of any material, having, in the present instance, cleats 2, and in the underside of the board at the front edge is a rounded transverse groove 4. 5, 5 are spring clamps spaced a given distance apart and each of these spring clamps consists of a leaf 7 rigidly secured, by screws or other means, to the board and a leaf 8 pivotally connected to the leaf 7 by a pin 9. The outer end of the leaf 8 is shaped as clearly shown in Figs. 4 and 5, so as to form a hook which is arranged to engage the rolled edge 10 of a sink 11, a portion of which is shown in Figs. 1 and 2.

Sinks are usually made with a rolled edge, as shown, and the groove in the underside of the board is shaped to accommodate this edge. The hook is so proportioned that it will engage the lower edge of the roll, as shown in Figs. 1 and 2.

A spring 12 is coiled around the pivot pin of the clamp and one end of the spring rests upon the fixed leaf 7 and the other end of the spring rests upon the hooked leaf 8, so that the tendency of the spring is to force the hooked leaf toward the board. The spring is of such strength that when the hook is clamped to the edge of the sink it will rigidly hold the board in position.

The board can be readily applied to the sink when in the position shown in Fig. 2, with the hooked end of the clamp extending under the rolled edge, then, by raising the outer edge of the board to its normal position, the springs will yield and the clamps will press upon the edge of the sink, holding the board firmly against the upper edge of the sink. Any suitable leg or support for the outer end of the board can be used and when the board is in the position illustrated in Fig. 1, it is rigidly attached to the sink.

I preferably use a single leg 13, which is connected to the board by a hinge 15. The pintle 16 of the hinge is removable so that, on withdrawing the pintle, the leg can be separated from the table, if desired, in packing or shipping.

In order to hold the leg in its extended position, I attach a spring bolt 17 to the leg. The bolt is arranged to enter a hole 18 in the table when the leg is in its extended position, as illustrated in Fig. 1. By withdrawing the bolt, the leg can be turned on its hinge and the outer end of the board lowered, after which it can be readily removed from the sink.

In Fig. 7, I have illustrated my device used as a table, and instead of being attached to the edge of the sink, a plate 19 is used, which is secured to the wall or to the edge of the table. The clamps engage the extended portion of this plate.

In some instances, a groove may be formed on the underside of a table top, so as to accommodate the clamps, but I prefer the construction illustrated in Fig. 7.

In Fig. 8, I have illustrated a modification in which the clamp is made of spring

metal and is so shaped that the hooked end of the clamp is directly above the groove in the end of the board and a sufficient distance from the board to enable the user to hook the board onto the edge of a sink with the clamp $5^a$ engaging the down turned edge of the sink so that when the board is raised the hook will automatically engage the rolled edge of the sink and will yield so as to place sufficient tension on the board to hold it firmly onto the rolled portion of the sink.

In Fig. 9, I have shown the clamp $5^b$ made of spring wire, the two arms of the clamp being coiled to form the spring and the ends of the arms beyond the springs can be attached to the board by staples, or other fastenings.

It will be understood that the clamp may be made in many different ways, but in every instance the end of the hook must be located in such relation to the groove in the under side of the board that it will be a sufficient distance from the base of the groove so as to allow the edge of the sink to enter the space between the base of the groove and the hook, as shown clearly in Fig. 2, so that when the board is moved to the position shown in Fig. 1 the hook will firmly engage the edge of the sink and will force the grooved portion of the board firmly onto the upper surface of the rolled edge of the sink so that it will be seated firmly thereon and cannot move laterally. The leg is used as a means for holding the outer end of the board in the raised position and the hooked clamps between the groove and the board are depended upon to hold the board rigidly against lateral movement.

I preferably make the leg tapered and comparatively small at its lower end, so that when the board is sold the leg is of such a length to support the board when the board is attached to an extremely high sink. If it is to be applied to a low sink, then the leg is cut off to accommodate the sink.

I claim:

1. The combination of a detachable board; a transverse groove in the under side of the board and at one end thereof shaped to fit a support; a spring clamp at the same edge of the board as the groove, the clamp having a hook at its free end directly beneath the groove, the end of the hook being spaced from the groove when in its normal position so as to allow for the insertion of the rolled edge of a support between the hook and the groove in the board, when the board is at an angle below the horizontal, the hooked clamp yielding when the board is raised into position; and a hinged support for the outer end of the board.

2. The combination in a detachable board for sinks, of a board having a transverse groove on its under side near one edge, the groove being rounded to fit the rolled edge of a sink; a spring clamp secured to the under side of the board consisting of a leaf rigidly secured to the board and a hooked leaf pivotally connected to the first mentioned leaf; a spring coiled around the pivot point of the clamp, one end of the spring bearing against the hooked leaf and tending to force it against the board, the hook being directly beneath the groove in the under side of the board, the end of the hook being spaced from the groove when in its normal position so as to allow it to engage the rolled edge of a sink when the board is applied at an angle to the sink so that on raising the board the grooved portion of the board will be drawn tightly onto the rolled edge of a sink; and a pivoted leg at the outer end of the board arranged to support said end independently.

In witness whereof I affix my signature.

ORA C. COX.