Sept. 18, 1934. E. L. GOLBERG 1,973,952

COLLAPSIBLE KENNEL

Filed March 29, 1933

FIG. 1.

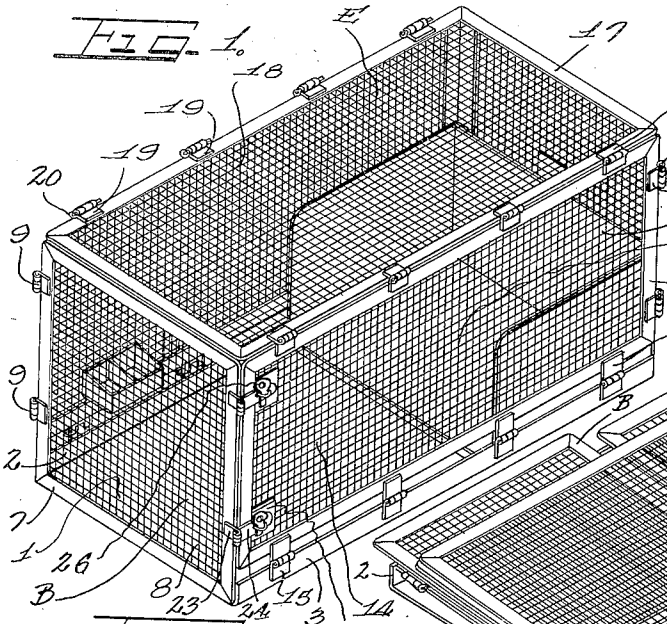


FIG. 2.

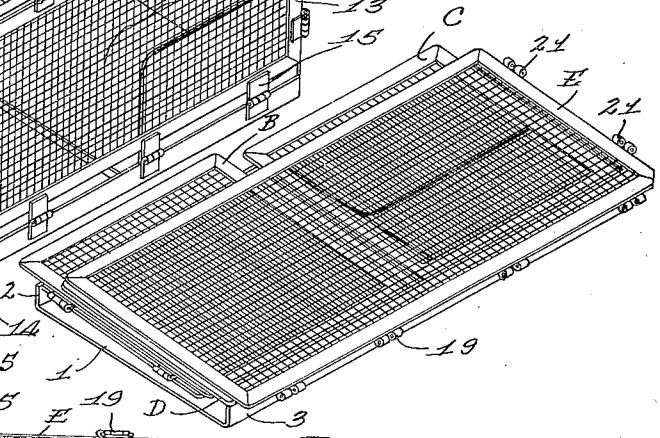


FIG. 3.

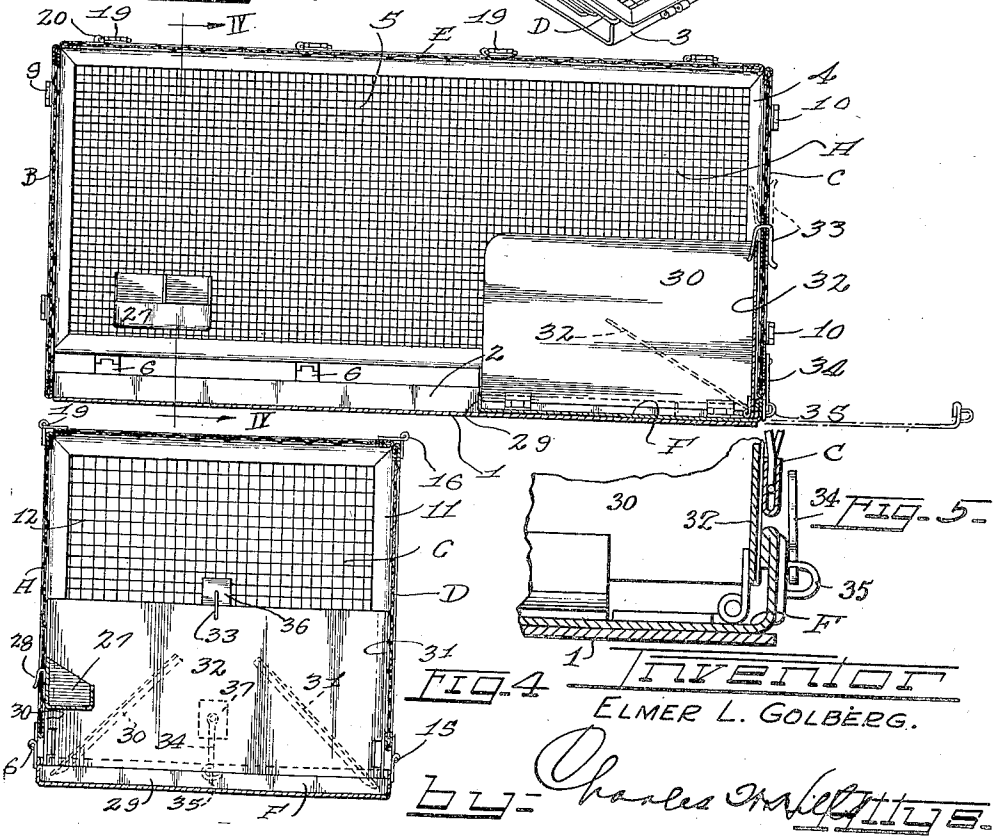


FIG. 5.

FIG. 4.

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COLLAPSIBLE KENNEL

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2 Claims. (Cl. 119—17)

The present invention relates to improvements in collapsible kennels or shipping kennels or crates for small animals, such as dogs, and more particularly to kennels that are collapsible for convenience in storage and shipment while empty.

An object of the present invention is to provide a collapsible kennel for dogs.

An object of the present invention is to provide a collapsible kennel for dogs, or other small animals, which is of simple and strong construction, which may be quickly and easily collapsed or extended, and in which are embodied means to maintain the kennel in clean and sanitary condition for continued use.

Another object of the invention is to provide a simple and efficient kennel which may be quickly set up for use or collapsed for storage or shipment when empty.

A further object of the invention is to provide a collapsible kennel for shipment of animals, which is, in the main, constructed of mesh or screen material and so arranged as to be quickly set up for use or quickly collapsed, and when set up is maintained in such condition to provide a strong and rigid device capable of withstanding rough treatment in shipment, without consequent damage.

A still further object of the invention is to provide a collapsible shipping kennel for dogs and small animals, fashioned, in the main, of screen or mesh material, which is collapsible for storage, and which is provided with a collapsible sand box so constructed that, when the kennel is set up, the escape of the box contents is prevented.

Generally speaking, the invention contemplates a collapsible kennel having imperforate bottom, and sides, ends and top of mesh or screen material, hingedly connected together in such manner as to enable rapid setting up of the kennel for use, and as rapid collapse for storage.

The invention contemplates, also, a collapsible sand box removably retained with the kennel and which box may be removed from time to time for cleaning, and which box is collapsible when the kennel is collapsed, remaining within the kennel when so collapsed.

An embodiment of the present invention is illustrated in the accompanying drawing, and the views thereof are as follows:

Fig. 1 is a perspective view of a collapsible kennel, in set up position, embodying principles of the present invention;

Fig. 2 is a perspective view of the kennel of Fig. 1 shown in collapsed or knocked-down condition;

Figure 3 is a vertical longitudinal section through the set-up kennel of Fig. 1;

Figure 4 is a vertical sectional view taken substantially in the plane of line IV—IV of Fig. 3.

The drawing will now be explained.

The form of collapsible kennel chosen to exemplify the present invention is illustrated as comprising an imperforate bottom 1 having side flanges 2 and 3, which are formed by turning up the margins of the blank from which the bottom is made. The illustrated kennel is rectangular in shape, consequently the bottom 1 is rectangular in plan.

Hingedly secured to the flange 2 of the bottom, is a side section, designated generally at A, which is constructed with a rectangular frame 4 supporting mesh or screen material 5. The side section A is secured to the flange 2 of the bottom by hinges 6 so arranged that the pins thereof are permanently associated with the hinges.

Hingedly connected to what is herein referred to for convenience as the front margin of the side section A, is an end door or section, designated generally at B, which door or section comprises a marginal frame 7 supporting mesh or screen material 8. The end door or section B is hingedly secured to the side section A by hinges 9 in which the pins are permanently secured.

Hingedly attached to the rear end of the side section A is another end door or section, designated generally at C secured to the side section A by hinges 10, the pins of which are permanently secured in position. The end door or section C has a marginal frame 11 supporting screen or mesh material 12.

Hingedly secured to the flange 3 of the bottom 1 is a second side section, designated generally at D and, like the other sections, includes a marginal frame 13 supporting screen material 14. The side section D is permanently hinged, by hinges 15 to the flange 3 of the bottom 1.

Permanently hinged to the side section D, as by hinges 16 is a top section, designated generally as E, which, like the other sections, includes a marginal frame 17 and screen or mesh material 18. The pins of the hinges 16 are permanently secured in the hinges.

For connecting the top E to the side section A, to maintain the kennel in set-up or erected position, hinges 19 are secured to the adjacent margin of the frames of the top E and the side section A, with hinge leaves securely fastened to the

adjacent margins of these sections. These hinges are so constructed that the leaves thereof secured to the top section E may be removed from engagement with the leaves secured to the side section A. This, in the illustrated form of the invention, is accomplished by providing removable pins or cotters 20 engaging the pintles of the hinge leaves constituting the hinges 19.

In like manner the rear door is removably secured to the side section D by similar hinges 21, having certain leaves thereof secured to the side section D and other leaves secured to the adjacent margin of the end door C, with removable pins or cotters 22 inserted in the pintles of these hinges.

The front door or end wall B is illustrated as locked to the side section D by means of hasps 23, secured to the adjacent margin of the frame 7 of the end wall B and with the leaves 24 engaging locking members 25 suitably fastened in convenient position to the side section D. Padlocks or other locking means, indicated at 26, may be employed for locking the end door B with the side section D, and thus lock the kennel in set-up position.

For containing a supply of food and water for the animal within the kennel, a manger 27 may be removably supported on one of the side sections as by hooks 28 engaging through the mesh or screen material of the side sections.

For collecting the excreta there is provided a sand box, designated generally at F, and comprising an imperforate bottom, preferably of metal, with flanges 29 about its four sides, as illustrated. The sand box F is arranged to be disposed in one end of the kennel and supplied with sand. The flanges 29 of the box F are so constructed as to stop short of the upper extremities of the flanges 2 and 3 of the bottom 1 of the kennel.

In order to prevent escape of the contents of the sand box F there are provided imperforate side members 30 and 31 and an end member 32. These members 30, 31 and 32 are hingedly connected to the box F so as to be folded within the height of the flanges 29 of the box, when collapsed, and to be extended in upright position for use when the kennel is set up. When the kennel is set up, the side members 30, 31 of the sand box are raised to lie against the inner surfaces of the sides A and D of the kennel, and the end member 32 is raised to lie against the surface of the adjacent end door C. The section 32 maintains the side sections 30 and 31 in erect position, as it engages against the inner surfaces of these sections when raised. For maintaining the end sections 32 in erect position, a hook 33 is applied to the end door C and is adapted to hook over the upper edge of the end member 32 of the box when this member is raised.

For preventing movement of the sand box within the kennel, a hook 34 is suitably attached to the end door C for engaging a ring 35, or similar instrumentality, attached to the sand box F in convenient position.

Preferably, although not necessarily, the lower margin of the end door C is arranged to terminate a slight distance above the adjacent flange 29 of the box, so that, if it is necessary to remove the box for cleaning purposes, this may be done by disengaging the hooks 33 and 34, collapsing the side members 30 and 31 and the end member 32, and withdrawing the sand box F out from the kennel underneath the rear end door C, whereupon the box may have its contents replenished and cleaned if necessary, and then replaced by sliding it under the rear door C.

The hooks 33 and 34 are suitably secured to the rear door C as by plates 36 and 37 respectively.

It will be observed, that by provision of the space below the lower extremity of the end door C, the sand box F may be removed from and inserted in the kennel without having to let out the dog or open a door to the kennel. The securement of the pan F adjacent the end door C, by means of the hook 34, serves to close the space by the pan or box when the latter is in position within the kennel.

Kennels of the present invention are especially adaptable for caring for dogs, or other pets, in hotels and apartment houses. The kennels are made in various sizes and may be finished in any desired manner. The kennels when not in use may be folded and stored or when desired for use, may be quickly set up in any convenient place. Such kennels, when used in hotels and apartment houses solve the problem attendant on the keeping of pets in such places as it provides closures or cages for such pets which may be quickly set up or as quickly collapsed and which because of the novel sand box arrangement may be kept at all times in a clean and sanitary condition.

Bedding, such as a mattress, blanket, or other suitable material, may be placed on the bottom 1 of the kennel ahead of the sand box F.

The leaves or members 30, 31 and 32 extend upwardly within the kennel, when extended, a sufficient distance to prevent escape of excreta through the screen sides of the kennel.

The illustrated kennel is shown in Fig. 2 in collapsed position. When it is desired to set up the kennel the side sections A and B are moved to substantially vertical positions and the top E connected to the side section A by inserting the pins or cotters 20 in the leaves constituting the hinges 19. The leaves 30, 31 and 32 of the sand box are then raised to the position shown in Figs. 1, 3 and 4 and secured in raised position by engaging the hook 33 with the end leaf 32. The rear door or end section C is then secured in closed position by inserting the pins or cotters 22 in the leaves constituting the hinges 21. The dog or other animal may then be placed within the kennel through the opening formed by the front end wall or door B and this door then closed and locked in the manner heretofore described.

Whenever it is necessary to remove the sand box F from the kennel, for cleaning or other purposes, the hook 33 is disengaged from the end leaf 32, this leaf then folded downwardly whereupon the side leaves 30 and 31 may be folded, all the leaves being thus folded in overlying position with respect to the box. The hook 34 is then disengaged from its locking connection with the sand box, and the box then withdrawn through the space beneath the lower margin of the rear door or section C. The box may be cleaned and contents replenished with fresh sand and it again inserted through this space into the kennel. When so inserted it is locked by engagement of the hook 34 with the ring 35, the side sections may be raised and locked in upstanding position by engagement of the hook 33 with the end wall or leaf 32. It will be observed that the sand box may be removed from and applied to the kennel without having to open a door thereof and thus allowing escape of the contained animal.

The leaves 30, 31 and 32 of the sand box fold within the compass of the flanges of this box, so that when the kennel is collapsed the box may be

collapsed within the kennel and therein contained at all times.

When it is desired to collapse the kennel, the pins or pintles 22 are removed from the leaves constituting the hinges 21, the rear door or section C then swung away from closed position, the front door B is unlocked and swung away from closed position, the pins or pintles 20 of the leaves constituting the hinges 19 are then removed and the top E folded flatwise against the side section D. The leaves 30, 31 and 32 of the sand box are collapsed and the end doors B and D are then folded against the outer surface of the side section A. This section is then folded in overlying position with respect to the bottom 1, and the other side section with the top E is then folded atop the side section A.

The invention has been described herein more or less precisely as to details, yet it is to be understood that the invention is not to be limited thereby, as changes may be made in the arrangement and proportion of parts, and equivalents may be substituted, without departing from the spirit and scope of the invention.

The invention is claimed as follows:

1. A collapsible kennel having hingedly connected top and bottom members and side and end walls, and an excreta pan slidable into and out of said kennel, one of said hinged walls stopping short of the bottom member to provide an opening through which said pan may be removed and inserted without having to open the kennel, said shortened wall and said pan having hook means for securing said pan against displacement in said kennel and in position for closing said opening.

2. A collapsible kennel for an animal comprising an imperforate bottom, and sides, ends, and top of mesh or screen material; said sides being hinged to said bottom, said ends being hingedly connected to said sides, and said top being hingedly connected to said sides; one of said end members stopping short of the bottom to provide a space between said bottom and the adjacent margin of said end member; and a removable sand box insertable through said space and adapted to close said space when inserted in said kennel; said box and said short end member having cooperating locking means for preventing dislodgment of the box with respect to said space and for securing said box in position for closing said space or opening.

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