May 5, 1953 F. H. RICHTERKESSING 2,637,192

SPOTTING BOARD

Filed April 3, 1947 2 SHEETS—SHEET 1

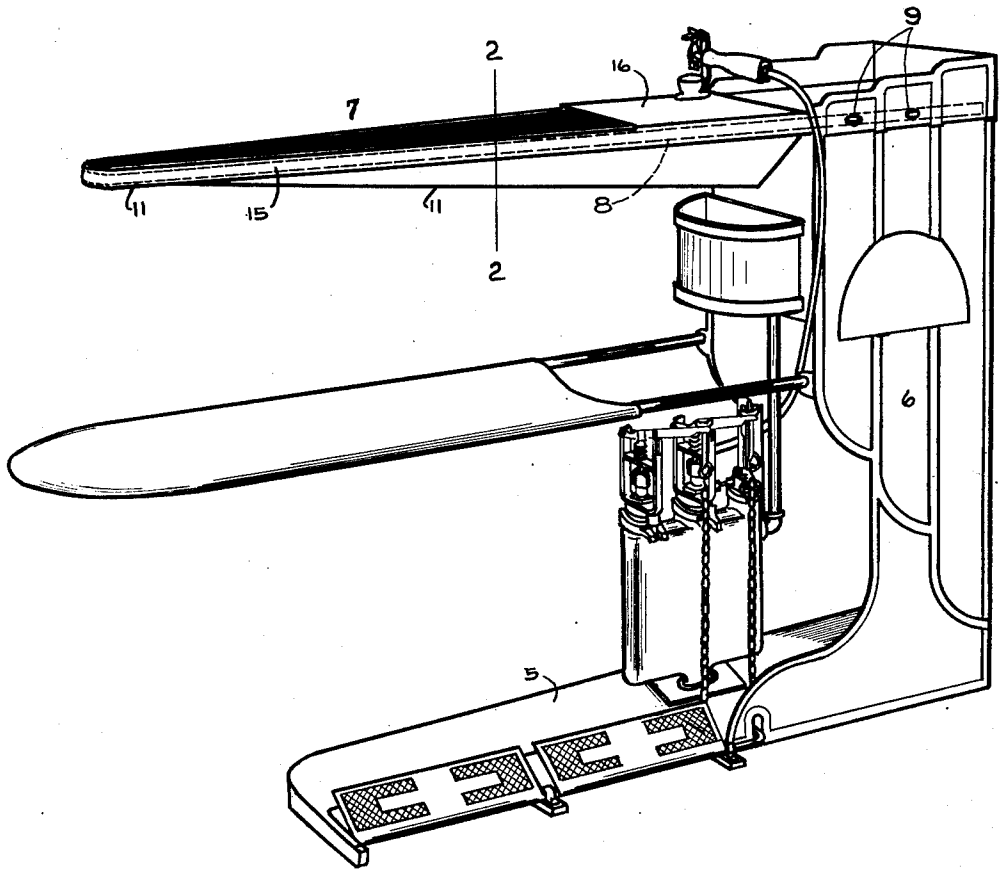

Fig 1

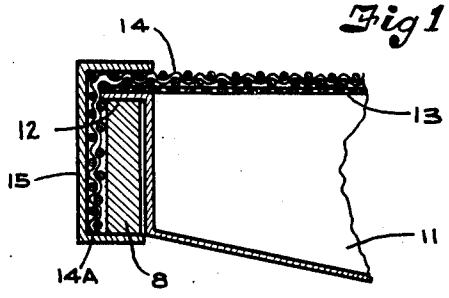

Fig 2

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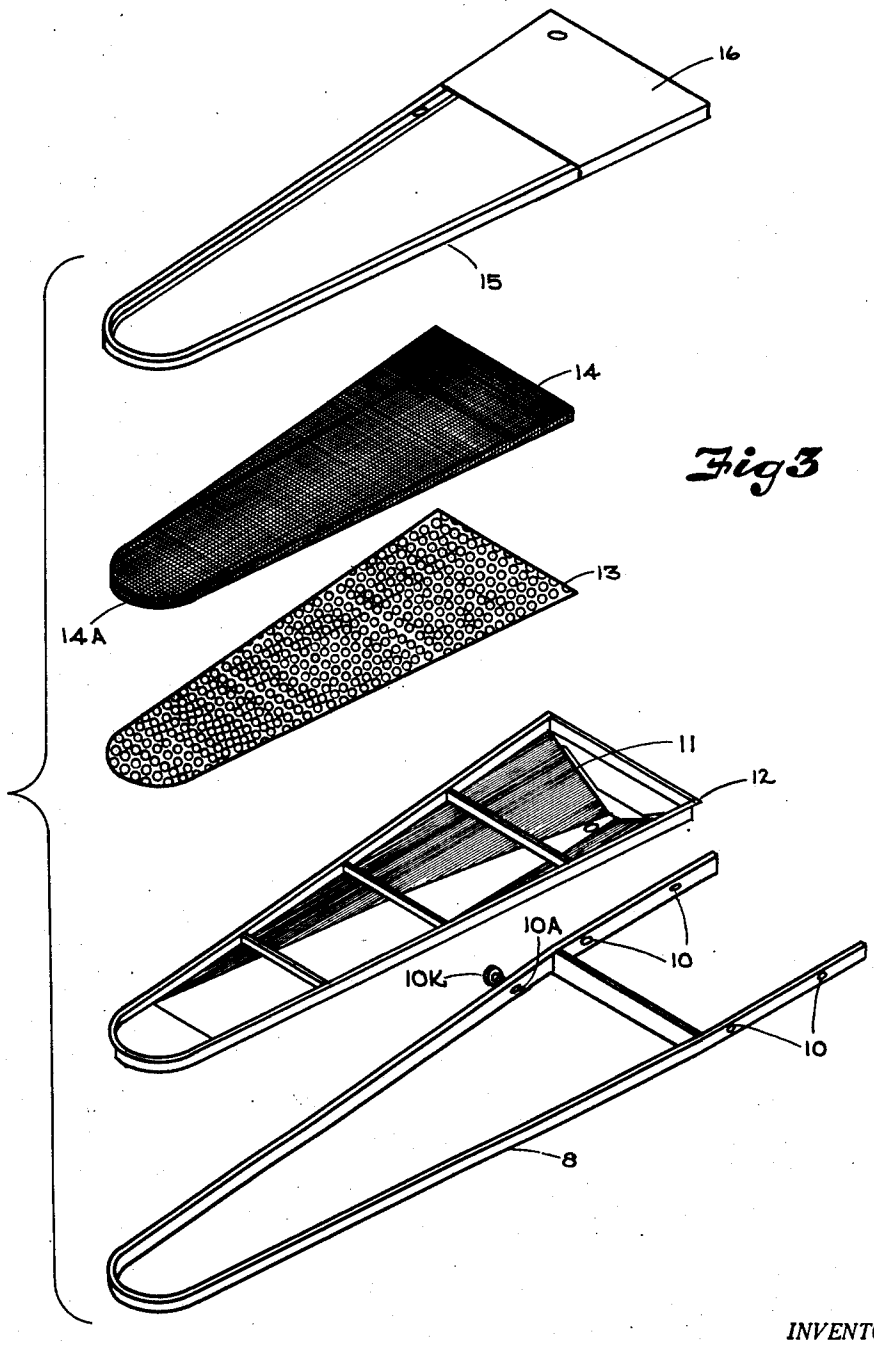

Fig 3

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UNITED STATES PATENT OFFICE

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SPOTTING BOARD

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Application April 3, 1947, Serial No. 739,245

5 Claims. (Cl. 68—240)

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This invention relates to improvements in dry cleaning apparatus known as "spotting boards" and has reference to spotting boards that are ordinarily employed in the removal of wrinkles, stains and other foreign matter from fabrics, garments and the like.

An object of this invention is to provide an improved construction for the hollow chamber sometimes referred to as a trough, table or board, on which the objects under treatment are placed and which serves as a duct for vapors, heat, hot air, cool air, dry steam, a combination of heat, hot air and either wet or dry steam or a sequence of these forces.

Another object of this invention is to provide component elements of the hollow chamber that enables the spotting board operator to assemble expeditiously the said elements for operation and likewise to disassemble same completely for cleaning and/or repairing.

Another object of this invention is to provide each of the component elements of the hollow chamber of a type and form that enables the manufacturer thereof to produce them expeditiously from the more enduring types of materials such as stainless steel.

A preferred embodiment of the invention is shown in the accompanying drawings, in which:

Figure 1 is a perspective of a complete commercial "spotting" apparatus embodying my invention;

Figure 2 is a partial section along line 2—2 of Figure 1;

Figure 3 shows, in perspective, the parts of my spotting board or trough disassembled for sake of clarity.

Referring to the drawing and more particularly to Figure 1, numeral 5 designates a base and 6 a column to which is attached a trough designated generally by numeral 7.

Since the functions of the several elements or units of spotting apparatus that constitute a complete spotting board of the type shown herewith are well understood, a full detailed description of every element shown in Figure 1 is not regarded as necessary.

As adverted to in the preamble, the simplified construction of this trough, shown in detail in Figure 3, constitutes an object of the incident invention. To improve the rigidity of and accessibility to the parts of this trough, a rigid perimetrical frame 8 is provided and secured to the column by bolts 9—9 that pass through holes 10—10 of the ends of the frame.

The frame is preferably formed from rectangular stainless steel stock as best shown in Figure 2. Depending pan 11 is formed with a perimetrical flange 12 having the margin cut to correspond to the vertical outline of the frame. Perforated sheet of relatively heavy material is also cut to register with said vertical outline of the frame while screen 14, preferably woven from fine monel wires, is formed with a depending flange 14A to embrace frame 8 as shown in Figures 2 and 3. Thus it will be perceived that the trough can be assembled for use with both the perforated sheet and the screen or either of same, also that should the operator desire, special types of screens or sheet may be used and facilities for substitution have been provided.

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To align and retain pan 11, perforated sheet 13 and screen 14 in assembled relation for service, channel retaining band 15, preferably formed from stainless steel stock is fashioned to embrace frame 8 as shown in Figure 2, while in Figure 1 it is shown as a sheath for the said elements. As shown in Figure 2, the retaining band 15 has a cross-section of channel form, with its web portion arranged vertically and its two flanges extending horizontally. Also formed integrally with the band is a flat panel 16 to provide a tamping board. While band 15 and frame 8 are fashioned to the same longitudinal taper so as to embrace and secure the assembly into a unit, an auxiliary clamp is provided. This clamp is in the form of a screw knob 10K that is threaded into frame 8 at 10A.

From the foregoing it is obvious that I have described specifically and in detail one embodiment of an apparatus by which my invention, as adverted to at the outset hereof, can be practised, however, it should be noted that the specific terms herein are used descriptively rather than in a limited sense, therefore the scope of this invention is not to be limited other than as specified in the attached claims.

Having thus described my invention, I claim:

1. A trough construction for a spotting board comprising, an open perimetrical U-shaped frame; a pan within the open frame having a marginal flange coextensive with the outer margins of the frame and supported upon the top edges thereof; a perforated cover for the said pan having a margin coextensive with the said flange and supported thereon; a relatively fine mesh screen supported upon the said cover having a depending flange overlying the outer edges of the said frame; and a U-shaped band extending around the closed end and for the full length of both sides of the frame, said band having a

channel section with its web portion arranged vertically and having one horizontal flange engaging over the said screen and the other horizontal flange engaging under the lower edge of the frame for retaining the parts upon the frame.

2. A trough construction for a spotting board comprising an open frame of substantially U-shape embodying relatively angularly disposed linear sides diverging from their interconnected ends, a pan within said frame having a marginal flange coextensive with the outer margins of said frame and supported upon the upper edges thereof, a cover for said pan having a margin coextensive with said flange and supported thereon, and a removable securing band of a U-shape conforming to said frame, the inner edges of said band being channeled and slidably receiving said frame, pan and cover, whereby during application of said band by linear sliding movement onto said frame, the wedge action resulting from the diverging relation of the band sides will automatically position said cover in accurate registry with said pan.

3. A trough construction for a spotting board comprising a pan having laterally projecting marginal flanges coextensive with its opposite sides, said flanges being formed with outwardly presented marginal edges diverging relative to each other from one end of the pan, and a cover for said pan having a margin coextensive with said flanges, in combination with a removable retaining band having relatively diverging channeled portions coextensive with and slidable on said respective flanges and the contiguous marginal portions of said cover, whereby during application of said band by linear sliding movement onto said pan and cover, the wedge action resulting from the diverging relation of said diverging channeled portions will automatically position said pan and cover in accurate registry.

4. A trough construction for a spotting board comprising a pan having relatively diverging linear sides, a perforated cover for said pan having relatively diverging side edges coextensive with and parallel to the respective sides of the pan, and a screen supported and linearly slidable on said cover, said screen having depending flanges adjacent and relatively parallel to the respective sides of the pan, whereby linear sliding movement of said screen and consequent wedging engagement between said flanges and the pan and cover will position and retain the cover in accurate registry with said pan.

5. A trough construction for a spotting board comprising, an open perimetrical frame; a removable pan within the open frame having a marginal flange coextensive with the outer margins of the frame and supported solely by said flange resting upon the top edges of said frame; a cover for the said pan having a margin coextensive with the said flange and supported thereon; and a retaining band extending about the outside of said frame, said band having a channel section with its web portion arranged vertically and its two flanges directed inwardly, one flange engaging over the said cover throughout its length and the other flange engaging under the lower edge of the frame throughout its length for clamping said pan and said cover to the frame.

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