



US00D665683S

(12) **United States Design Patent**  
**Nagai**(10) **Patent No.:** **US D665,683 S**  
(45) **Date of Patent:** **\*\* Aug. 21, 2012**(54) **MEASURING HOPPER FOR COMBINED WEIGHING INSTRUMENT**

- (75) Inventor: **Takayuki Nagai**, Akashi (JP)  
(73) Assignee: **Yamato Scale Co., Ltd.**, Akashi-shi (JP)  
(\*\*) Term: **14 Years**  
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(51) **LOC (9) Cl.** ..... **10-04**  
(52) **U.S. Cl.** ..... **D10/94**  
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D10/88, 89, 90, 93, 94; 53/53; 73/146; 141/1,  
141/83; 177/1, 25.11, 25.12, 25.13, 25.14,  
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177/210 FP; 198/484.1, 533, 566, 601, 803.11;  
194/202, 204; 209/586; 222/1, 56, 504;  
310/20; 324/225; 453/17, 32; 700/219,  
700/305; 702/41, 88, 123, 173; 708/300;  
714/805

See application file for complete search history.

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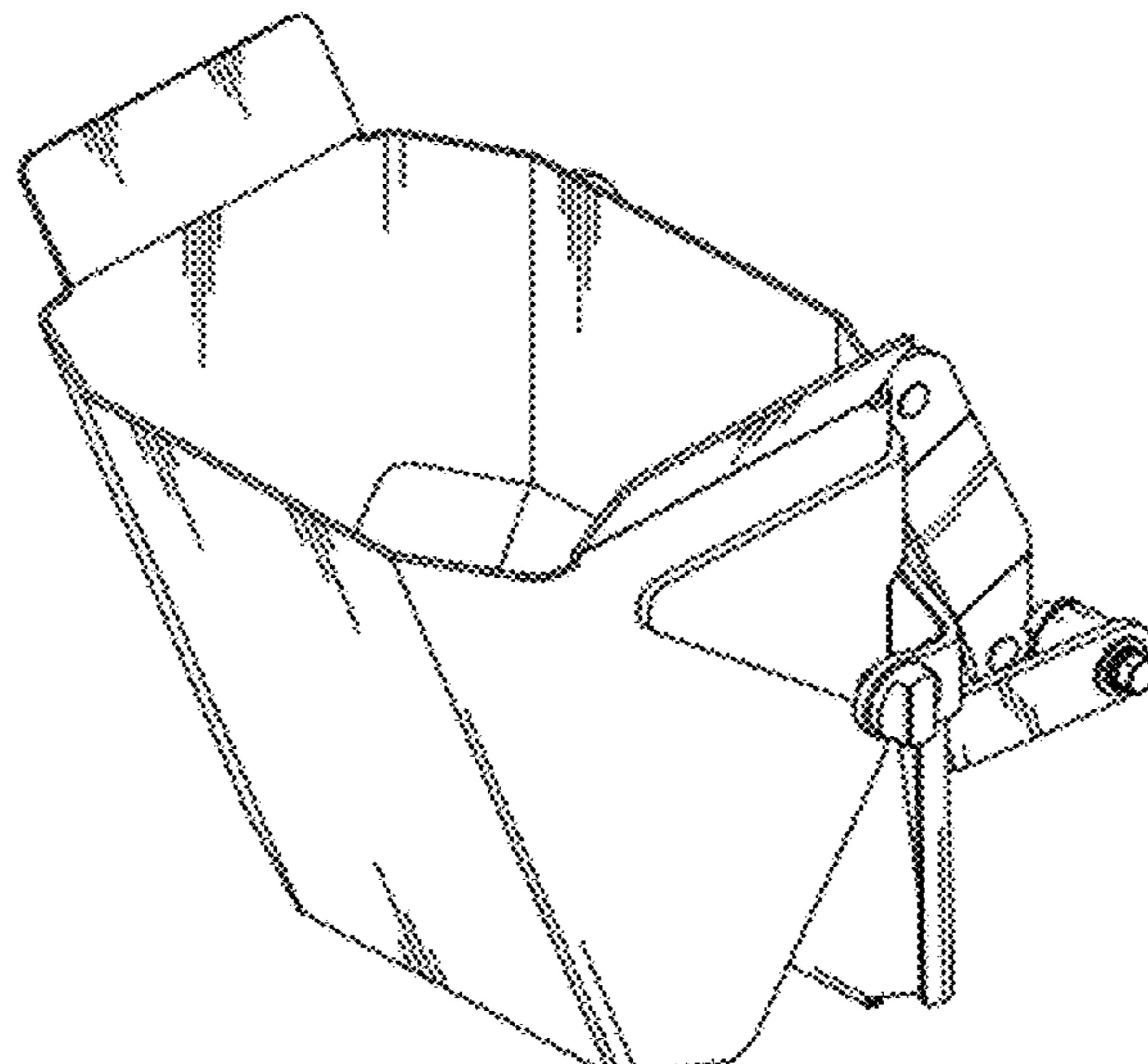
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(Continued)

*Primary Examiner* — Antoine D Davis*(74) Attorney, Agent, or Firm* — Alleman Hall McCoy  
Russell & Tuttle LLP(57) **CLAIM**

The ornamental design for a measuring hopper for combined weighing instrument, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of a design for a measuring hopper for a combined weighing instrument according to the present invention.  
FIG. 2 is a rear view of the measuring hopper of FIG. 1.  
FIG. 3 is a top view of the measuring hopper of FIG. 1.  
FIG. 4 is a bottom view of the measuring hopper of FIG. 1.  
FIG. 5 is a left side view of the measuring hopper of FIG. 1.  
FIG. 6 is a right side view of the measuring hopper of FIG. 1.  
FIG. 7 is a front perspective view of the measuring hopper of FIG. 1.  
FIG. 8 is a rear perspective view of the measuring hopper of FIG. 1.  
FIG. 9 is a front perspective view of the measuring hopper of FIG. 1, showing a gate of the measuring hopper in an open state.  
FIG. 10 is a rear perspective view of the measuring hopper of FIG. 1, showing the gate of the measuring hopper in an open state; and,  
FIG. 11 is a front view of the measuring hopper of FIG. 1, shown positioned in a combined weighing instrument, which is illustrated in broken lines.  
The dashed lines in FIG. 11 illustrate a combined weighing instrument which includes a plurality of measuring portions, each for holding a respective load of bulk material, and which discharges the material from a subset of the measuring portions with loads that have been measured to have a combined weight that is within an allowable range of a combined target weight. The material to be measured is put in an input port of the measuring hopper of the claimed design in a state in which a gate is closed, by a pool hopper of a combined weighing instrument, whereby the measuring hopper can temporarily retain the material to be measured. Further, if a drive apparatus of the combined weighing instrument oscillates upward an oscillating arm of the measuring hopper, a gate of the measuring hopper is opened, whereby the measuring hopper can discharge the retained material to be measured from a discharge port to a collecting chute. The broken lines form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**

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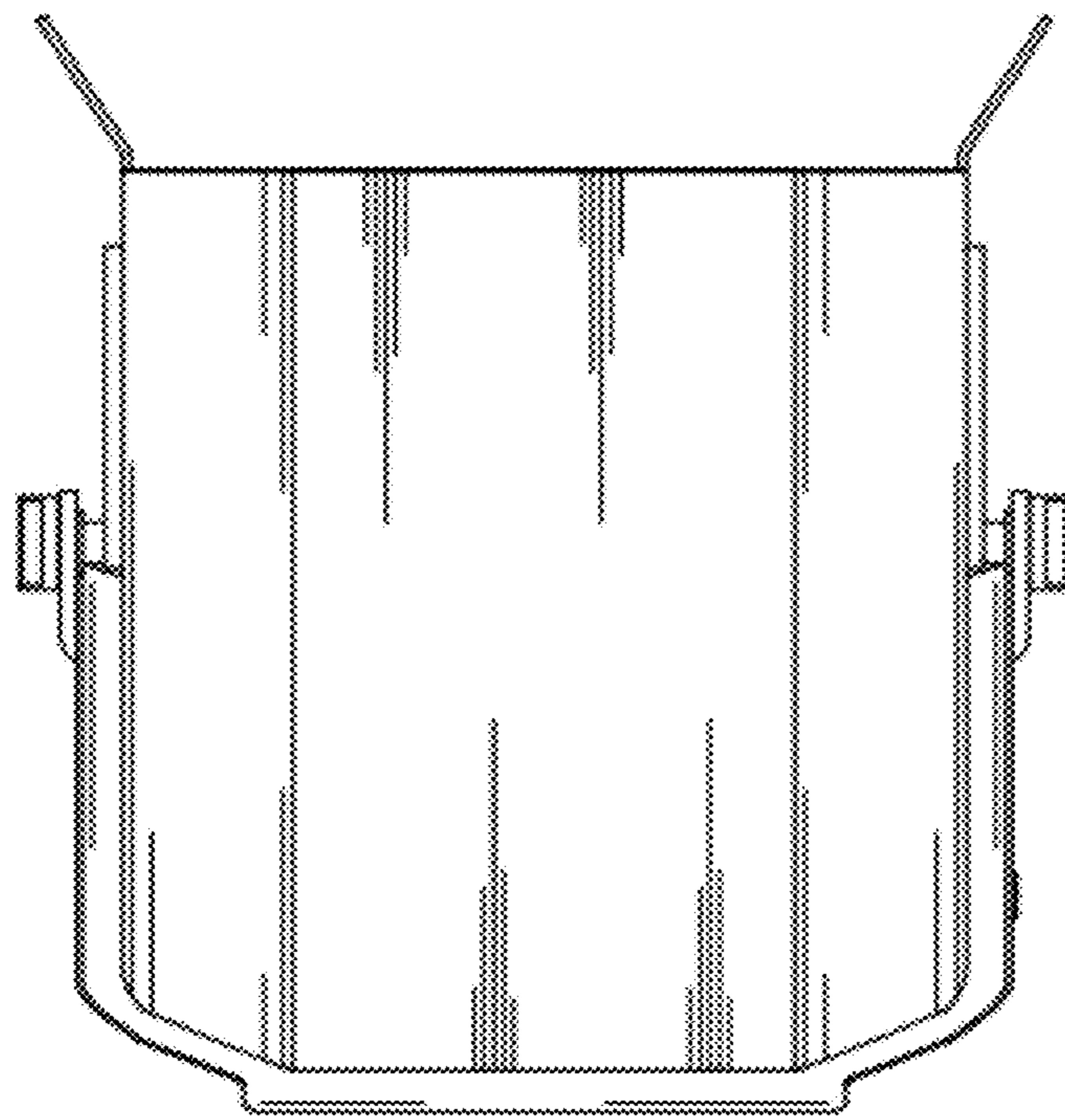


FIG. 1

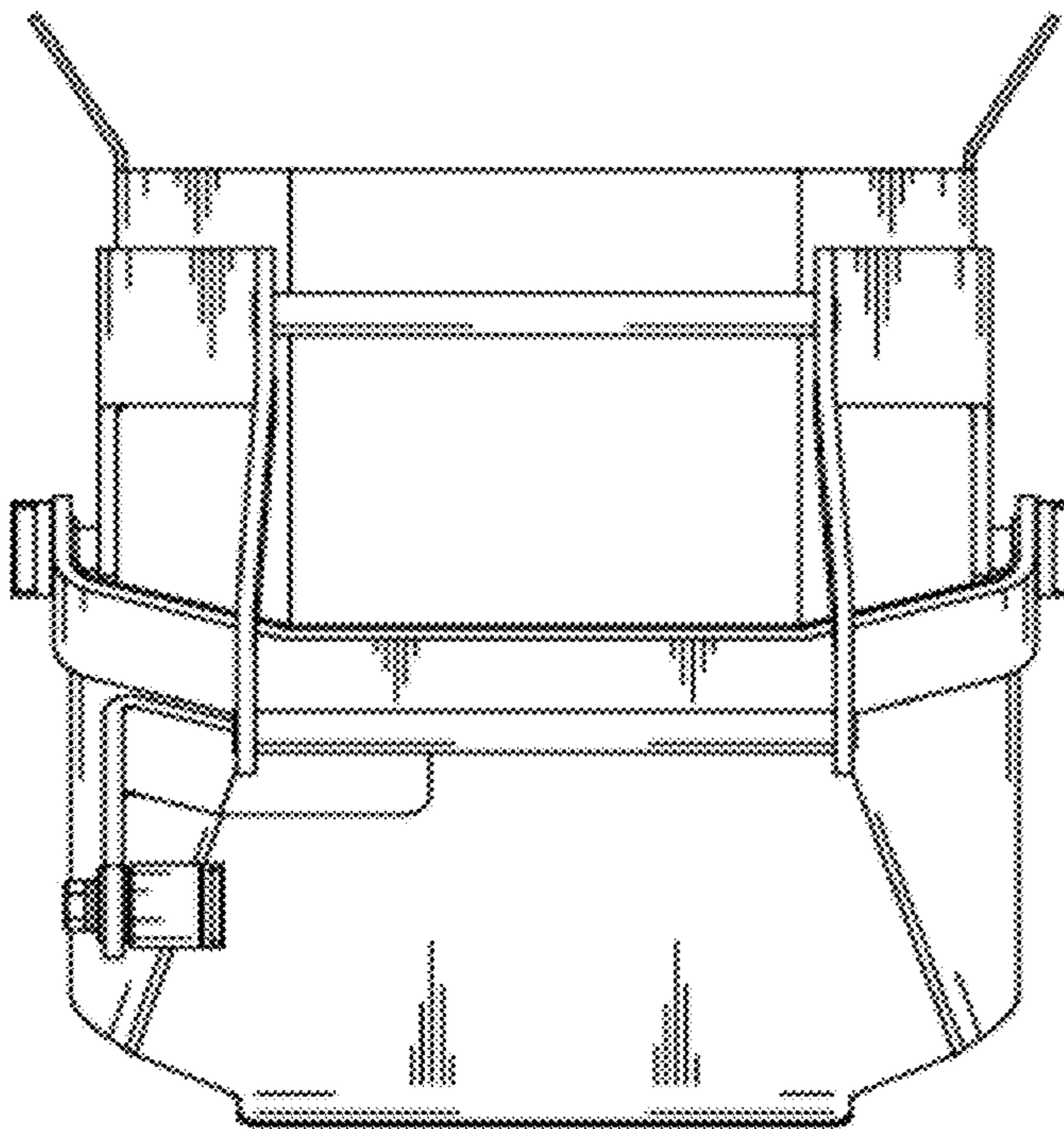
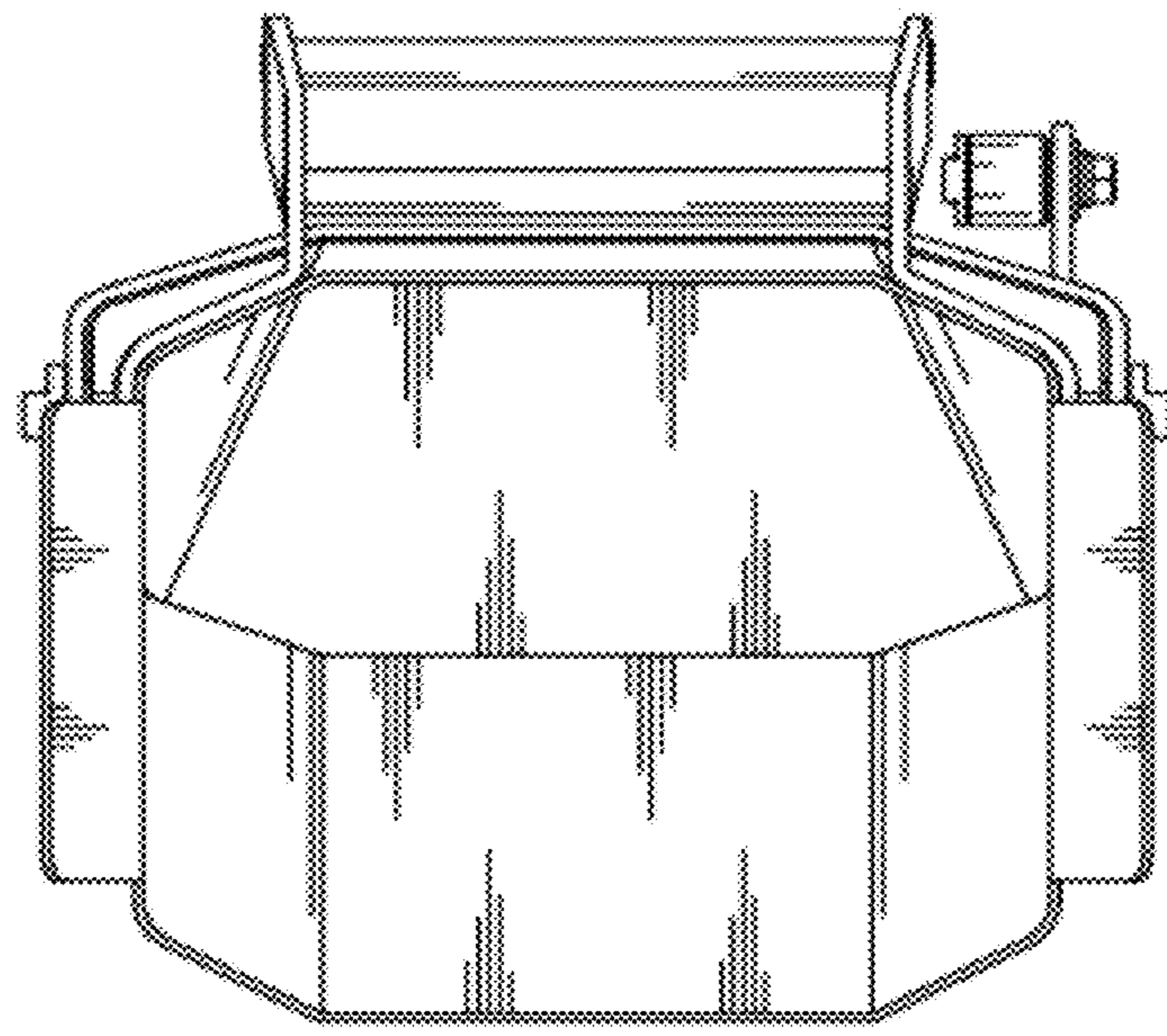
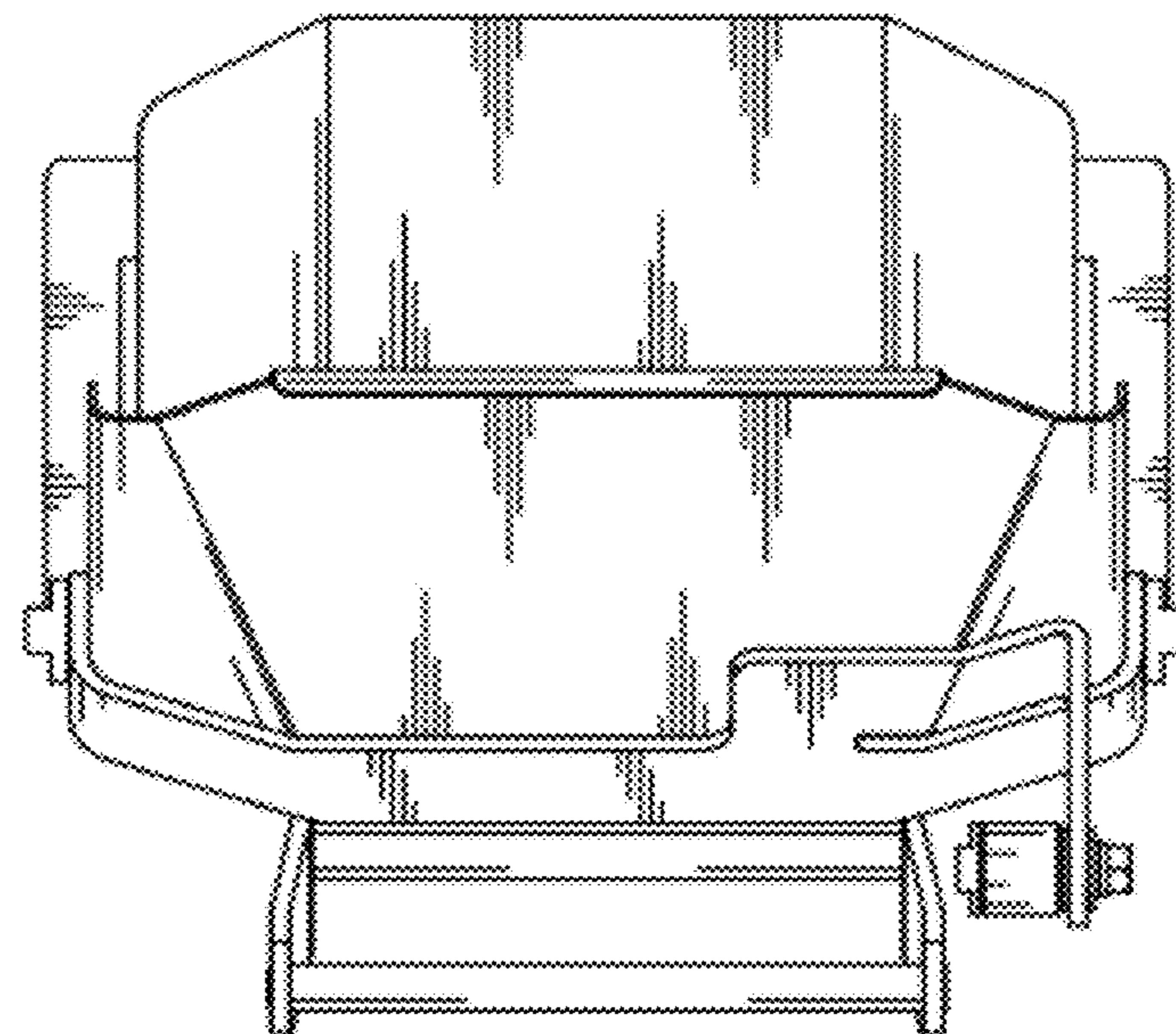


FIG. 2



*FIG. 3*



*FIG. 4*

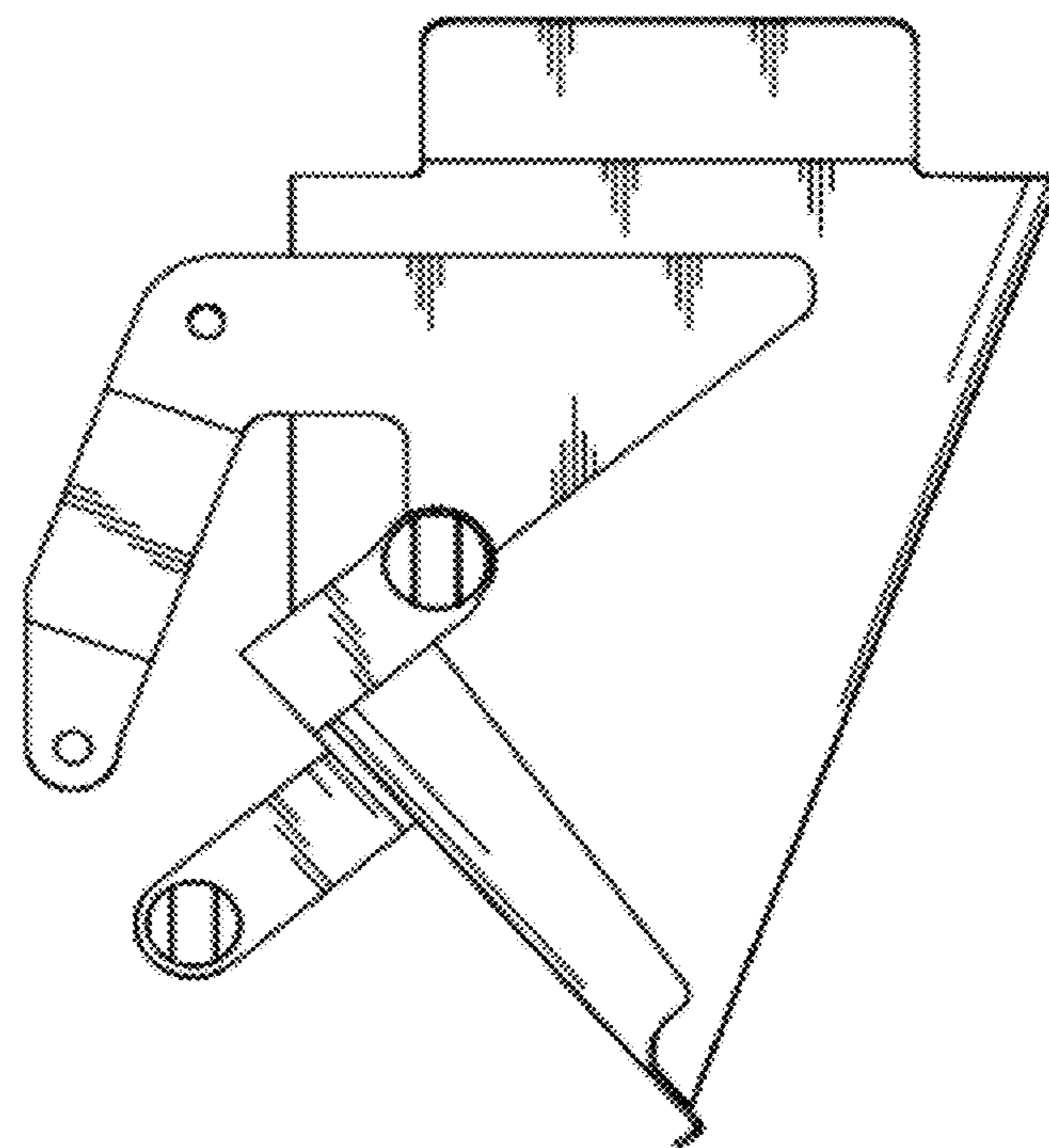


FIG. 5

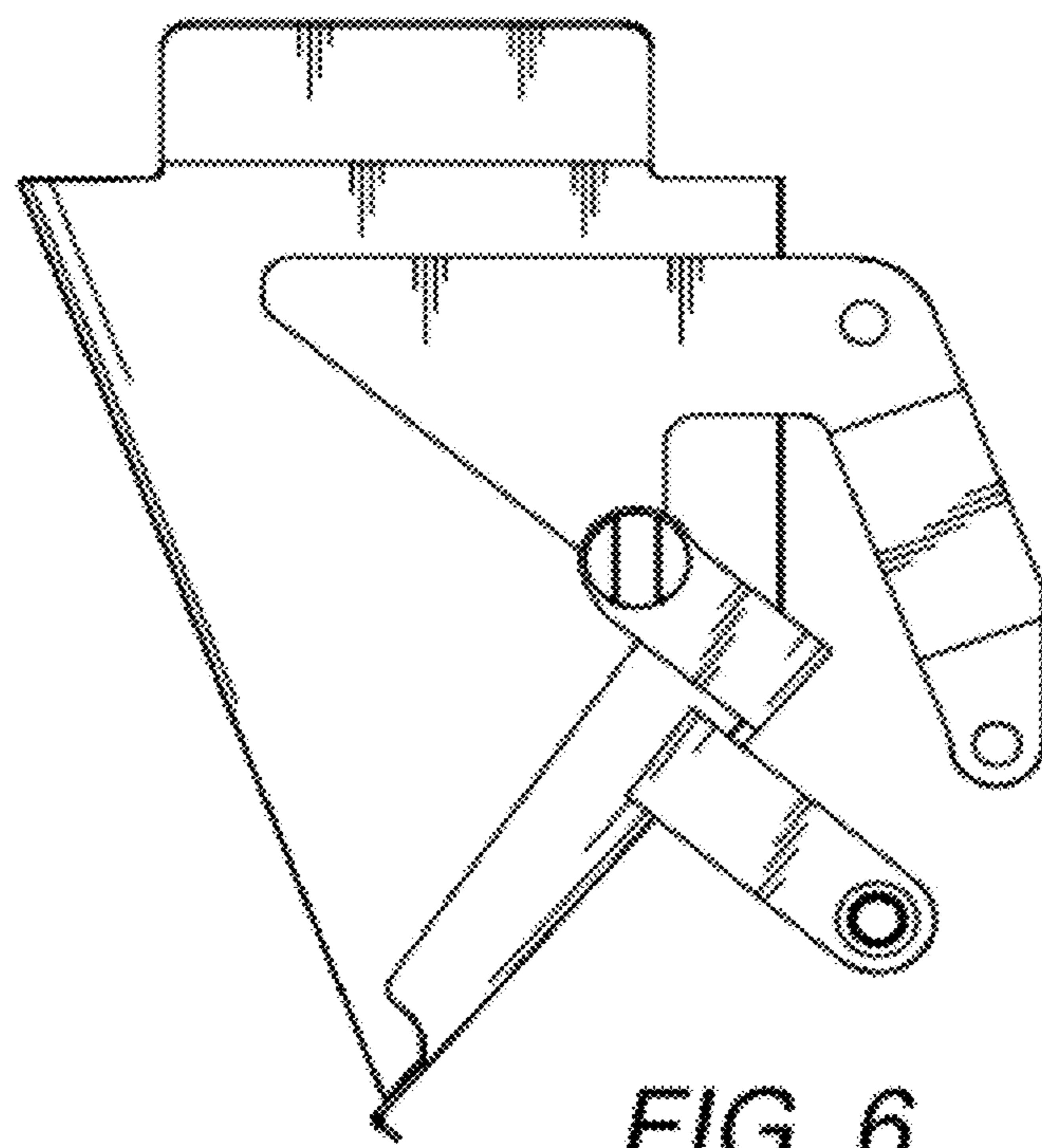


FIG. 6

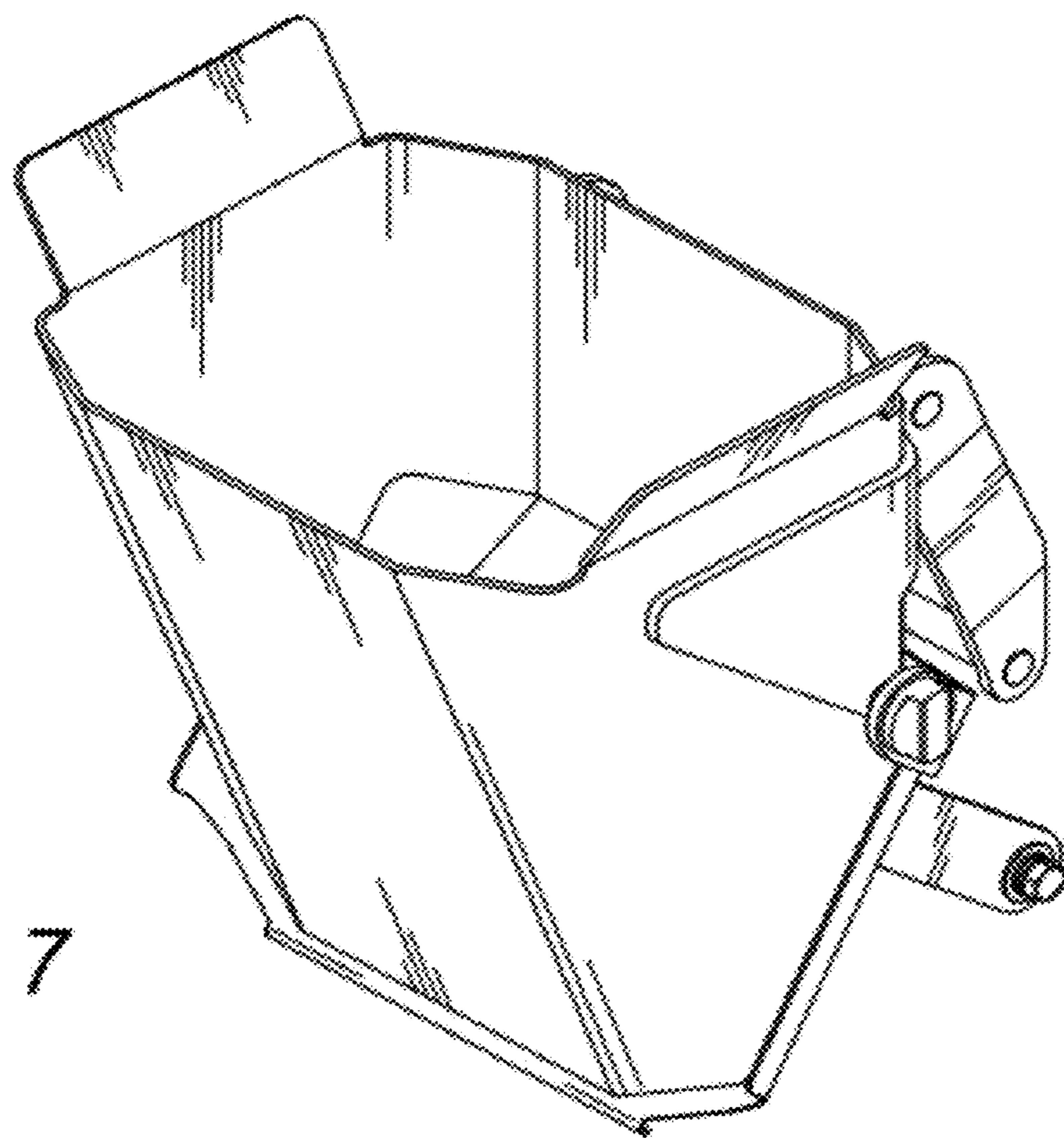


FIG. 7

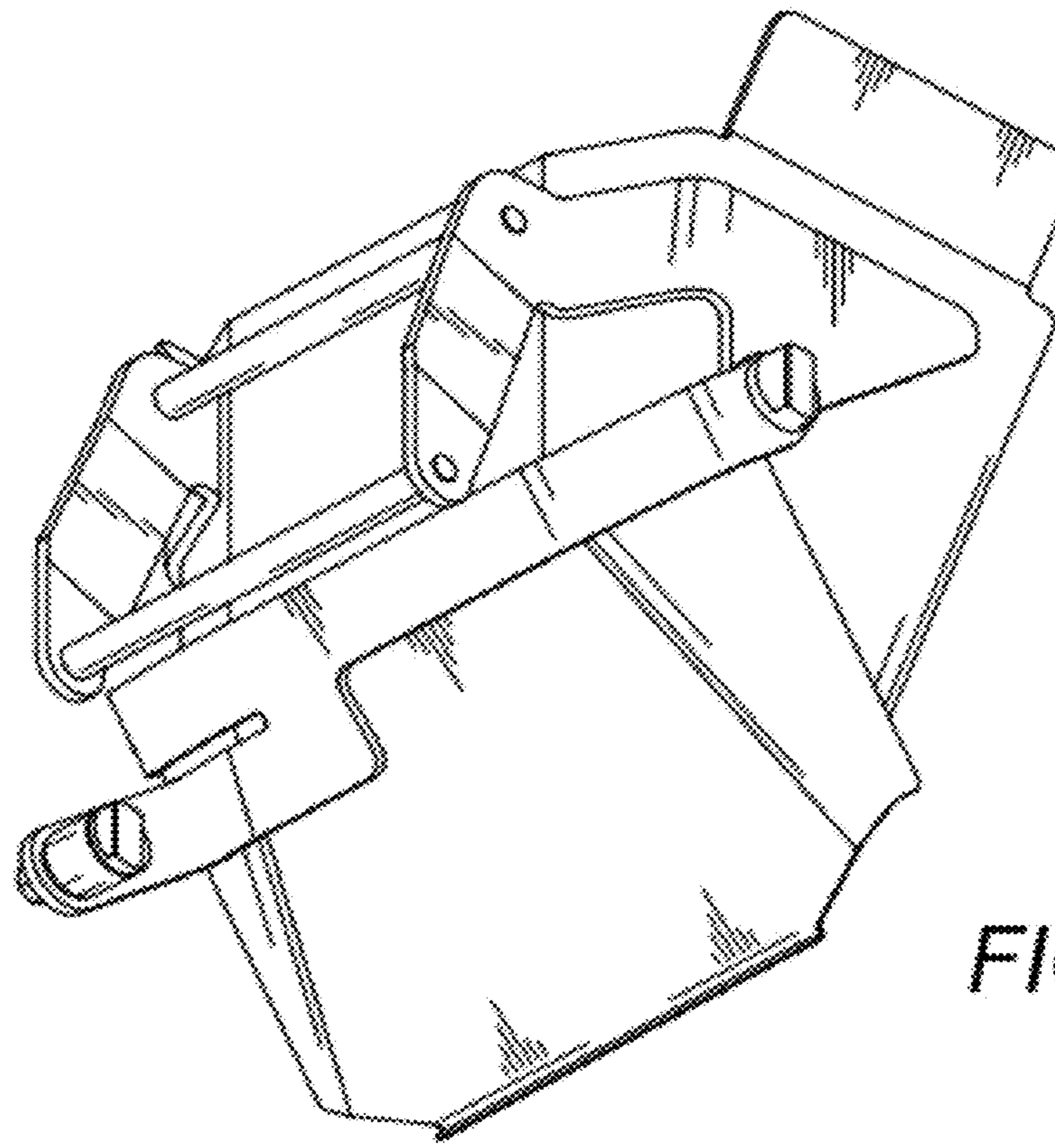
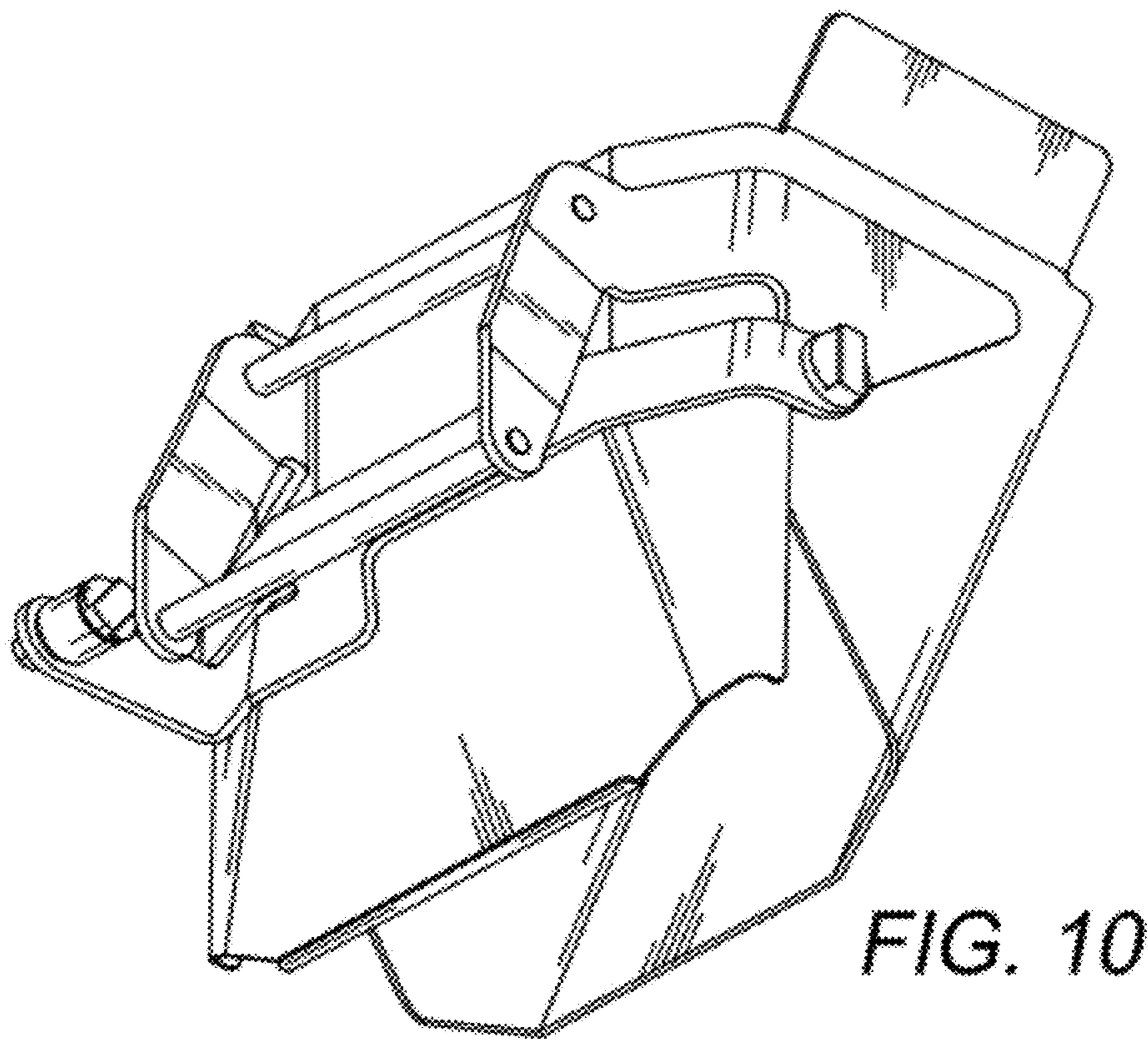
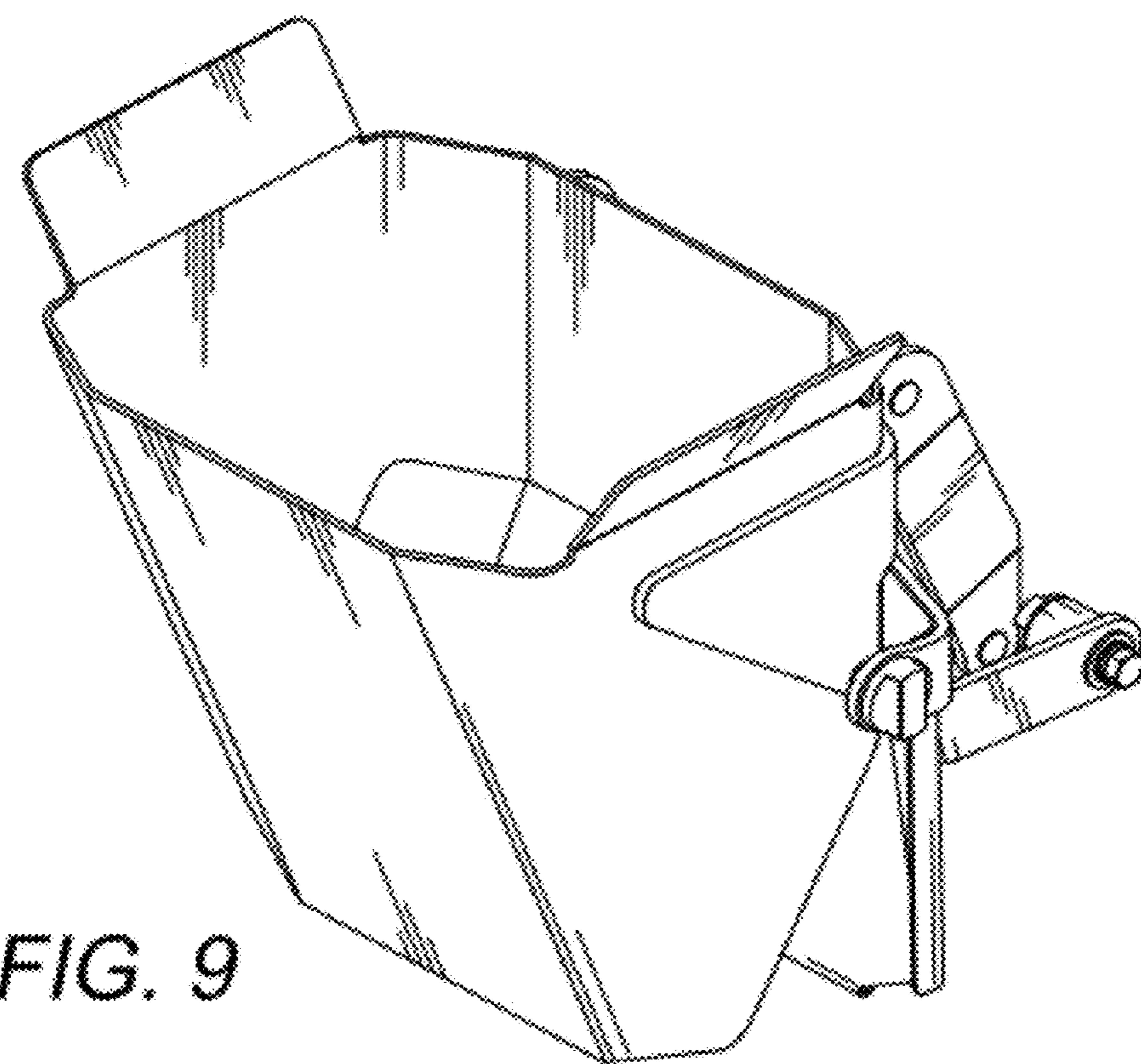
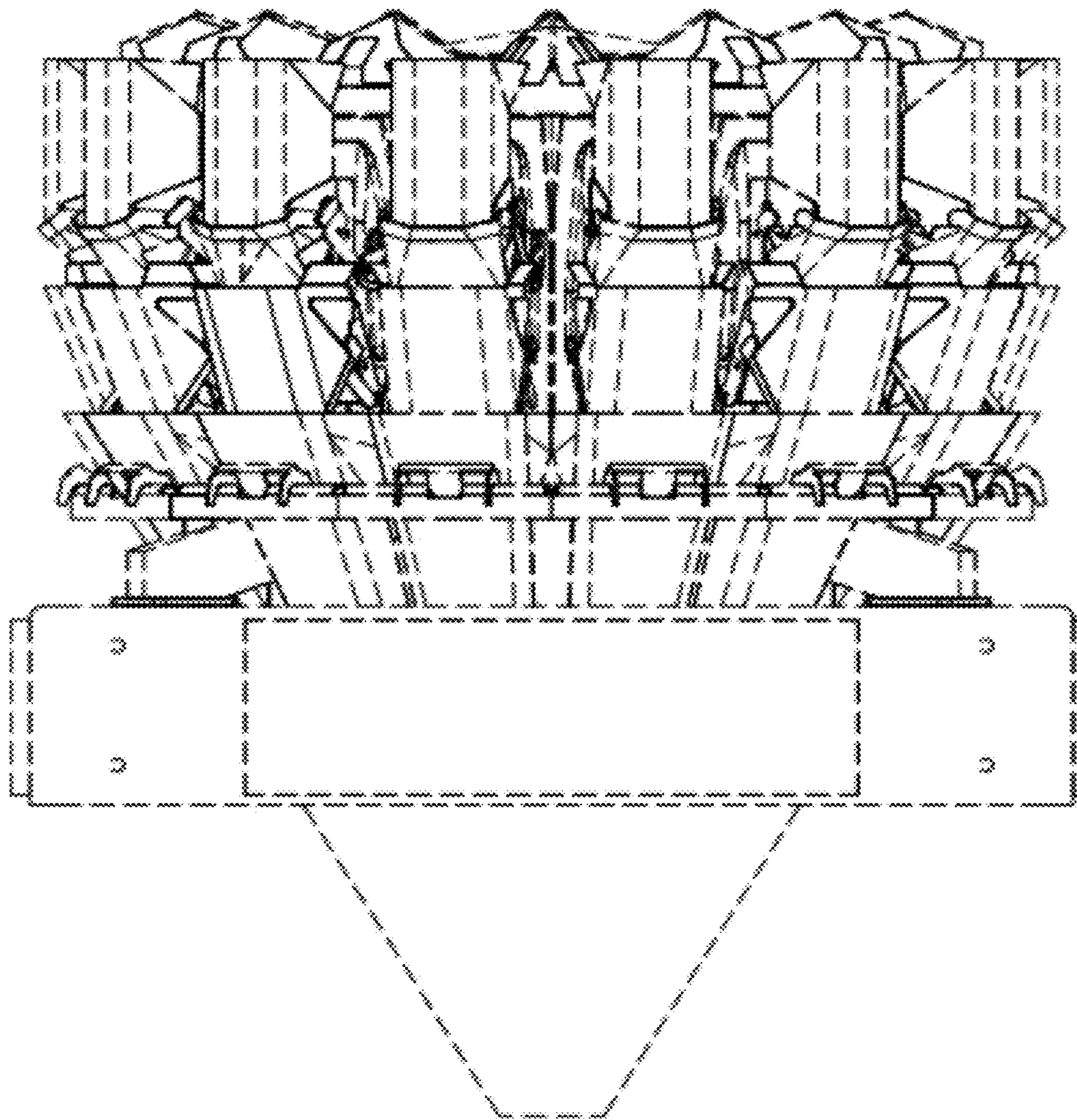


FIG. 8





**FIG. 11**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D665,683 S  
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INVENTOR(S) : Takayuki Nagai

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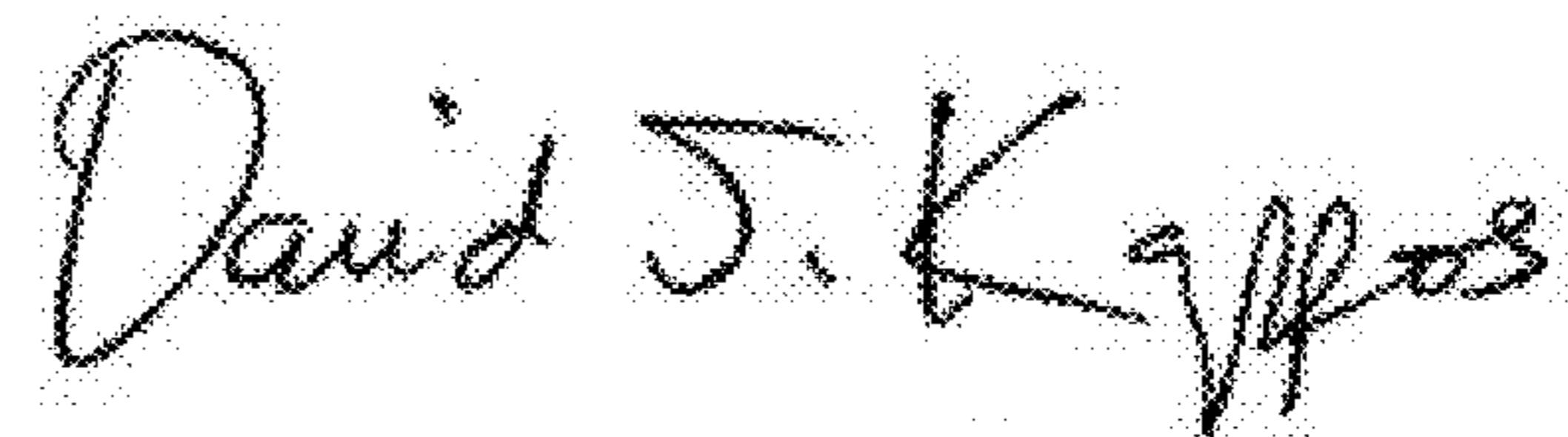
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page in the Description of the drawings:

Of Fig. 5, delete “for”.

Of Fig. 10, delete “;and,” and insert a --.-- after “state”.

Signed and Sealed this  
Thirtieth Day of October, 2012



David J. Kappos  
Director of the United States Patent and Trademark Office