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Nagai

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POOL HOPPER FOR COMBINED WEIGHING INSTRUMENT

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14 Years l erm:

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Apr. 29, 2011 Filed: (22)

(30)Foreign Application Priority Data

Oct. 30, 2010 (JP) 2010-026203	
(51)	LOC (9) Cl
(52)	U.S. Cl. D10/94
(58)	Field of Classification Search
	D10/88, 89, 90, 93, 94; 53/53; 73/146; 141/1,
	141/83; 177/1, 25.11, 25.12, 25.13, 25.14,
	177/25.18, 34, 50, 105, 123, 134, 185, 187,
	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.

(56)**References Cited**

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(Continued)

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

(57)CLAIM

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

DESCRIPTION

FIG. 1 is a front view of a design for a pool hopper for a combined weighing instrument according to the present invention.

FIG. 2 is a rear view of the pool hopper of FIG. 1.

FIG. 3 is a top view of the pool hopper of FIG. 1.

FIG. 4 is a bottom view of the pool hopper of FIG. 1.

FIG. 5 is a left side view of the pool hopper of FIG. 1.

FIG. 6 is right side view of the pool hopper of FIG. 1.

FIG. 7 is a front perspective view the pool hopper of FIG. 1. FIG. 8 is a rear perspective view the pool hopper of FIG. 1.

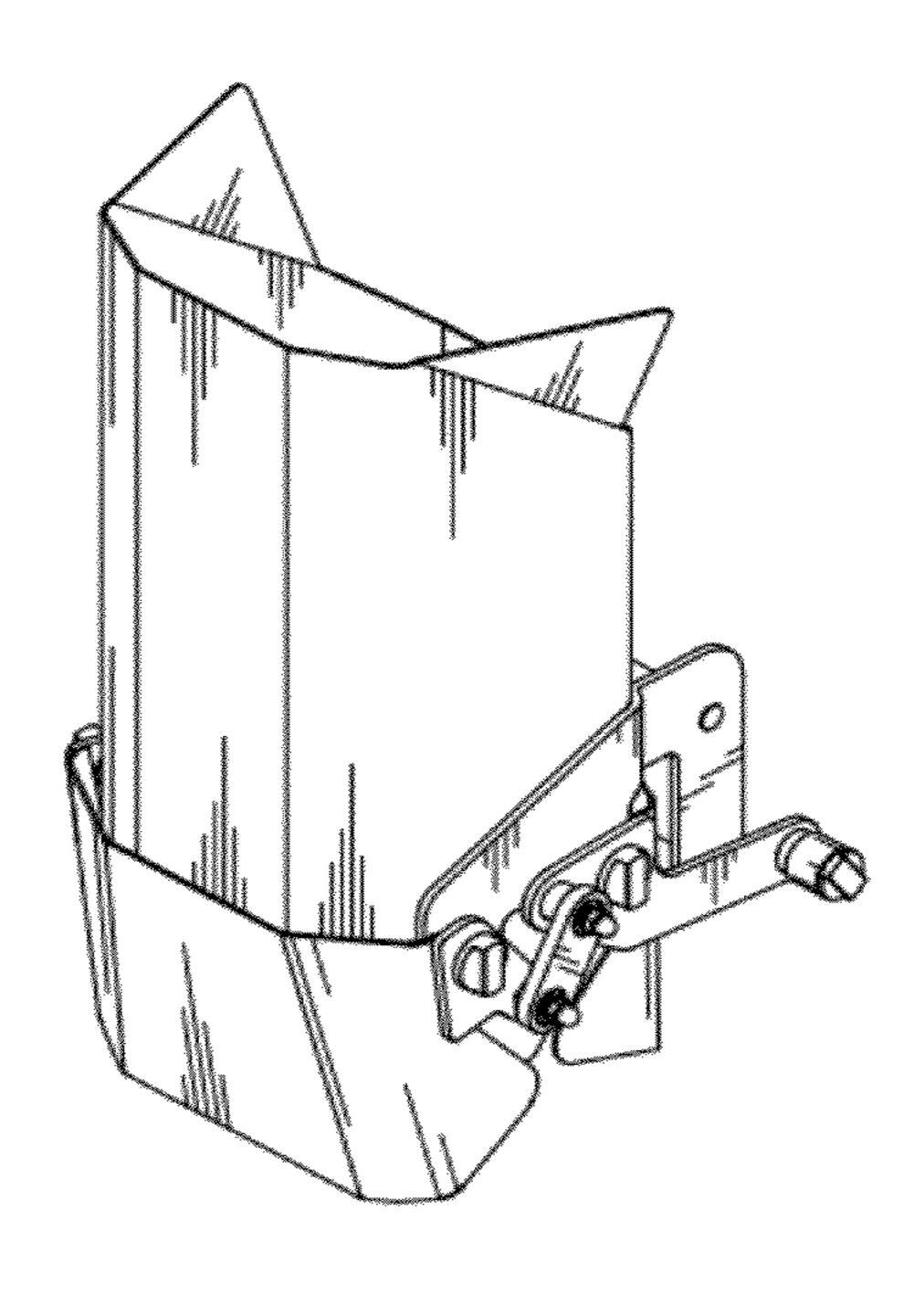
FIG. 9 is a front perspective view of the pool hopper of FIG.

1, showing a gate of the pool hopper in an open state. FIG. 10 is a rear perspective view of the pool hopper of FIG.

1, showing the gate of the pool hopper in an open state; and, FIG. 11 is a front view of the pool 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 a pool hopper of the claimed design in a state in which a gate of the pool hopper is closed, by a radiation trough of a combined weighing instrument, whereby the pool 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 pool hopper, a gate of the pool hopper is opened, whereby the present article can discharge the retained material to be measured from a discharge port to a measuring portion. The broken lines form no part of the claimed design.

1 Claim, 6 Drawing Sheets



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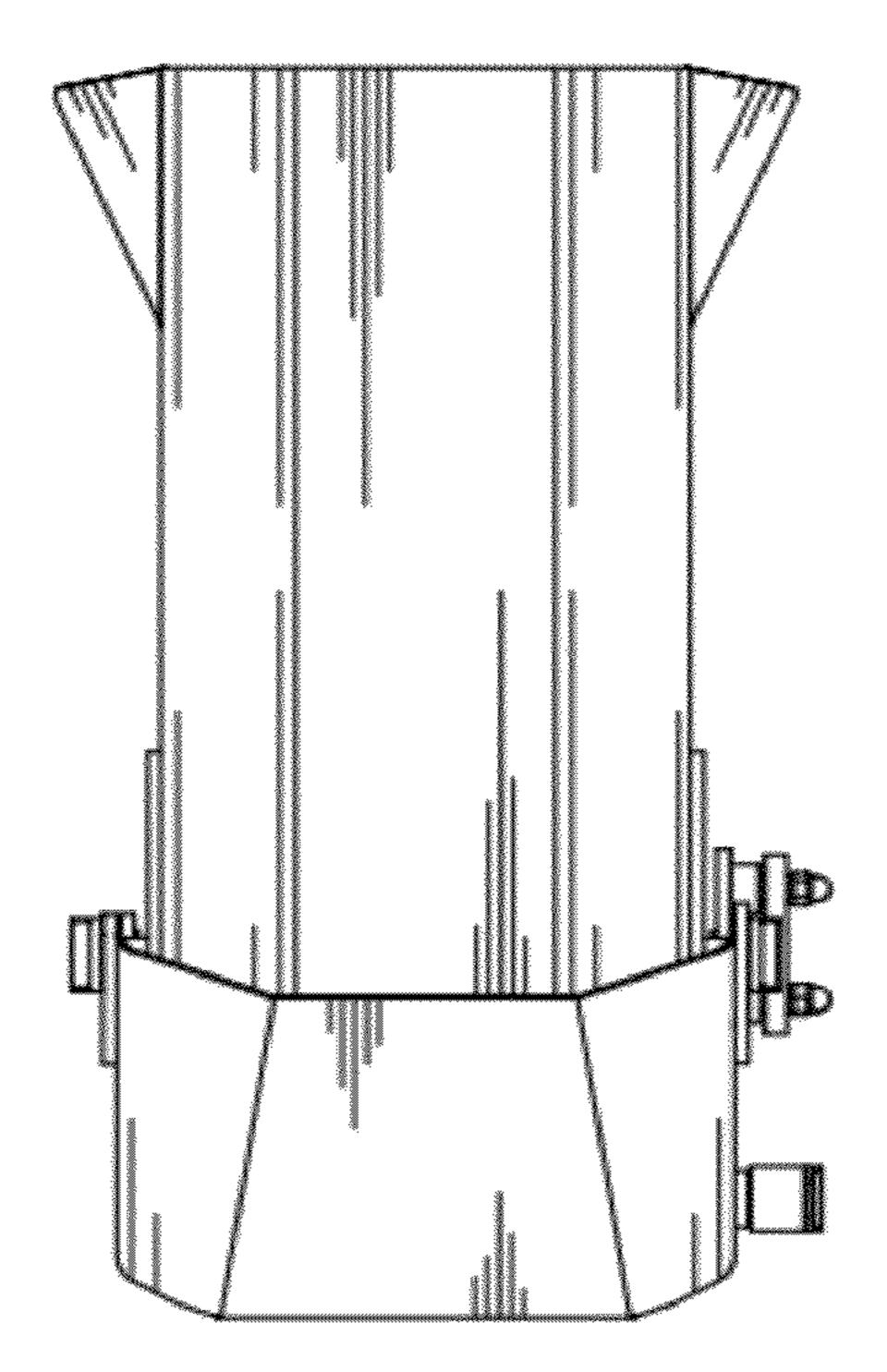


FIG. 1

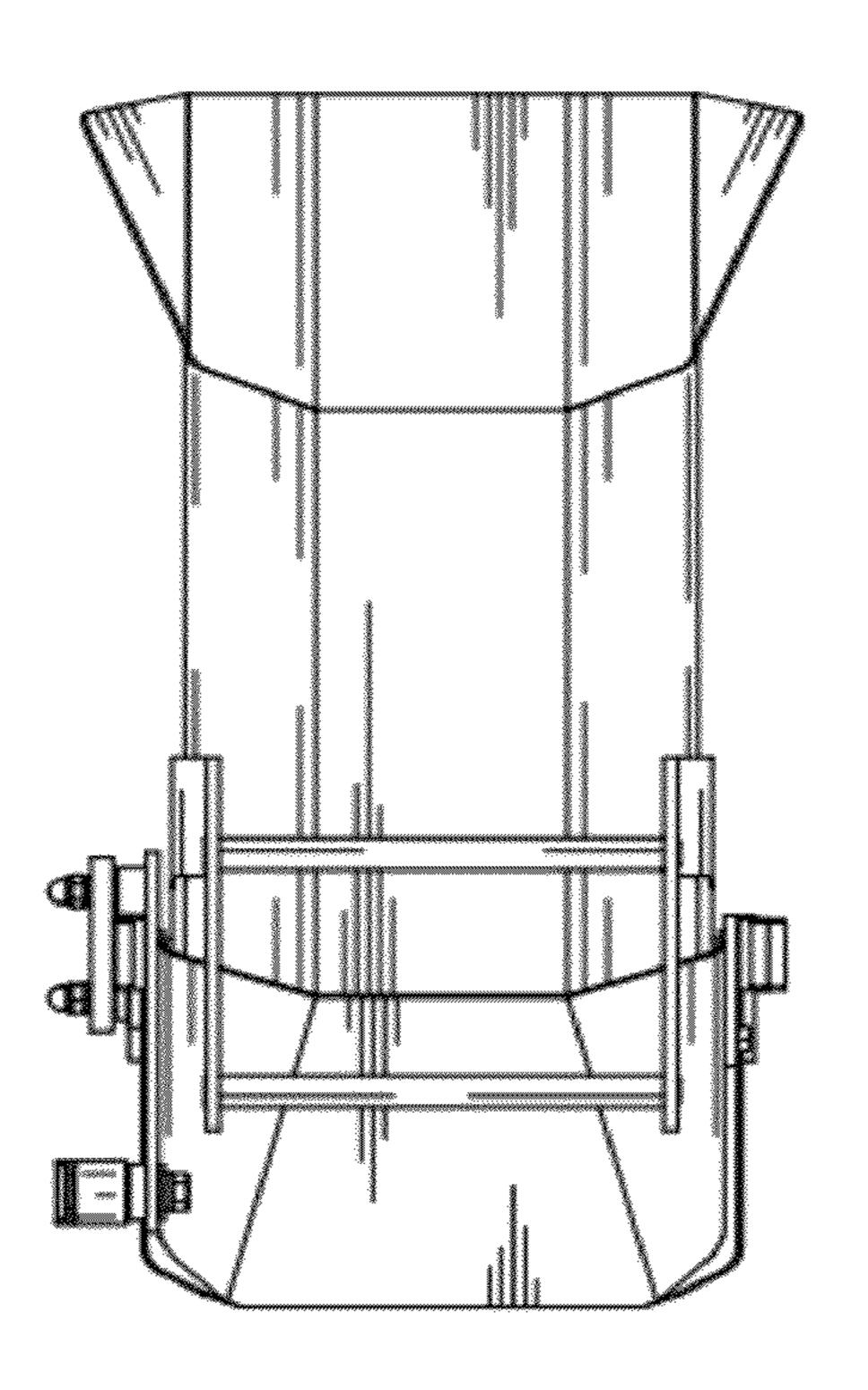
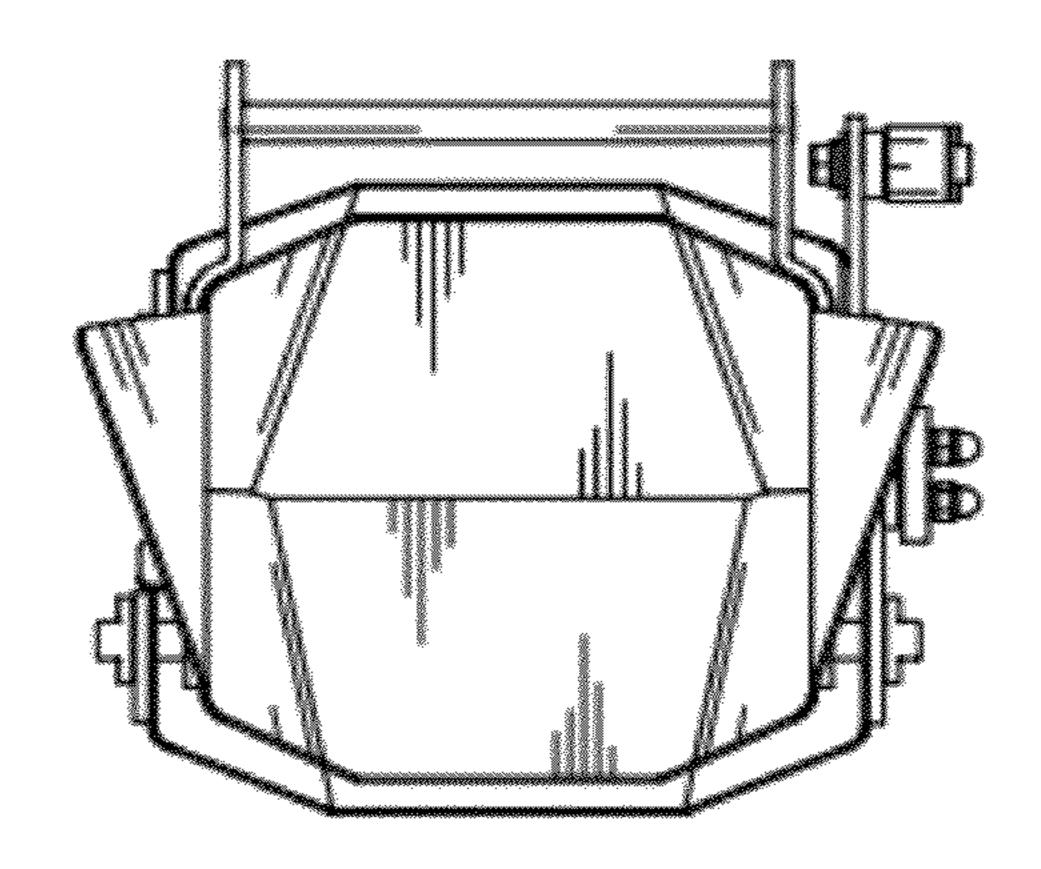
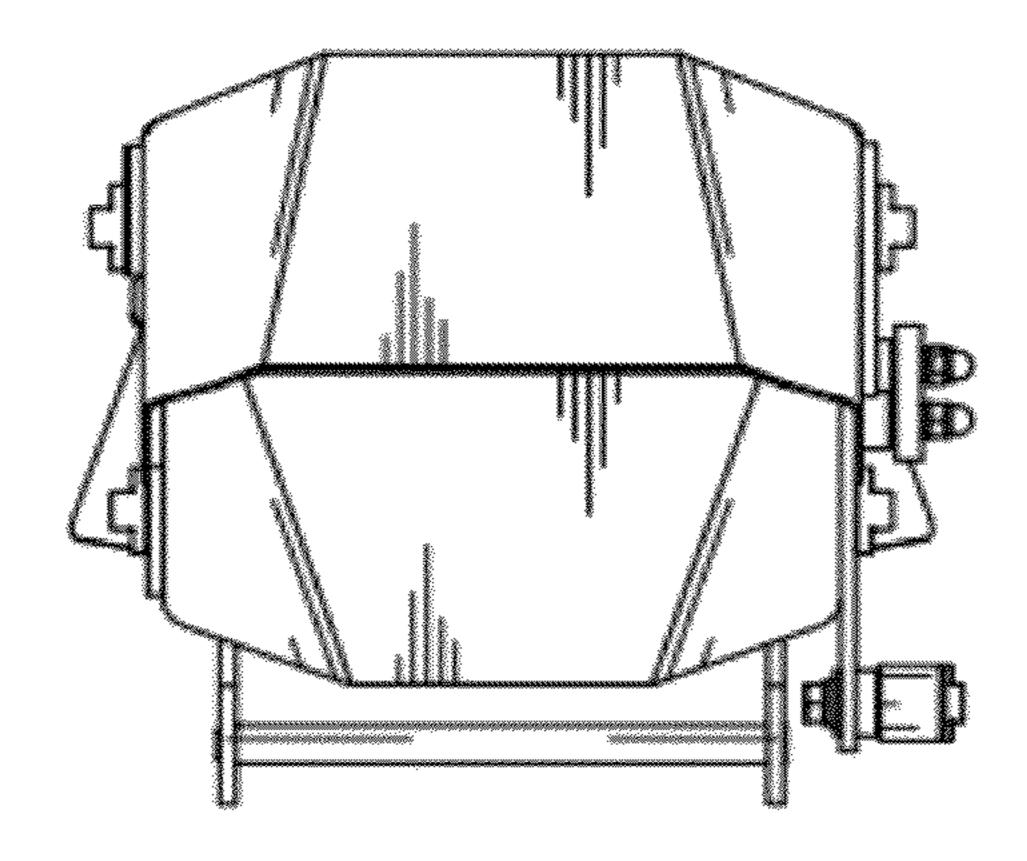
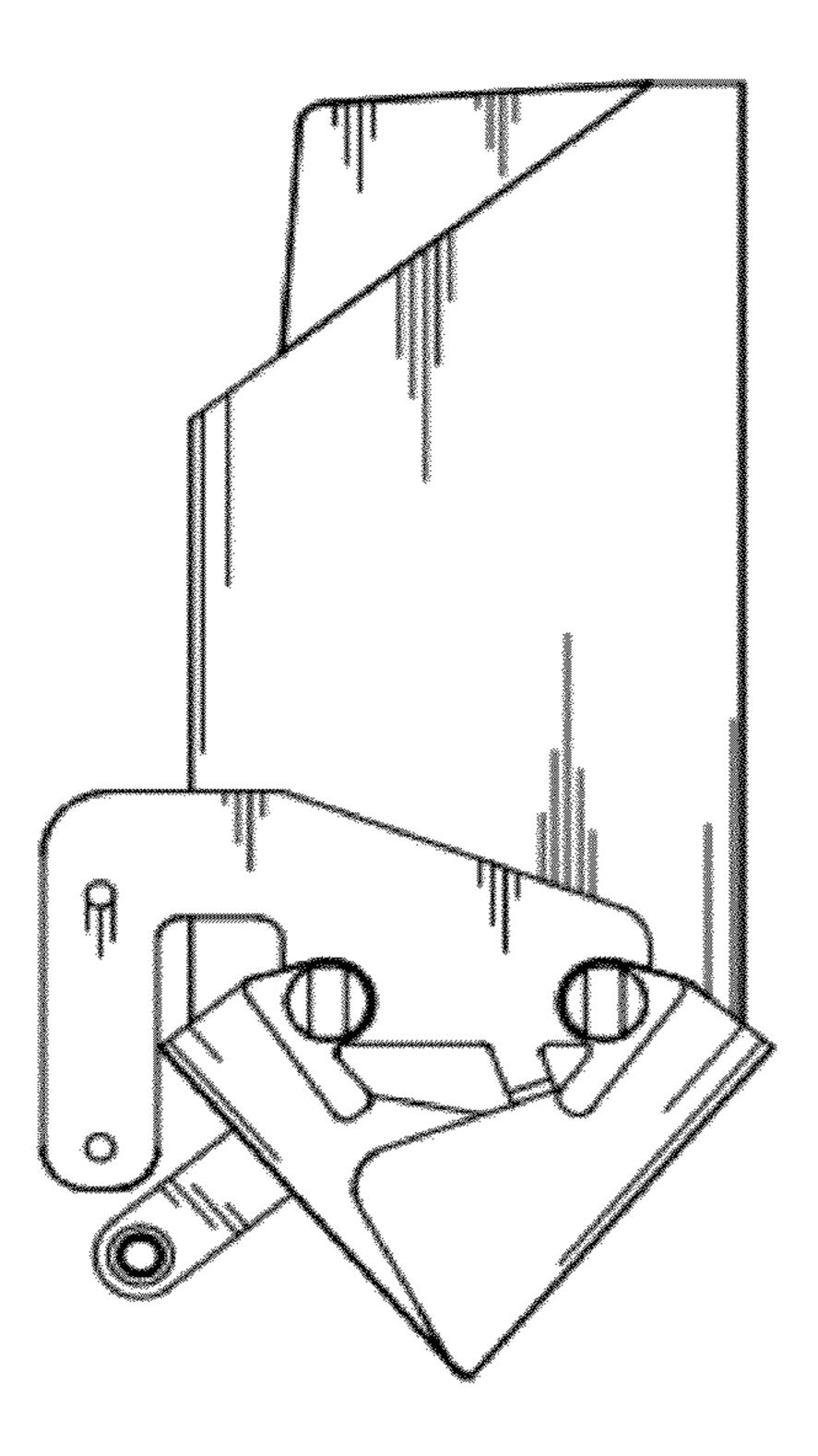


FIG. 2

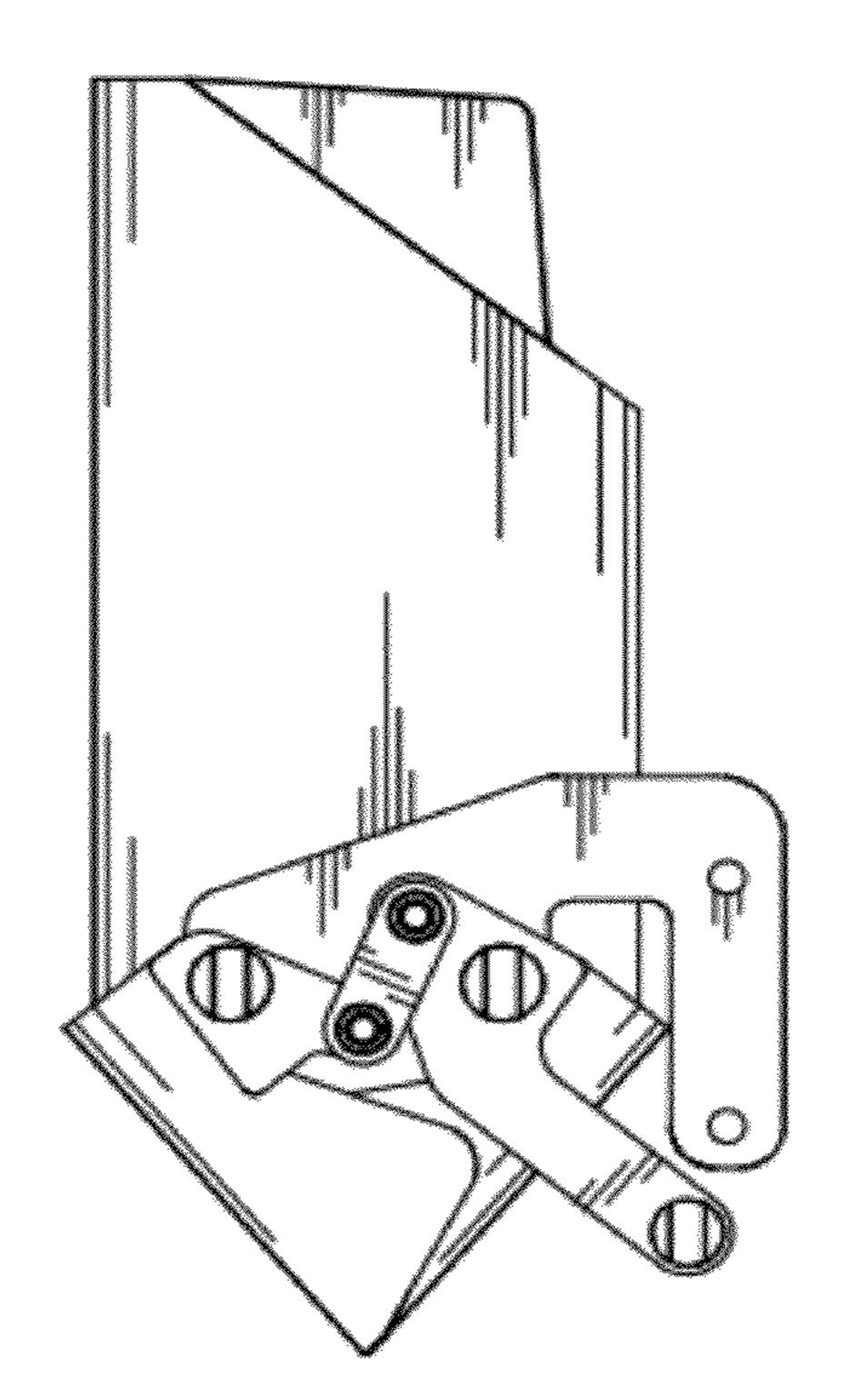




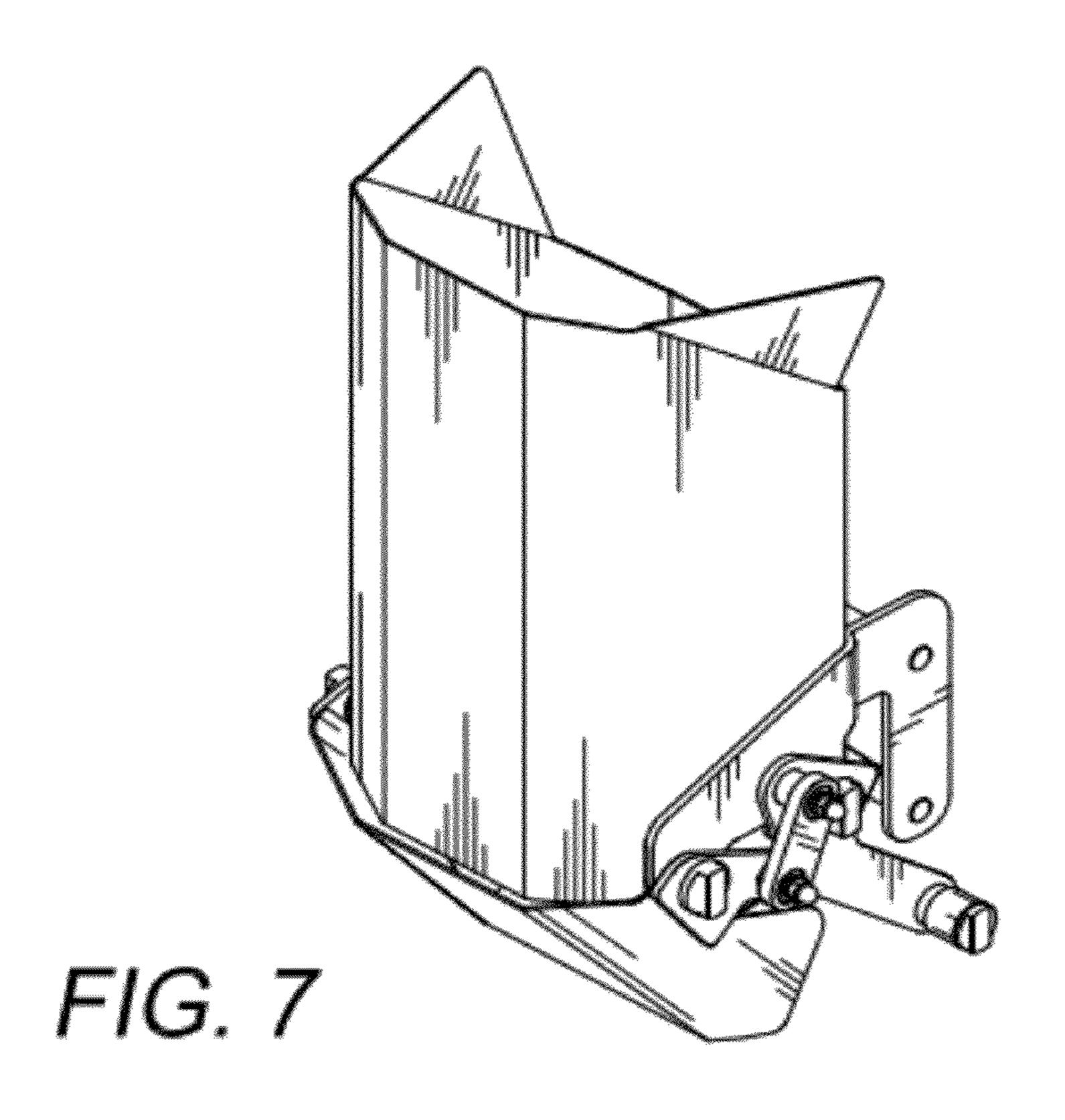


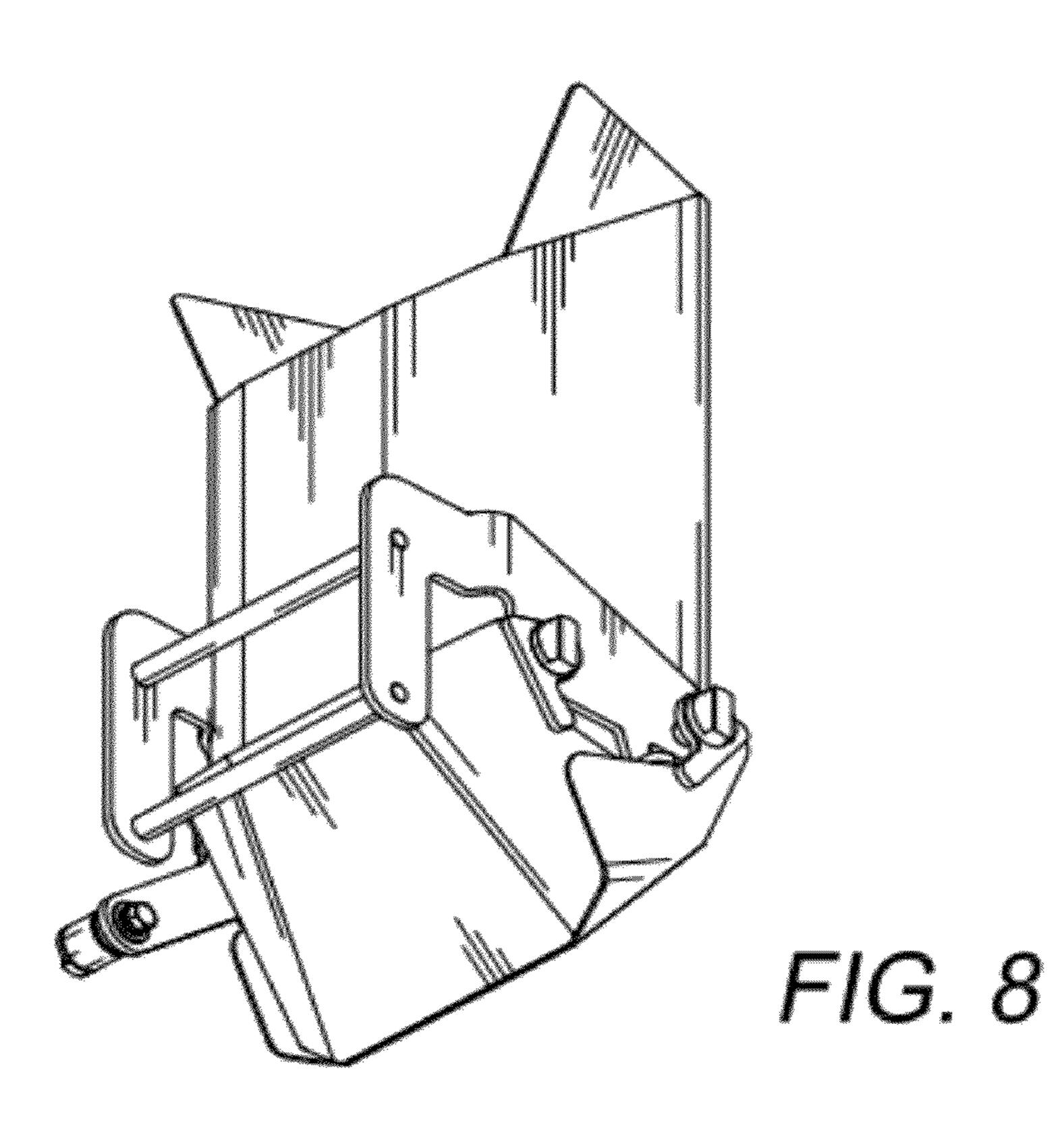


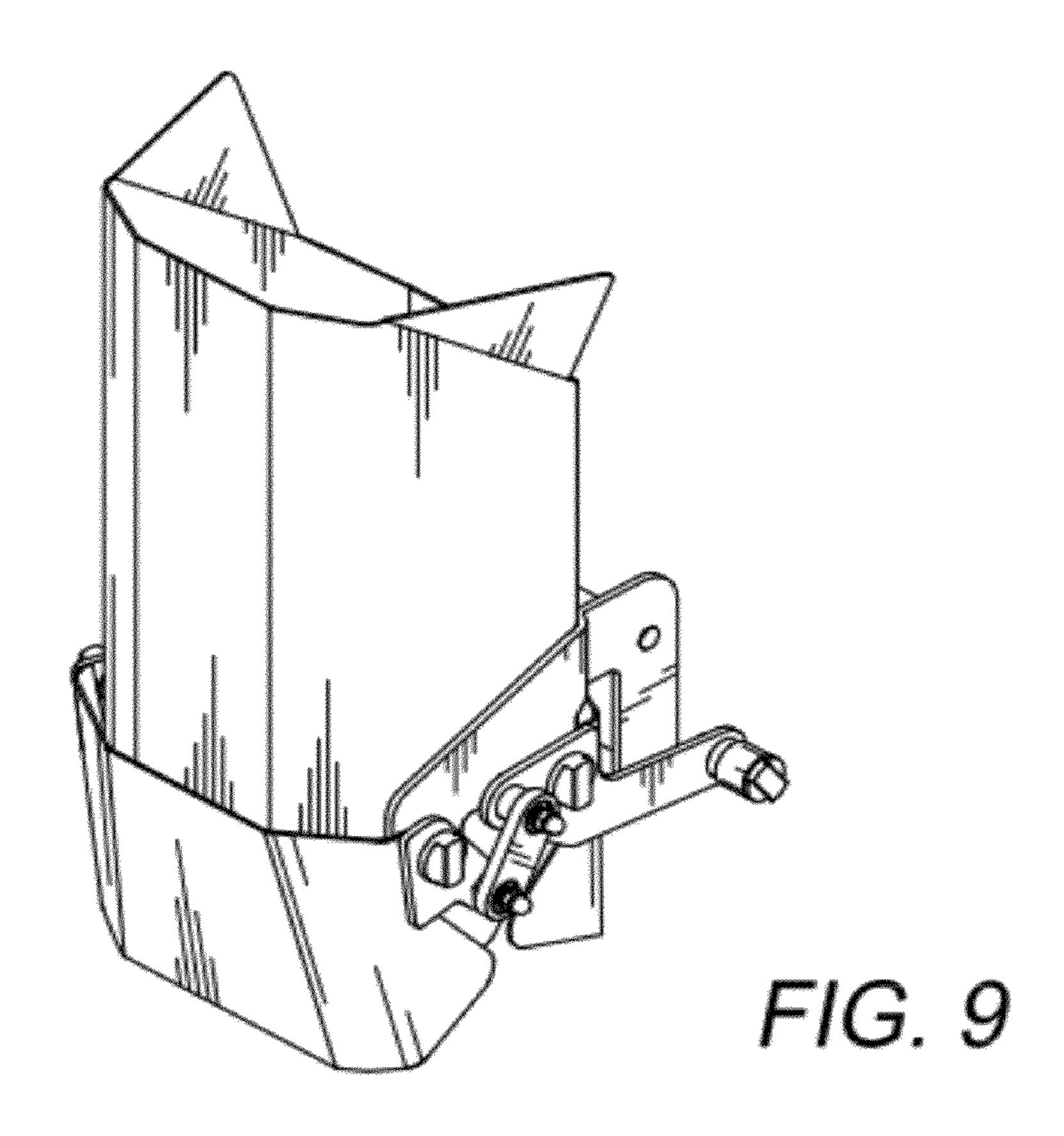
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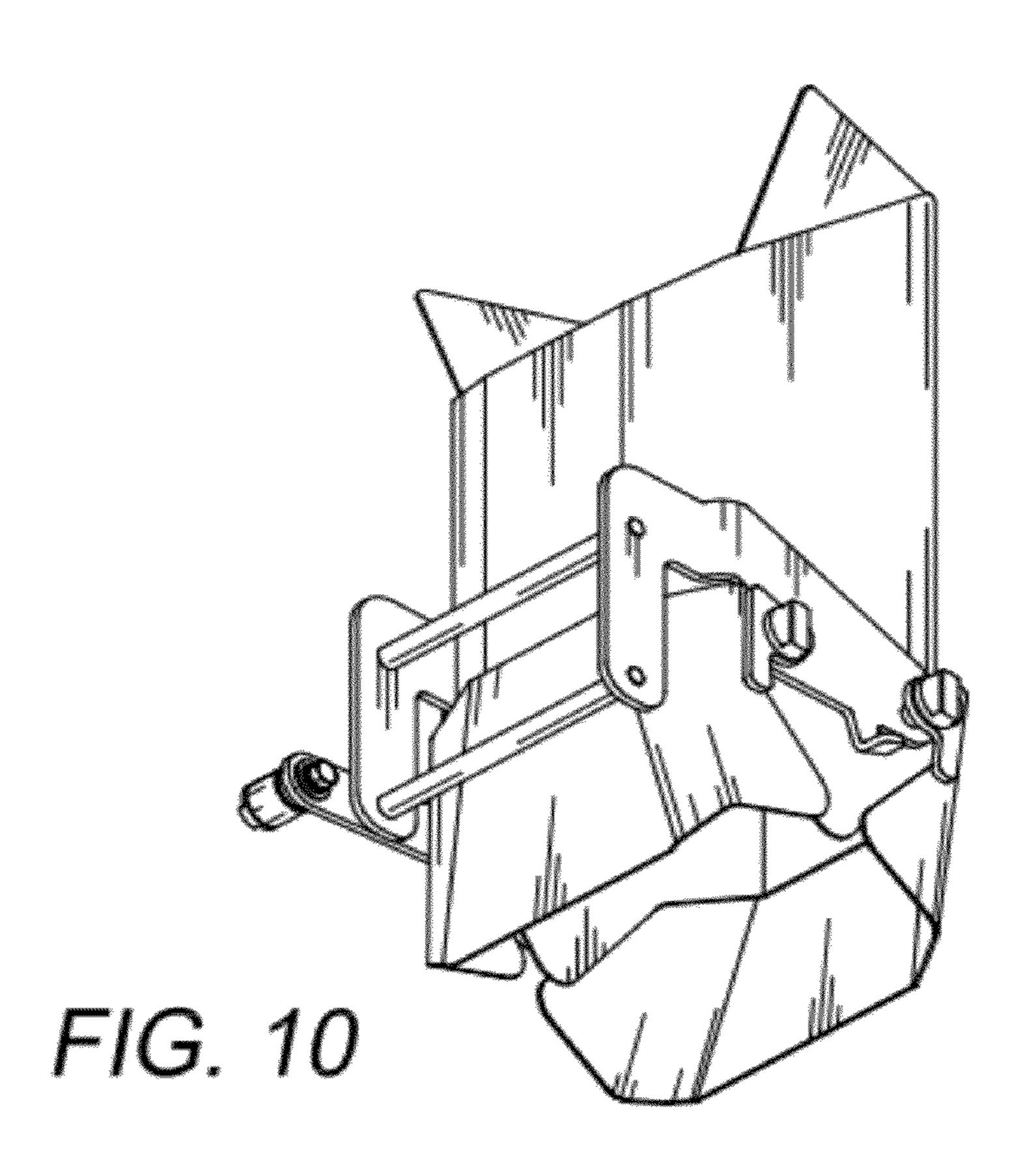


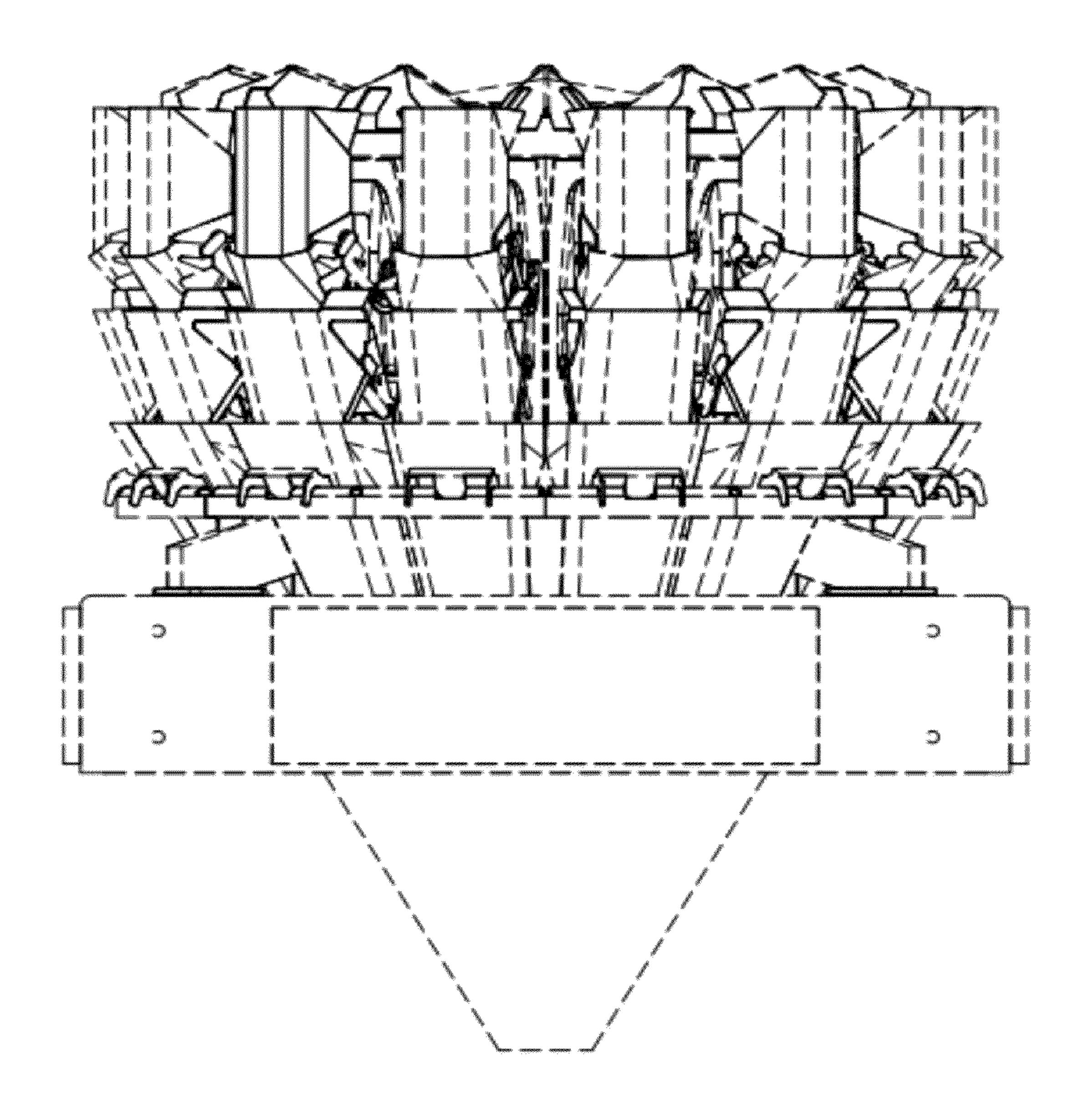
F/G. 6











UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : D664,872 S
Page 1 of 1

APPLICATION NO. : 29/390900

DATED : August 7, 2012

INVENTOR(S) : Takayuki Nagai

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

Title Page, Item 74:

Remove "Allenman" and replace with --Alleman--.

In the Description:

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

Signed and Sealed this Twenty-third Day of October, 2012

David J. Kappos

Director of the United States Patent and Trademark Office