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**Swatosch et al.**

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(54) **VACUUM PUMP**

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(52) **U.S. Cl.**  
USPC ..... **D15/7; D24/232**

(58) **Field of Classification Search**  
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D15/7-9, 144, 144.1, 144.2; D24/232  
CPC ... B23K 9/00; B23K 9/10; B23K 9/06; B23K  
9/32; B23K 10/00; B23K 10/02; B23K  
28/02; B23K 37/0294; F04B 53/14; F04B  
53/92; F04B 33/00; F04B 33/005; F04B  
1/005; F04D 13/06; F04D 29/60; F04D  
29/22; F04D 29/046; F04D 29/2266;  
F16K 11/048; F16K 15/20; F16K 31/602;  
F16L 37/18; F16L 37/20; F16L 25/00  
See application file for complete search history.

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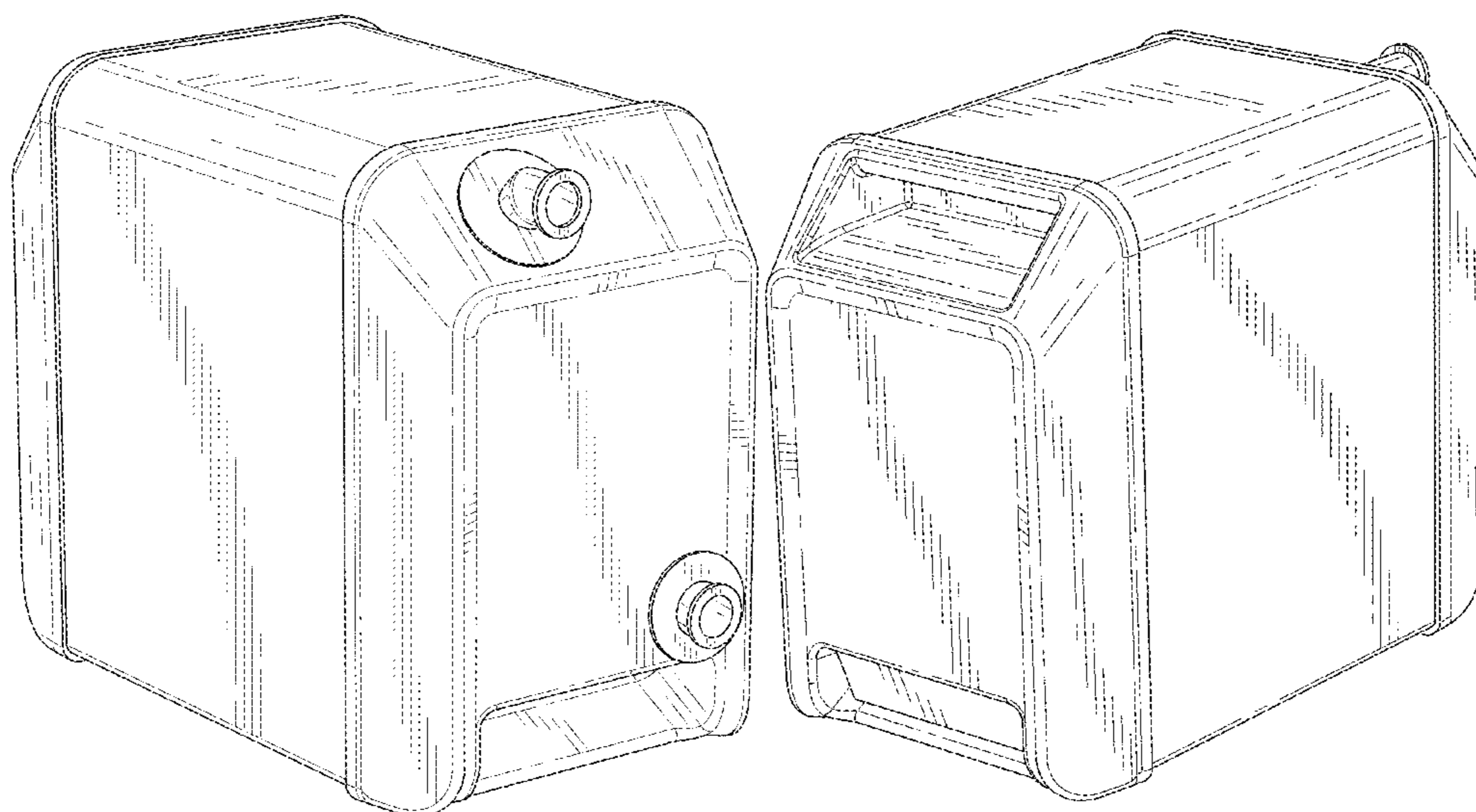
(57) **CLAIM**

The ornamental design for a vacuum pump, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the design of a vacuum pump in accordance with the invention as seen from the front; FIG. 2 is a rear perspective view of the vacuum pump shown in FIG. 1; FIG. 3 is a front elevational view of the vacuum pump shown in FIG. 1; FIG. 4 is a rear elevational view of the vacuum pump shown in FIG. 1; FIG. 5 is a right elevational view of the vacuum pump shown in FIG. 1; FIG. 6 is a left elevational view of the vacuum pump shown in FIG. 1; and, FIG. 7 is a top plan view of the vacuum pump shown in FIG. 1.  
The bottom view of the design is plain and unadorned.

**1 Claim, 7 Drawing Sheets**



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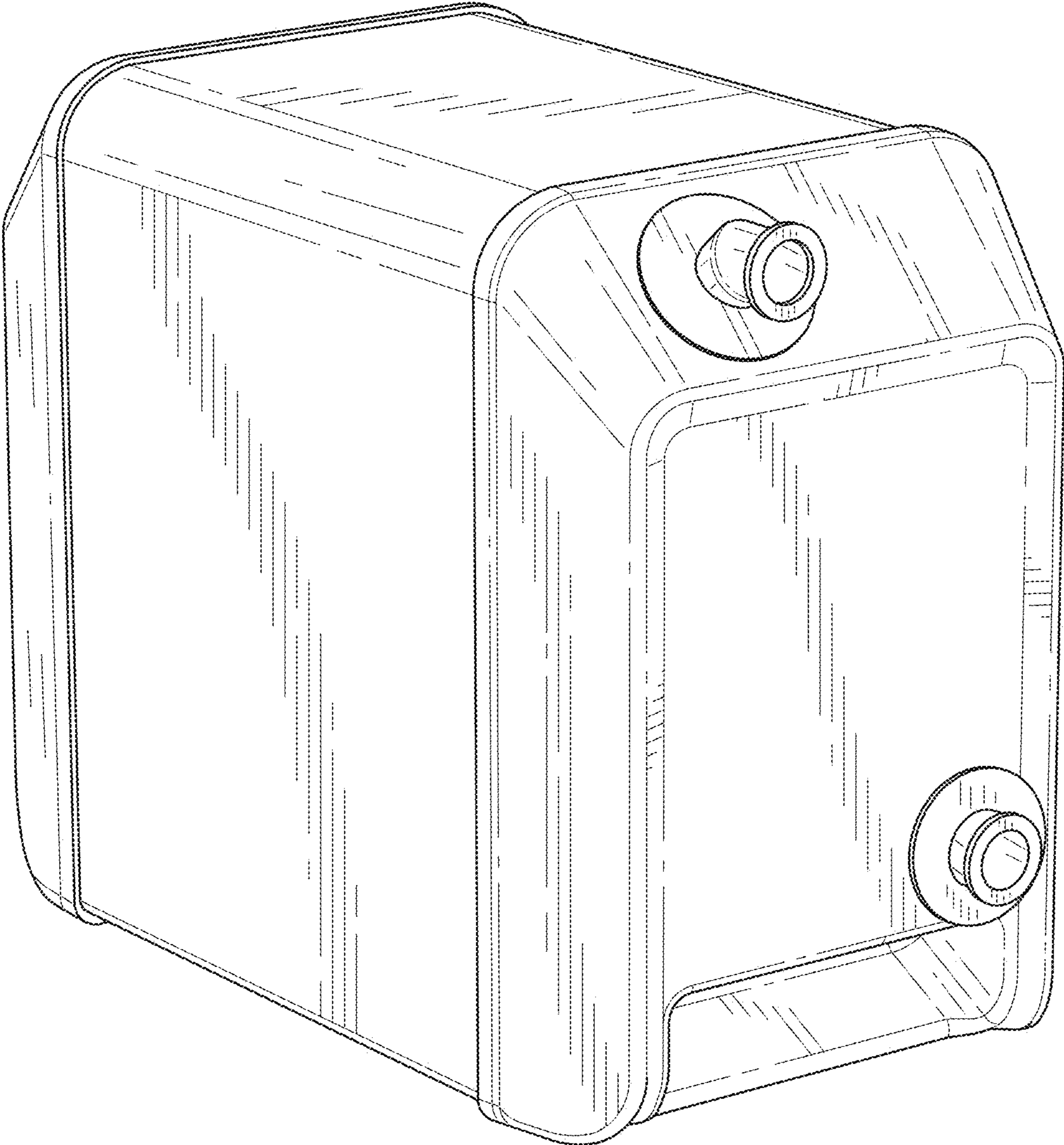


FIG. 1

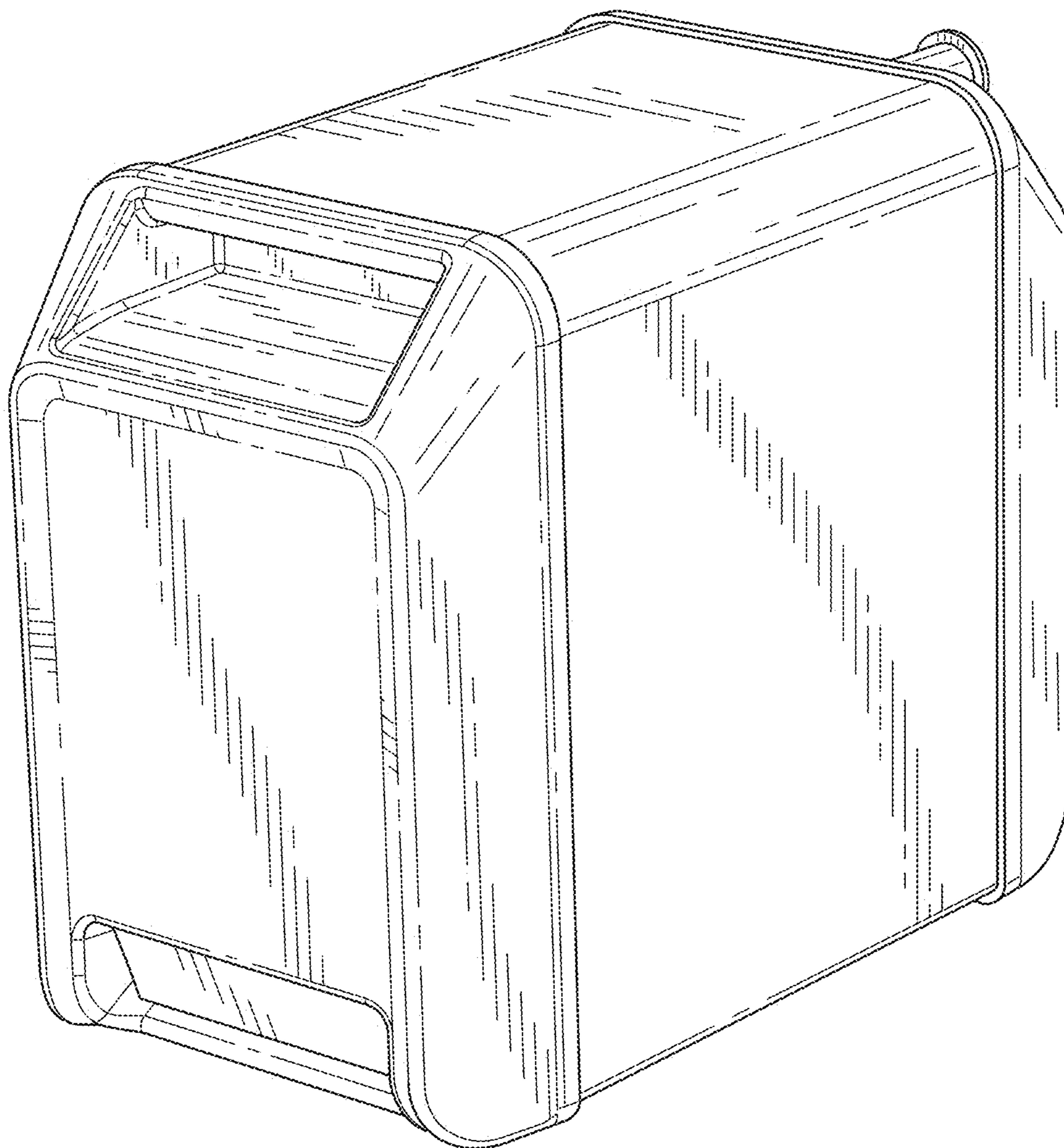


FIG. 2

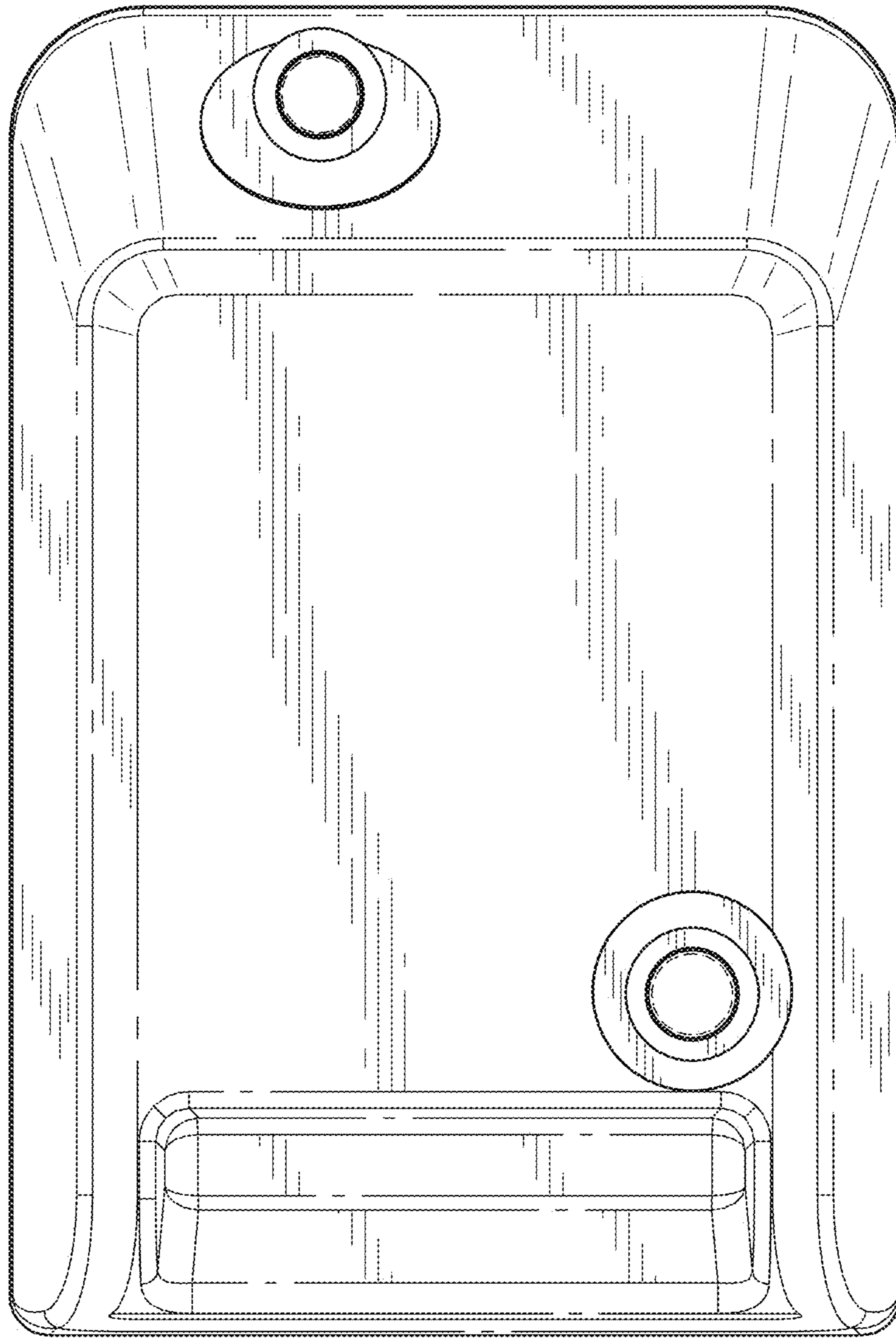


FIG. 3

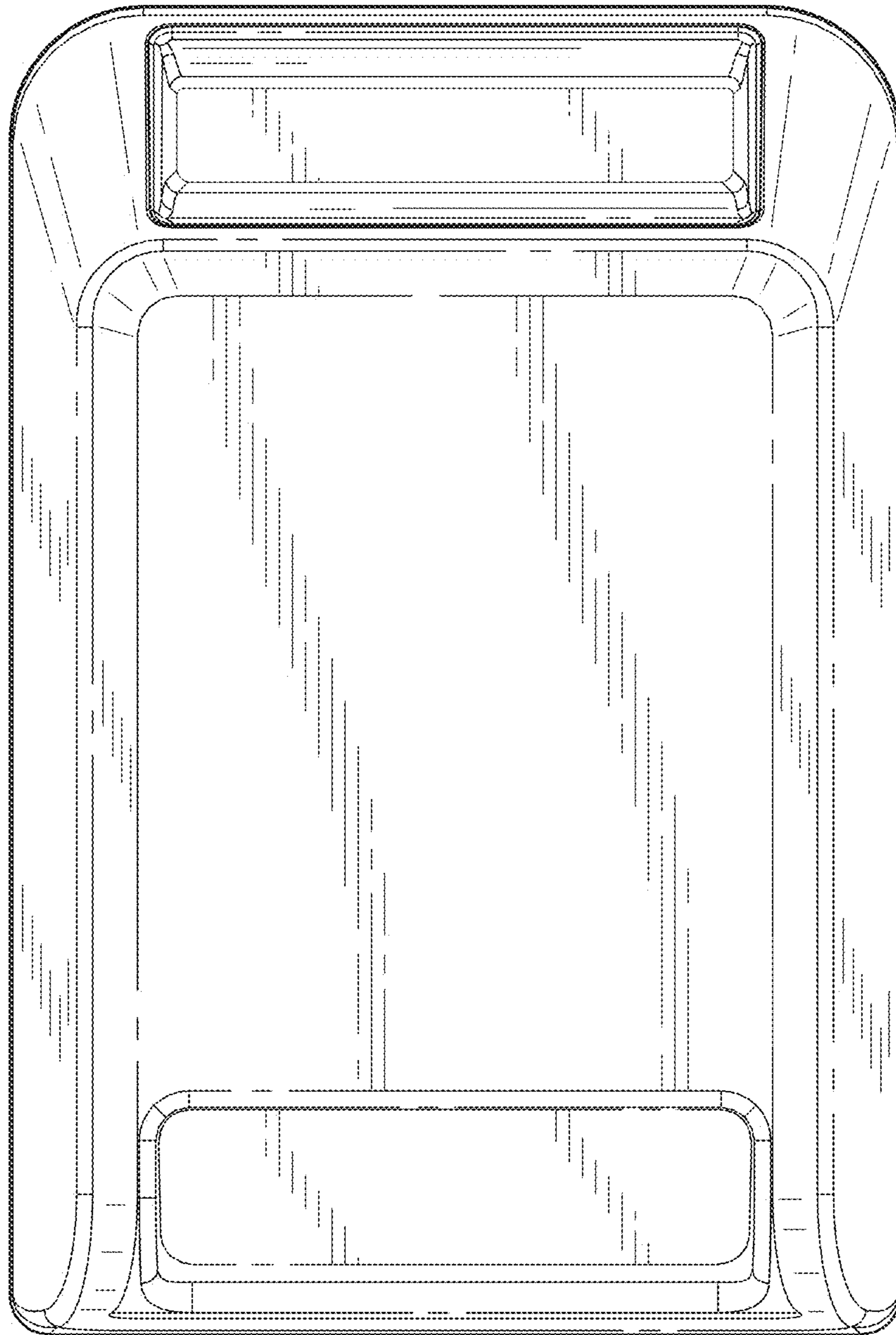


FIG. 4

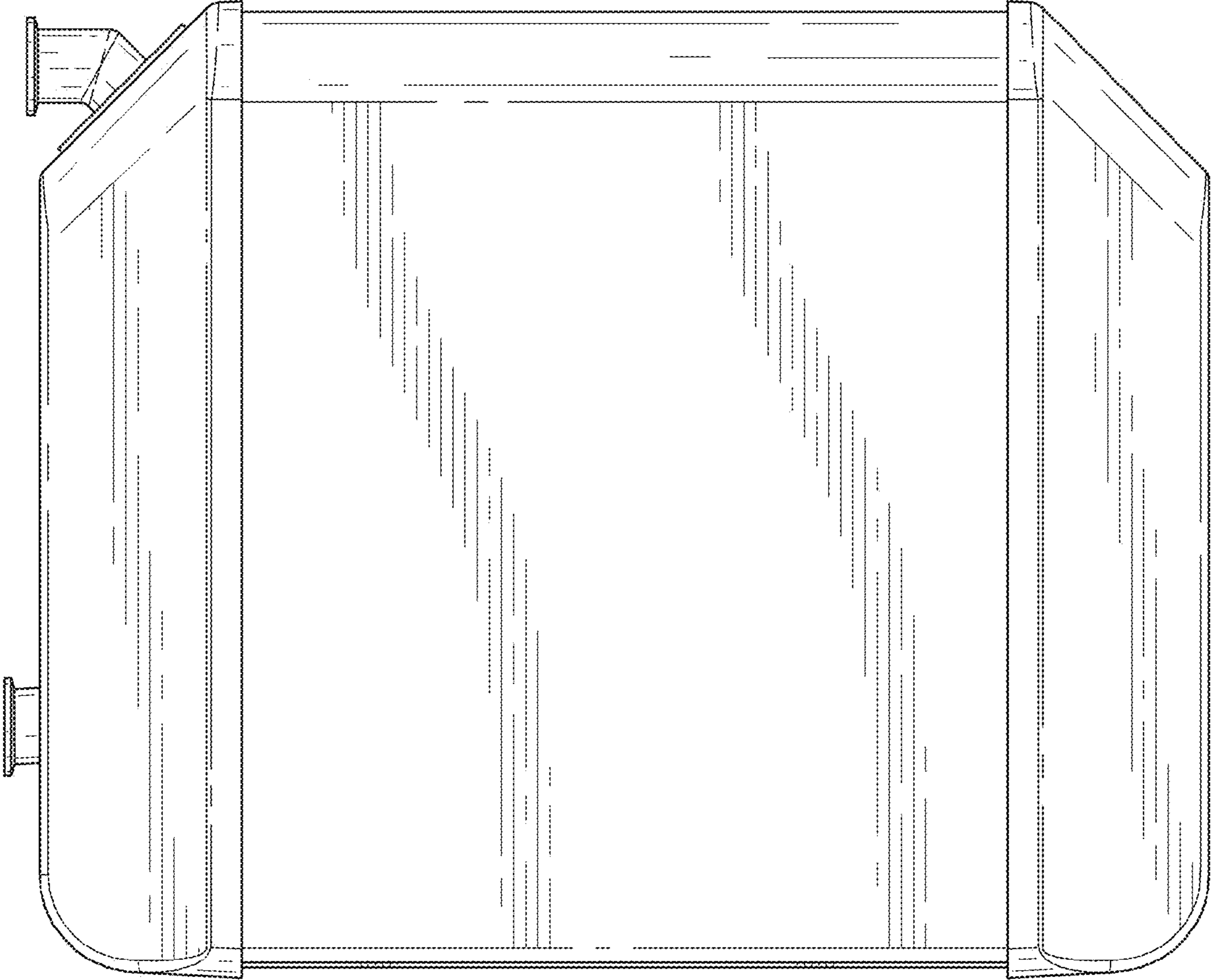


FIG. 5

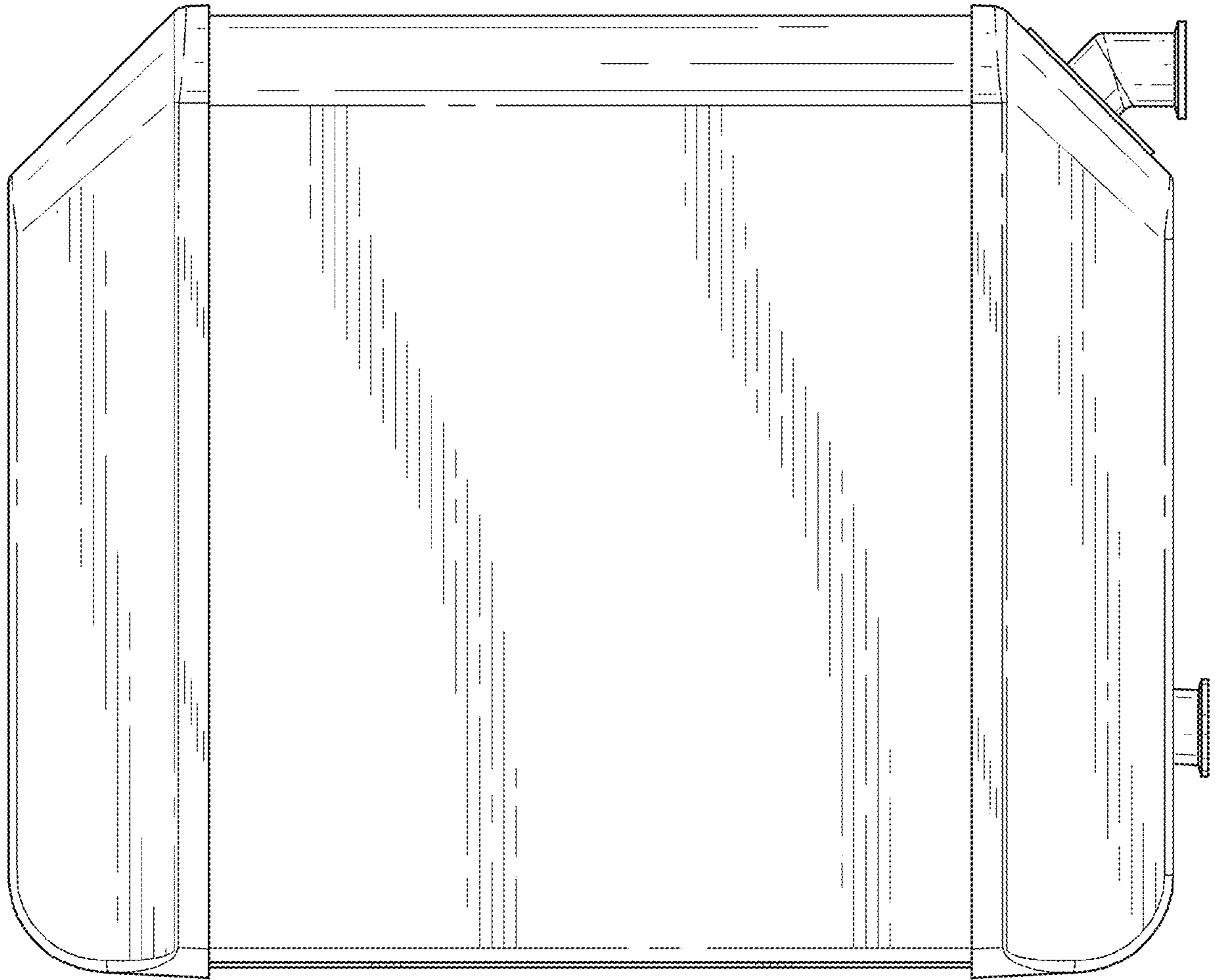


FIG. 6



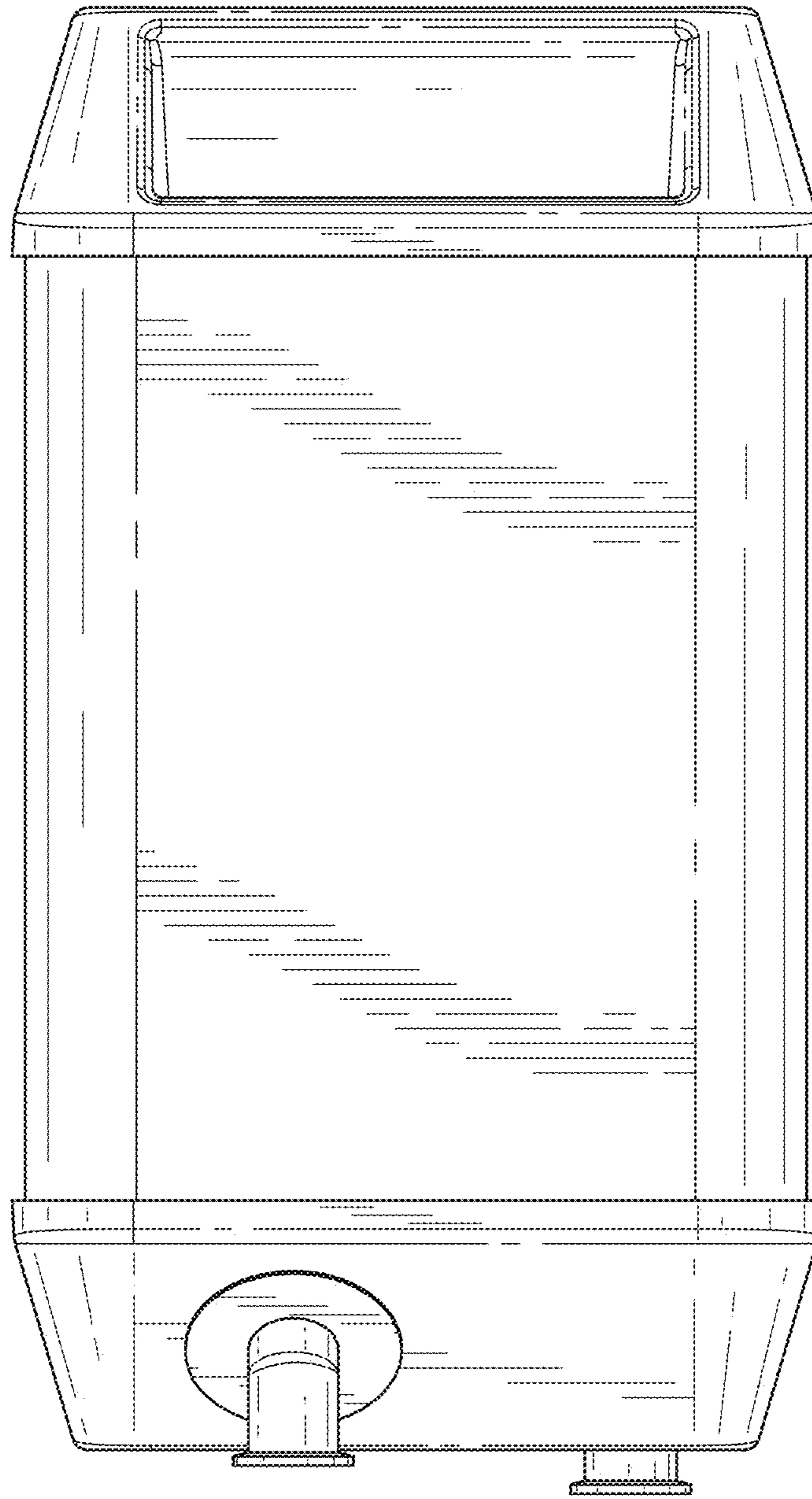


FIG. 7