



US00D913133S

(12) **United States Design Patent**  
**Brusseau et al.**

(10) **Patent No.:** **US D913,133 S**  
(45) **Date of Patent:** **\*\* Mar. 16, 2021**

(54) **TROUGH FOR HOLDING MATRIX FLUID  
IN A MASS SPECTROMETER APPARATUS**

(71) Applicant: **The Binding Site Group Limited,**  
Birmingham (GB)

(72) Inventors: **Sophie Brusseau,** Birmingham (GB);  
**Mark Perkins,** Birmingham (GB);  
**Simon North,** Birmingham (GB)

(\*\*) Term: **15 Years**

(21) Appl. No.: **35/508,068**

(22) Filed: **Oct. 4, 2019**

(80) **Hague Agreement Data**

Int. Filing Date: **Oct. 4, 2019**

Int. Reg. No.: **DM/204611**

Int. Reg. Date: **Oct. 4, 2019**

Int. Reg. Pub. Date: **Dec. 13, 2019**

(51) **LOC (13) Cl.** ..... **10-04**

(52) **U.S. Cl.**  
USPC ..... **D10/103**

(58) **Field of Classification Search**  
USPC ..... D10/80, 103; D11/155, 156, 143;  
D24/225

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D312,983 S \* 12/1990 Powell ..... D11/143  
D344,139 S \* 2/1994 Spurr ..... D24/225

D359,013 S \* 6/1995 Carlson ..... D11/156  
D397,958 S \* 9/1998 Ruthenberg ..... D11/156  
D655,221 S \* 3/2012 Adams ..... D11/155  
D676,355 S \* 2/2013 Williamsen ..... D11/156  
D740,716 S \* 10/2015 Fenn ..... D11/156  
D800,600 S \* 10/2017 Fenn ..... D11/156  
D830,892 S \* 10/2018 Itzhak-Sigrón ..... D11/155

\* cited by examiner

*Primary Examiner* — George D. Kirschbaum

(57) **CLAIM**

The ornamental design for a trough for holding matrix fluid  
in a mass spectrometer apparatus, as shown and described.

**DESCRIPTION**

1. Trough for holding matrix fluid in a mass spectrometer  
apparatus

1.1 is a front perspective view.

1.2 is a top view.

1.3 is a front view.

1.4 is a bottom view.

1.5 is a rear view.

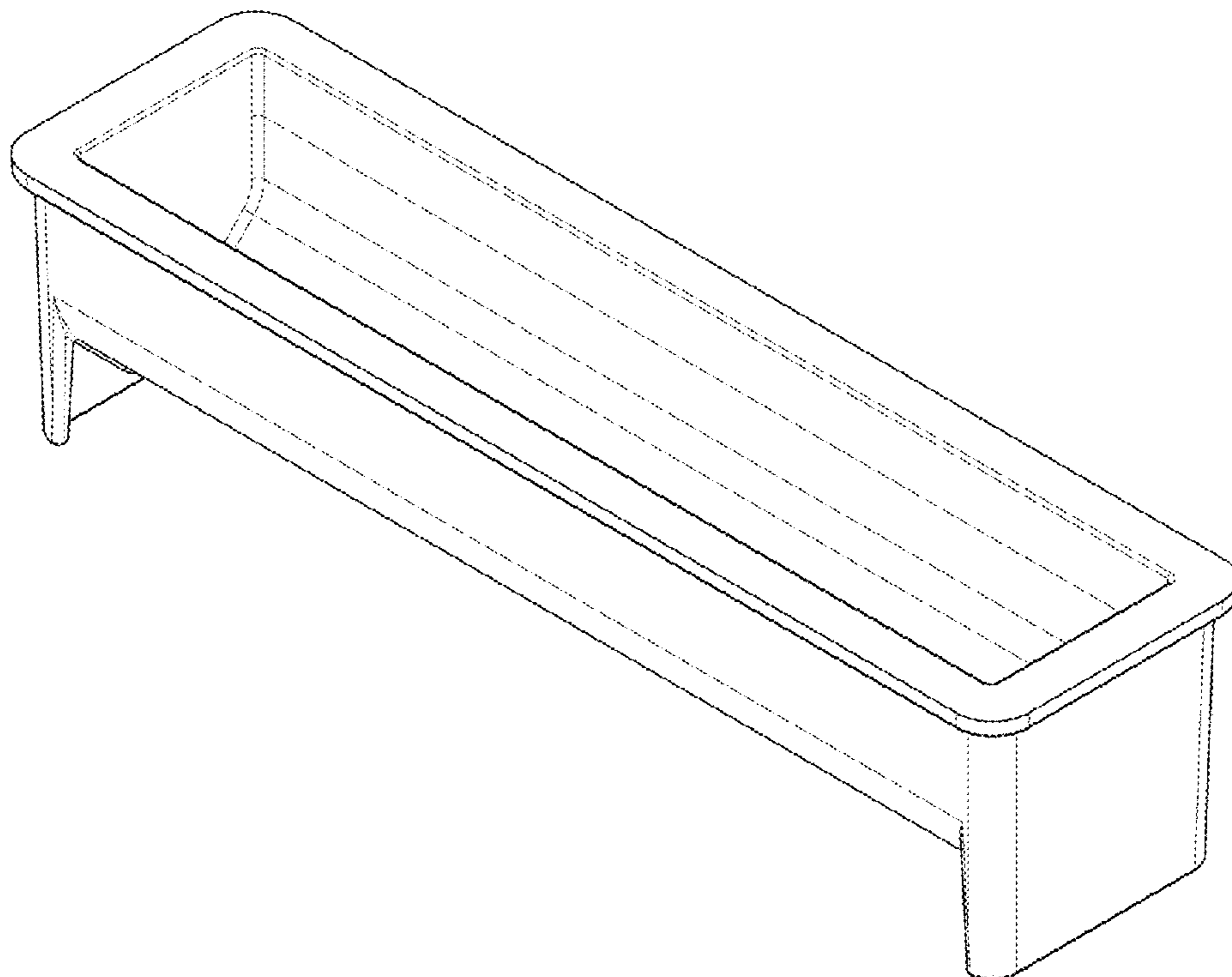
1.6 is a bottom perspective view.

1.7 is a left side view.

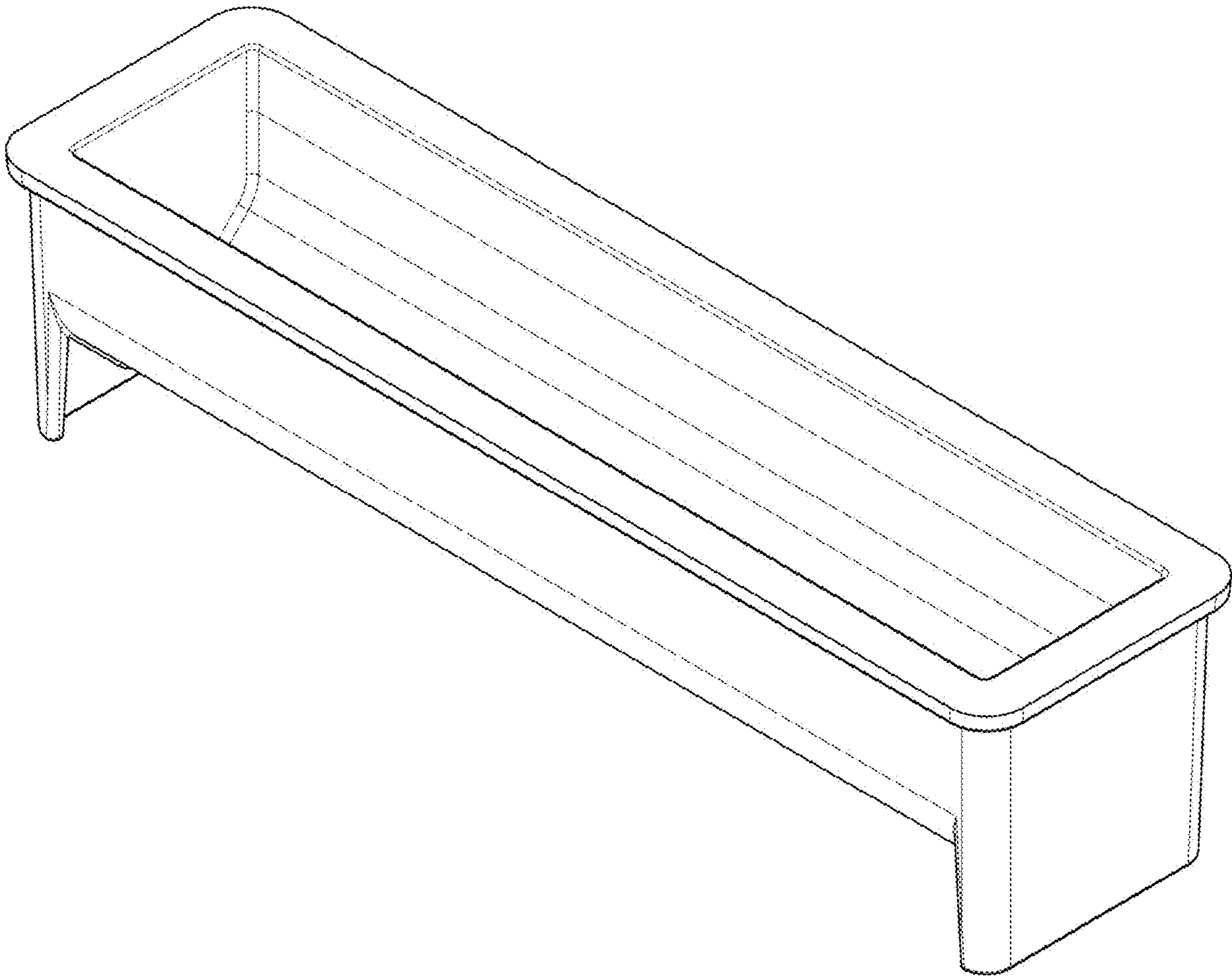
1.8 is a right side view.

1.9 is a cross-sectional view.

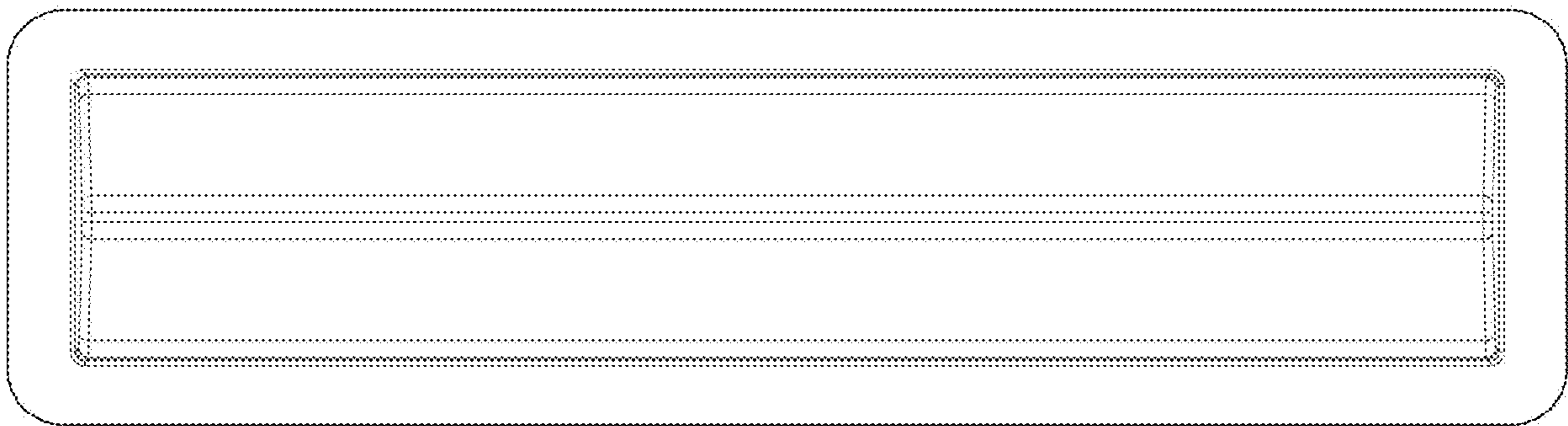
**1 Claim, 9 Drawing Sheets**



1.1



1.2



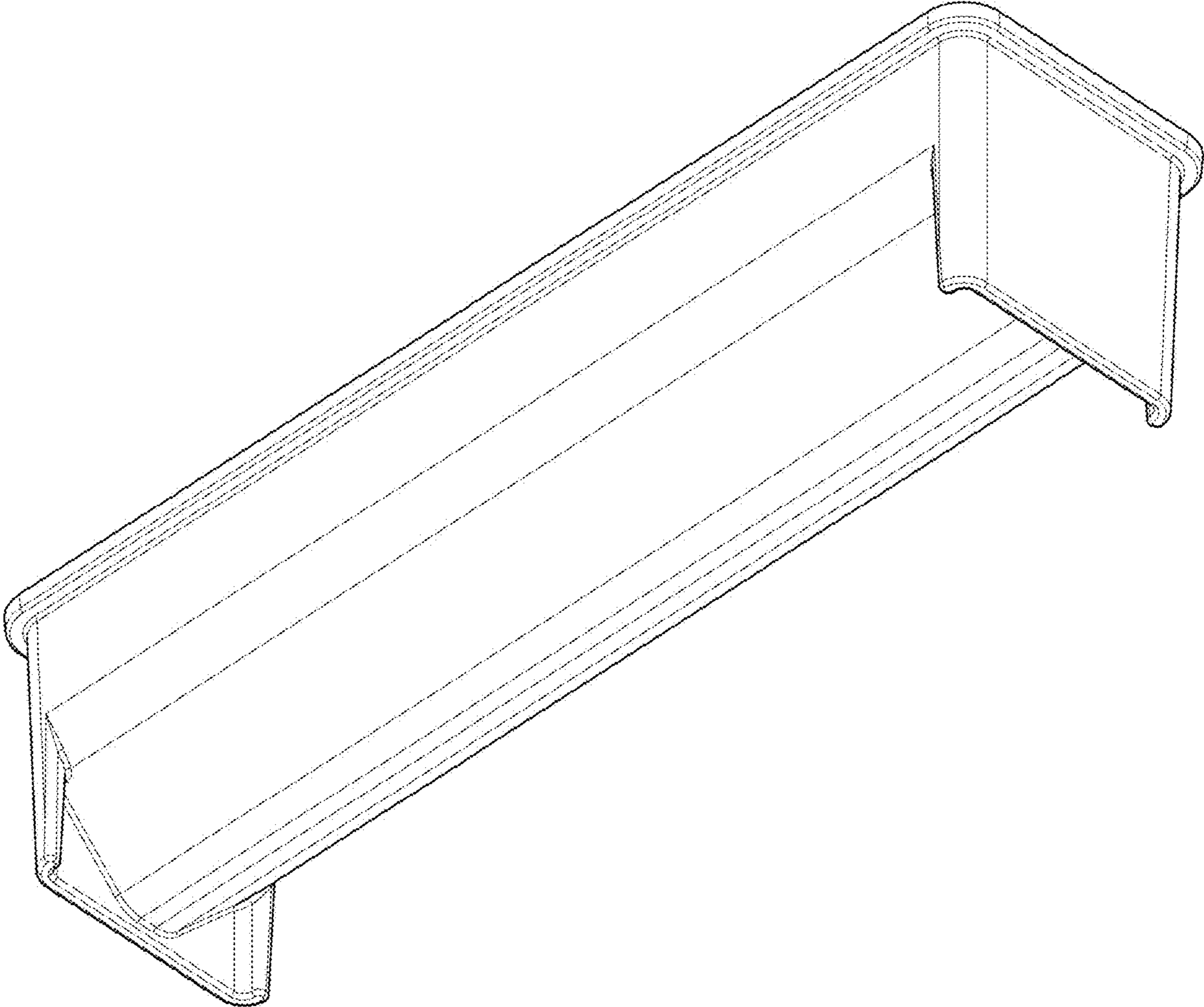


1.4

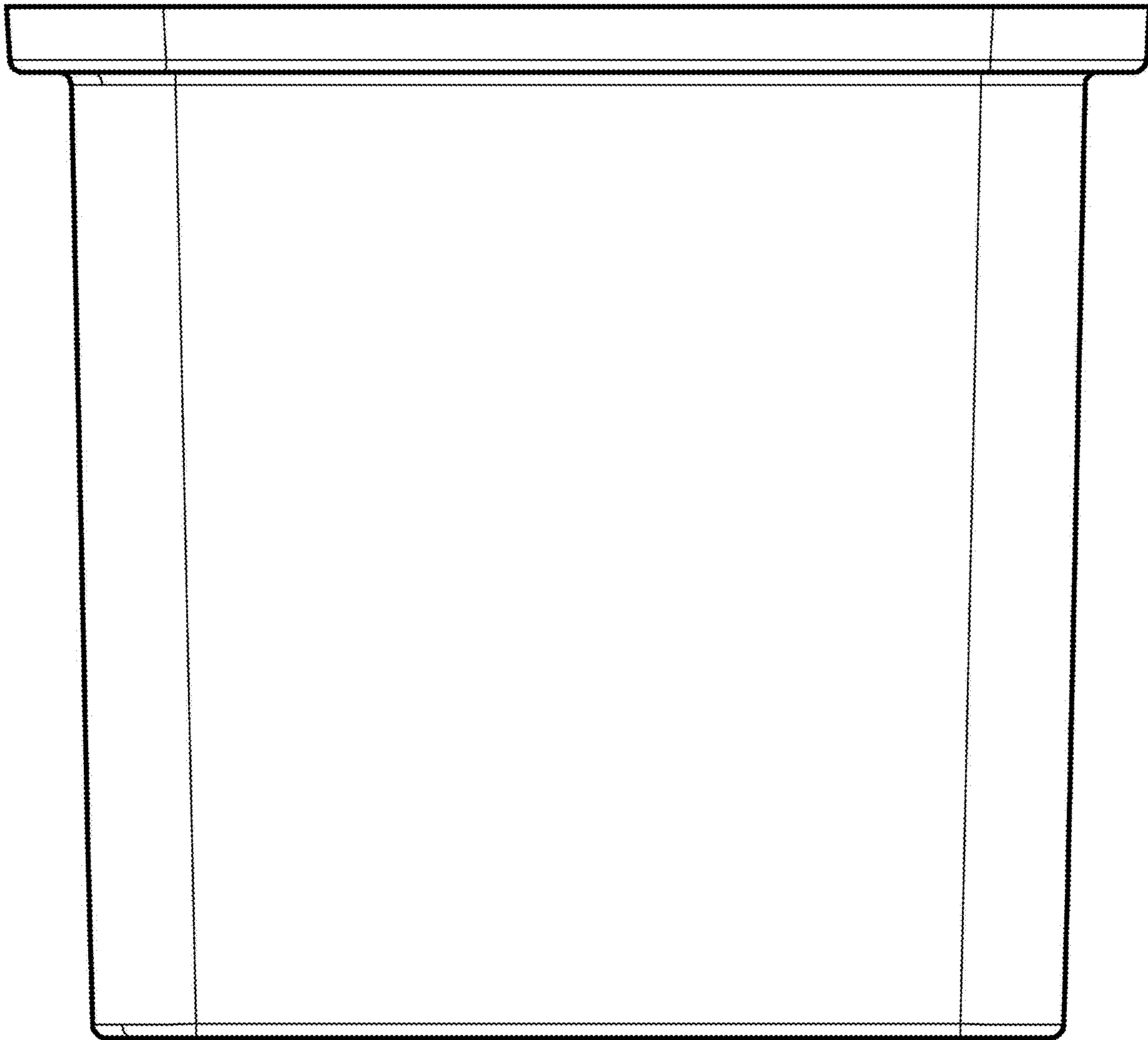




1.6



1.7





1.8

