

US00D415181S

Des. 415,181

United States Patent [19]

Rogers et al.

[11]

[45]

Patent Number:

[54]	HYDROCYCLONE FEED ASSEMBLY HOUSING LINER		
[75]	Inventors: Brian Leslie Rogers, Woronora Heights; Michael Arthur West, French Forest, both of Australia		
[73]	Assignee:	War Aust	man International Limited, ralia
[**]	Term:	14 Y	ears
[21]	Appl. No.:	29/09	91,735
[22]	Filed:	Aug.	5, 1998
	LOC (6) Cl		
[56] References Cited			
U.S. PATENT DOCUMENTS			
	•		Baxter, Jr

Attorney, Agent, or Firm—Cesari and McKenna, LLP

[57] CLAIM

The ornamental design for a hydrocyclone feed assembly housing liner, as shown.

Date of Patent: ** Oct. 12, 1999

DESCRIPTION

FIG. 1 is a perspective view from above of a hydrocyclone feed assembly housing liner showing the new design;

FIG. 2 is a perspective view from below thereof on a slightly smaller scale;

FIG. 3 is a top plan view of the FIG. 1 liner;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is an elevational view of a first side thereof;

FIG. 6 is an elevational view of a second side thereof;

FIG. 7 is an elevational view of a third side thereof;

FIG. 8 is an elevational view of a fourth side thereof;

FIG. 9 is a view similar to FIG. 1 of a second embodiment of our hydrocyclone feed assembly housing liner design;

FIG. 10 is a view similar to FIG. 2 thereof;

FIG. 11 is a top plan view of the FIG. 9 liner;

FIG. 12 is a bottom plan view thereof;

FIG. 13 is an elevational view of a first side thereof;

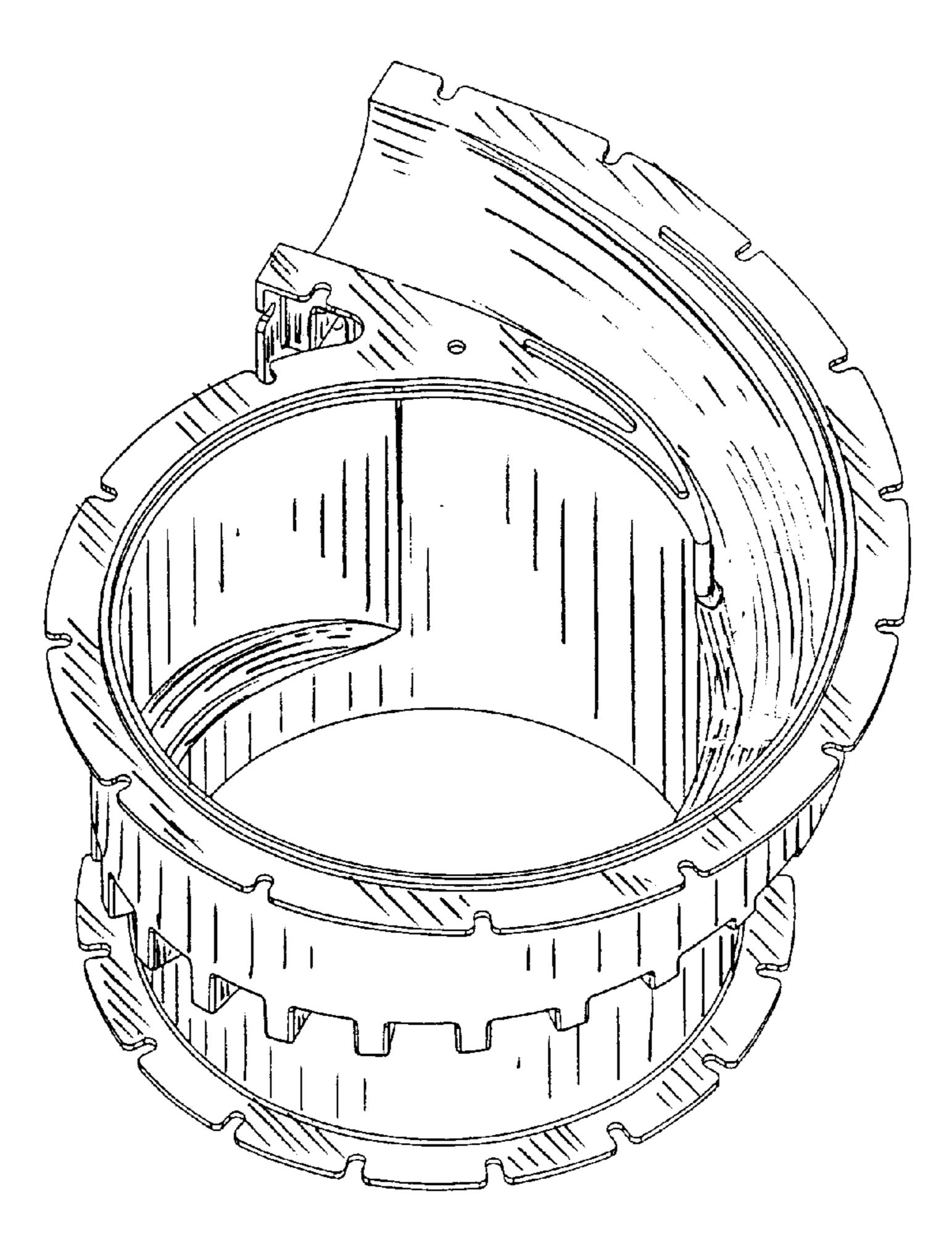
FIG. 14 is an elevational view of a second side thereof;

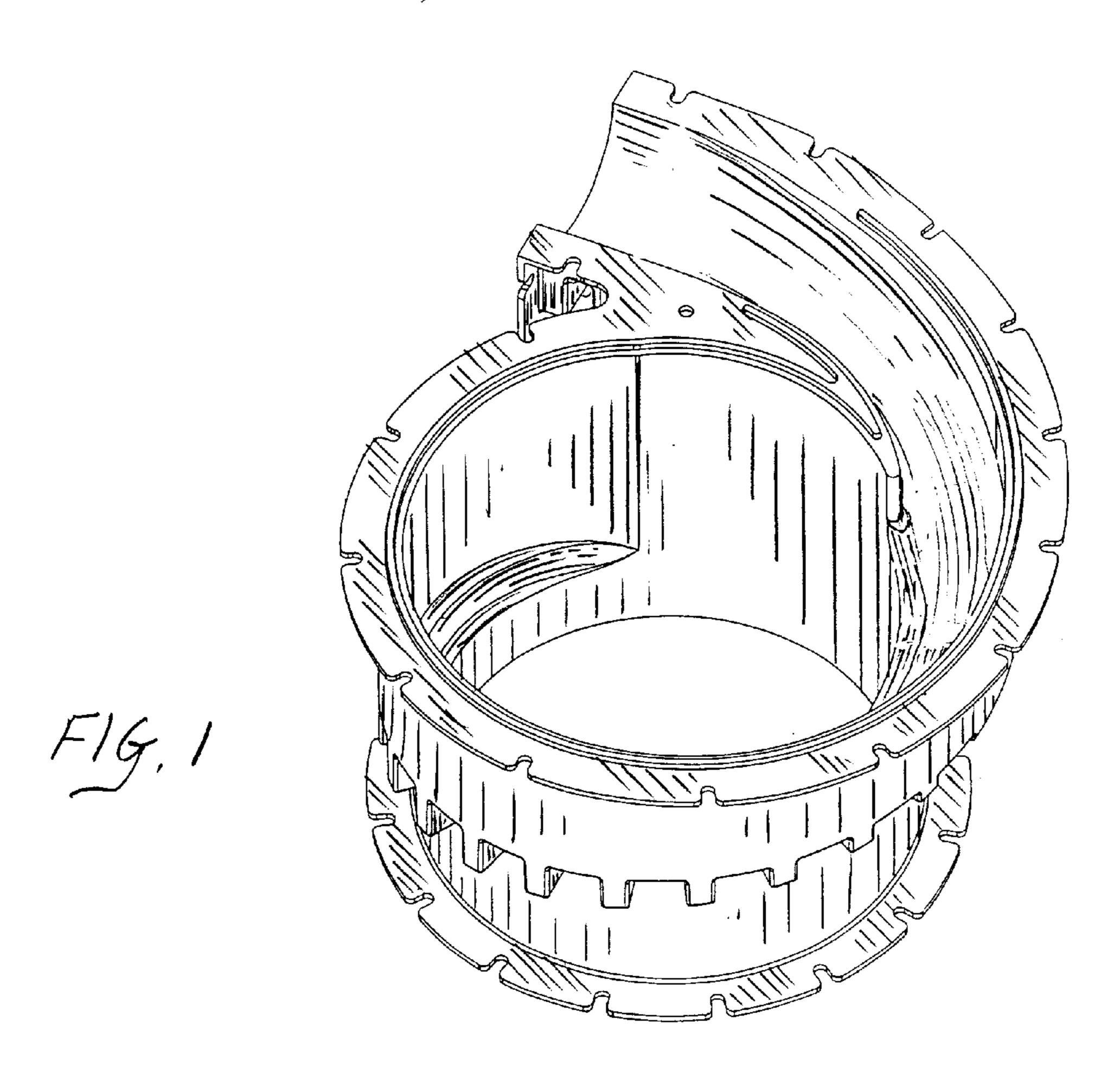
FIG. 15 is an elevational view of a third side thereof, and,

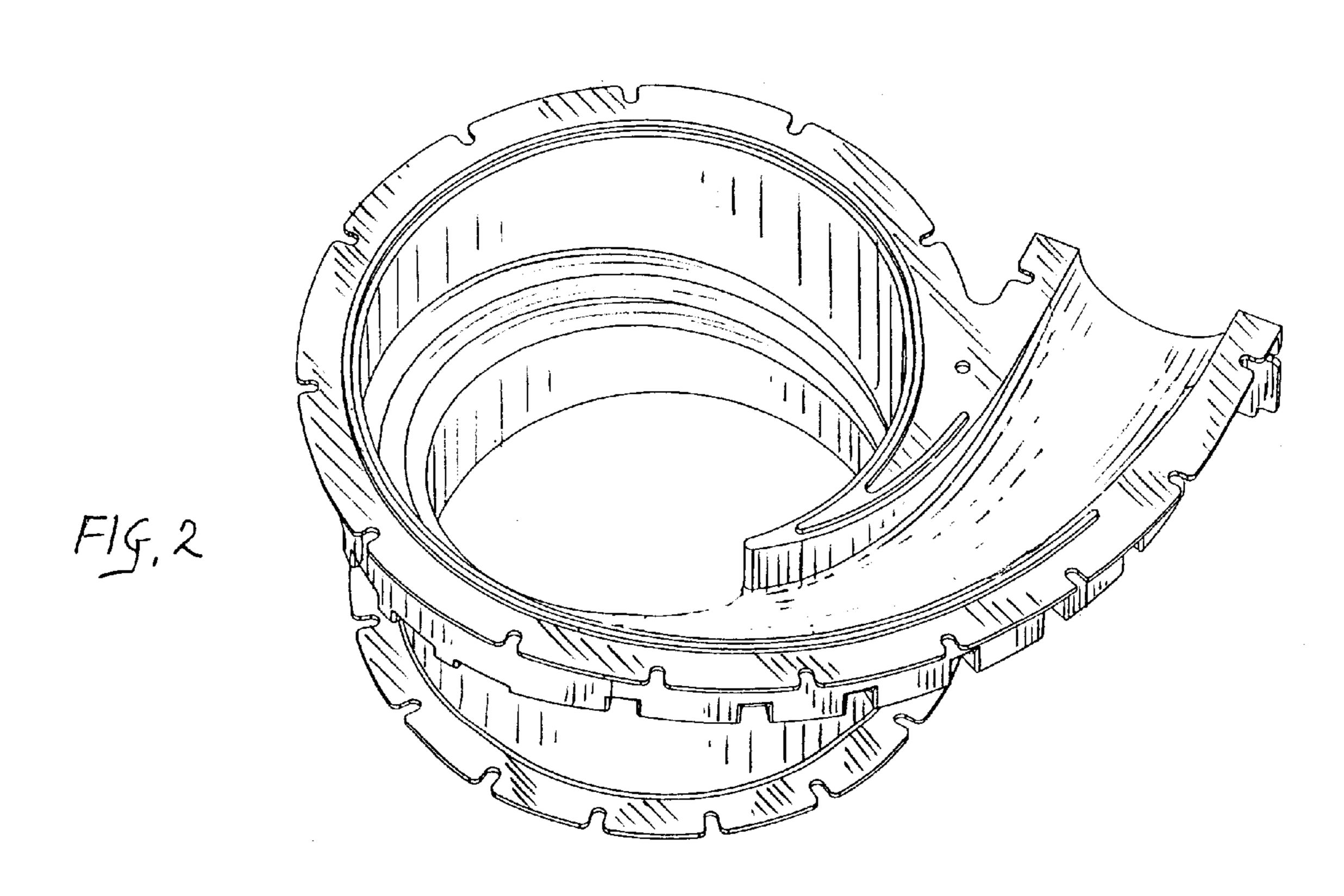
FIG. 16 is an elevational view of a fourth side thereof.

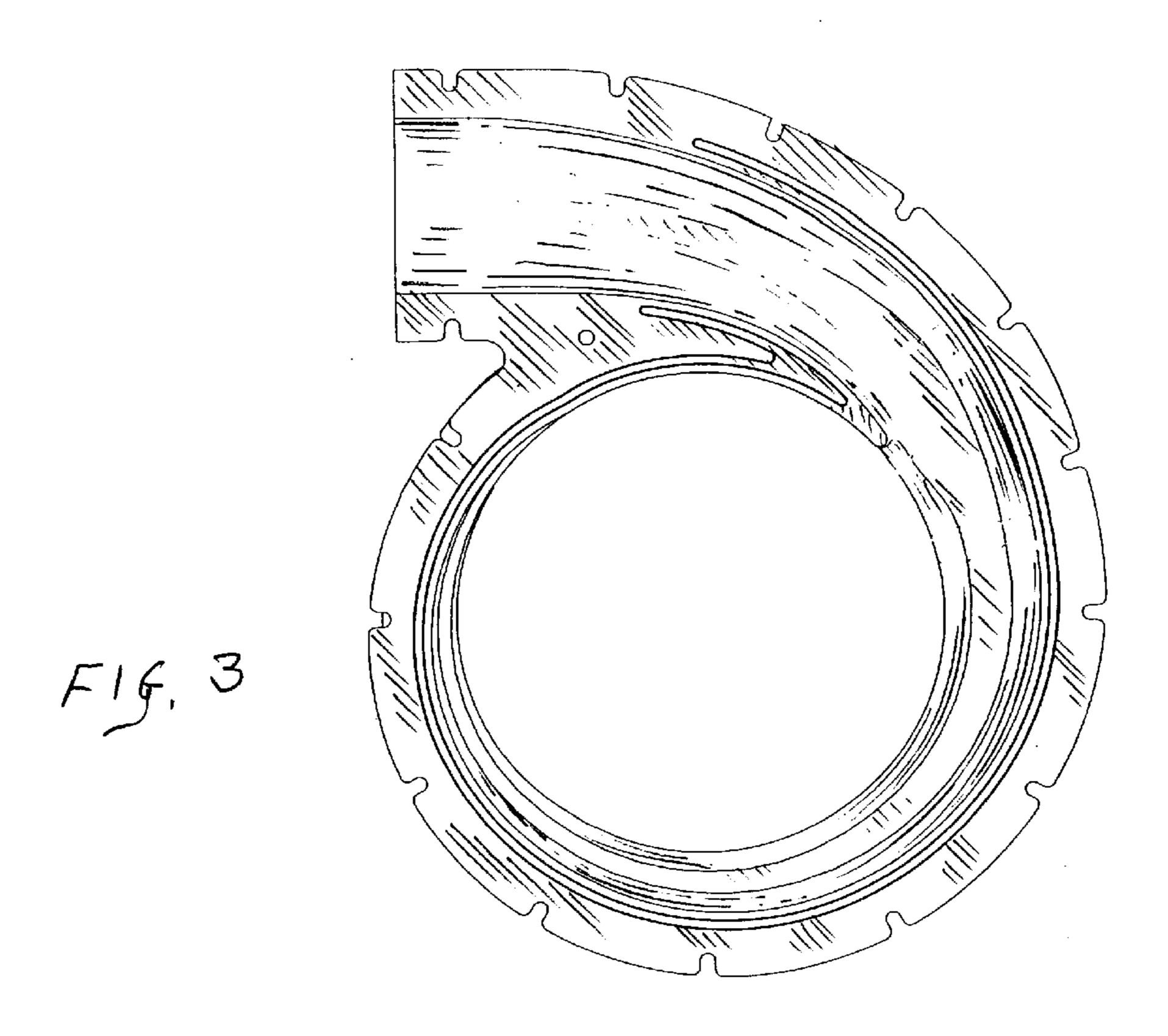
Primary Examiner—Antoine Duval Davis

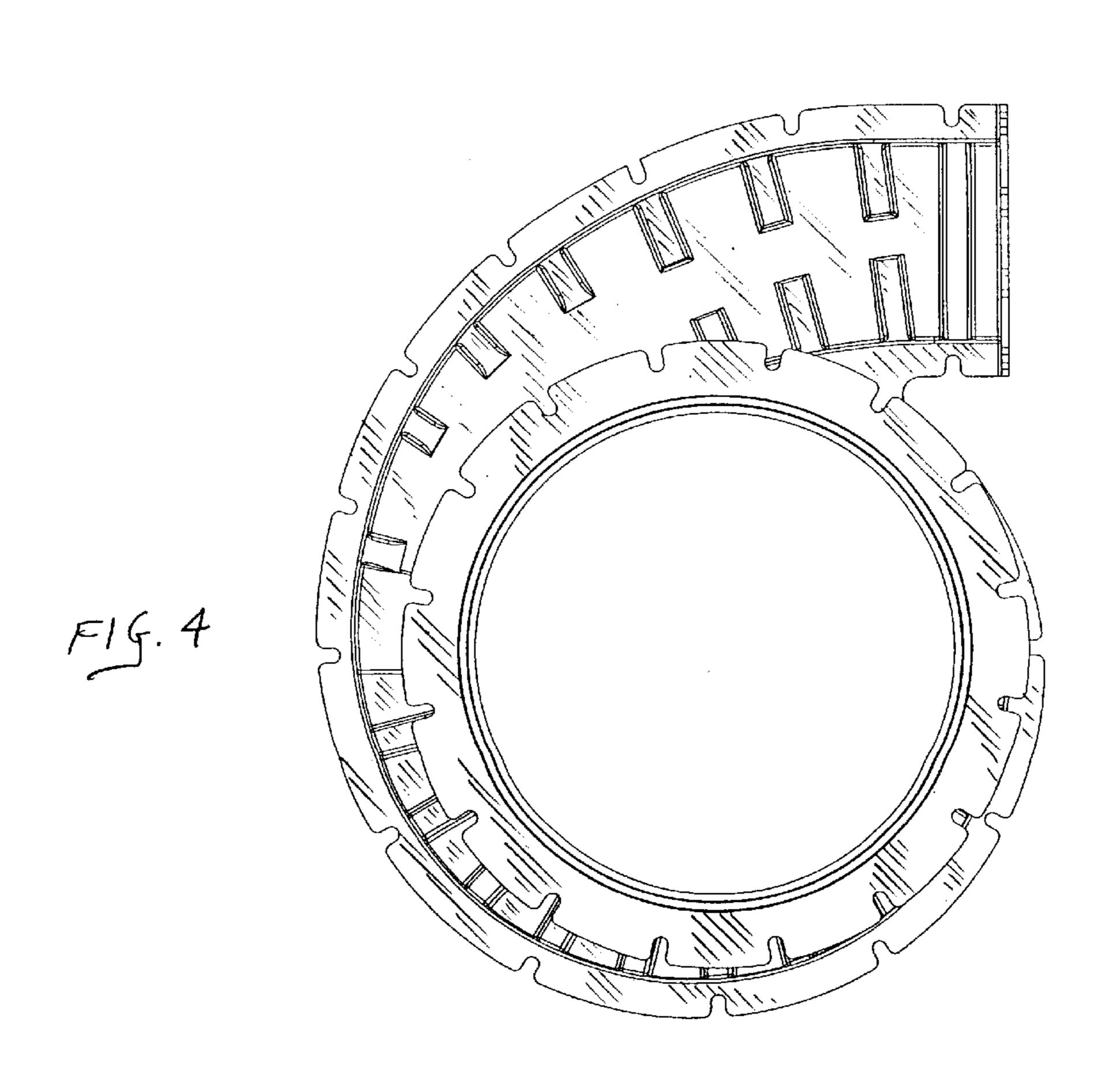
1 Claim, 8 Drawing Sheets

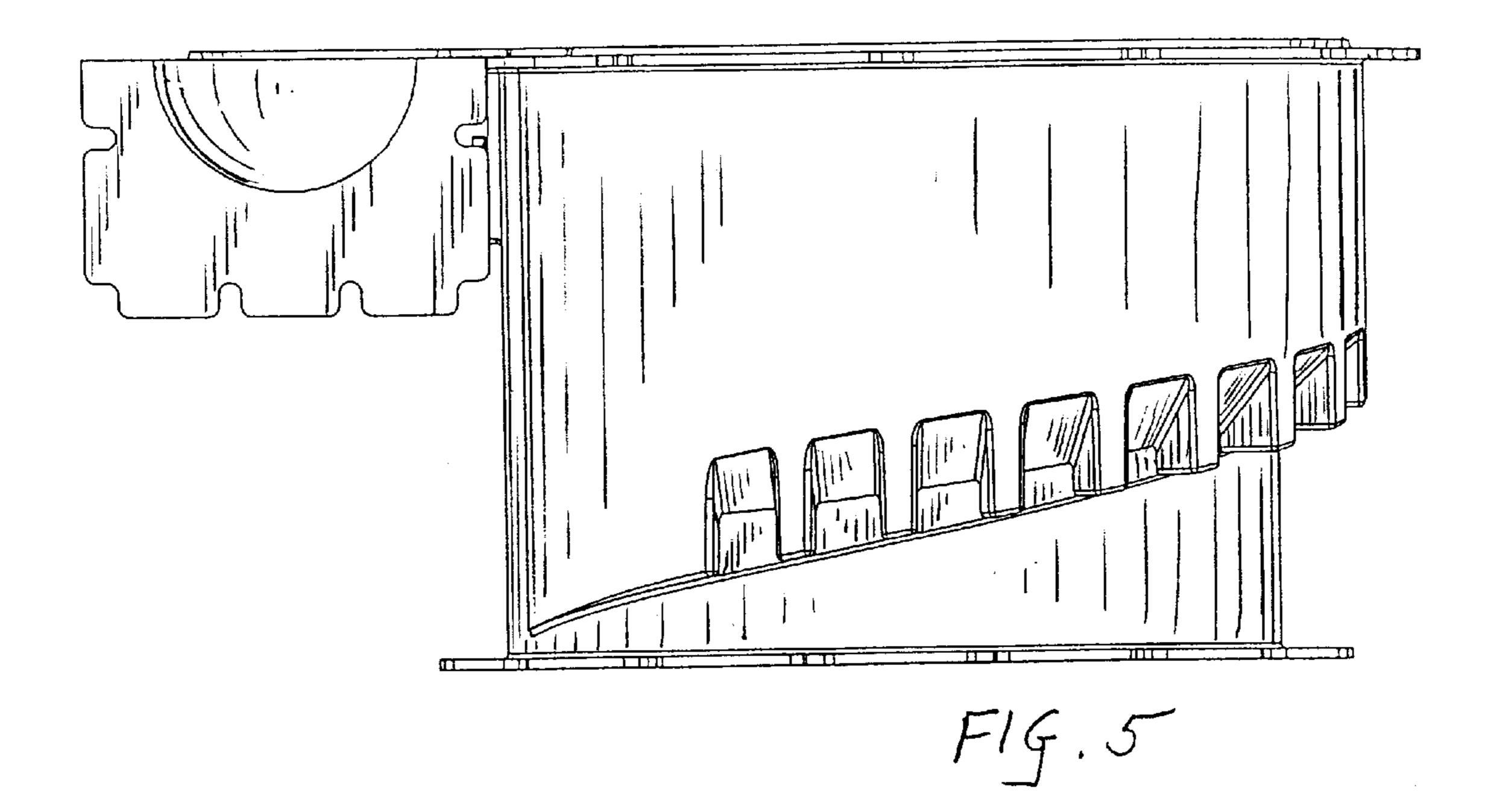


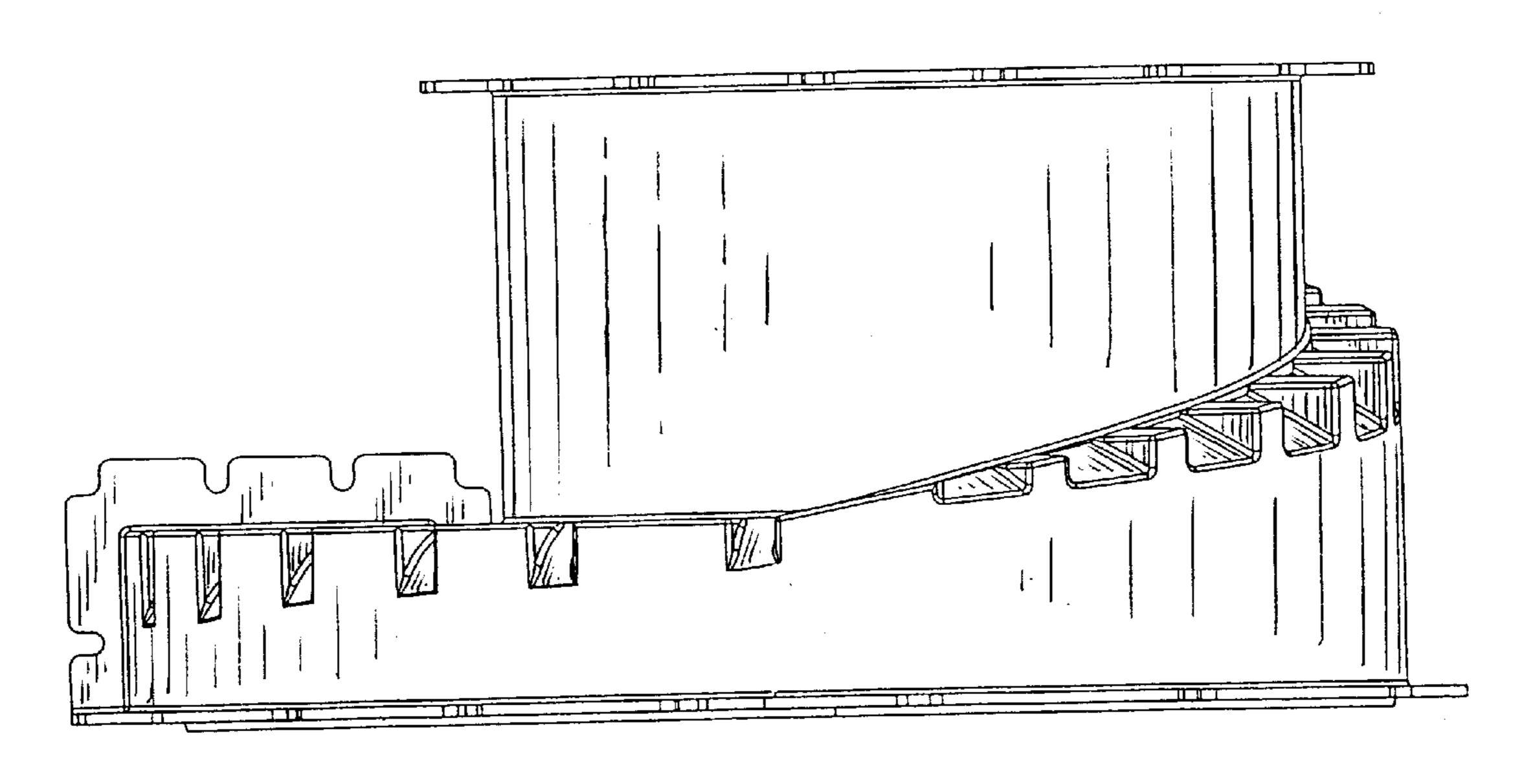




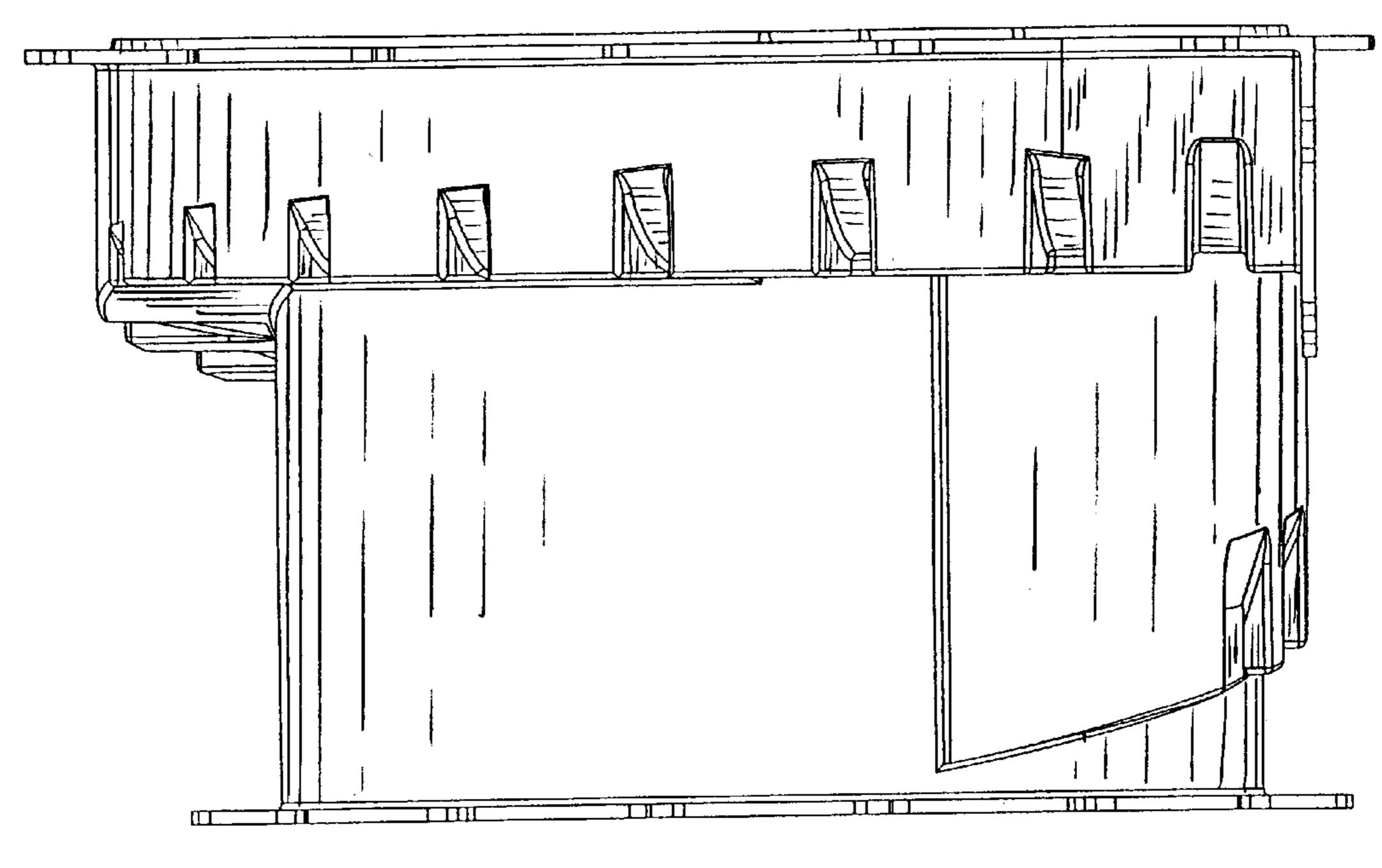




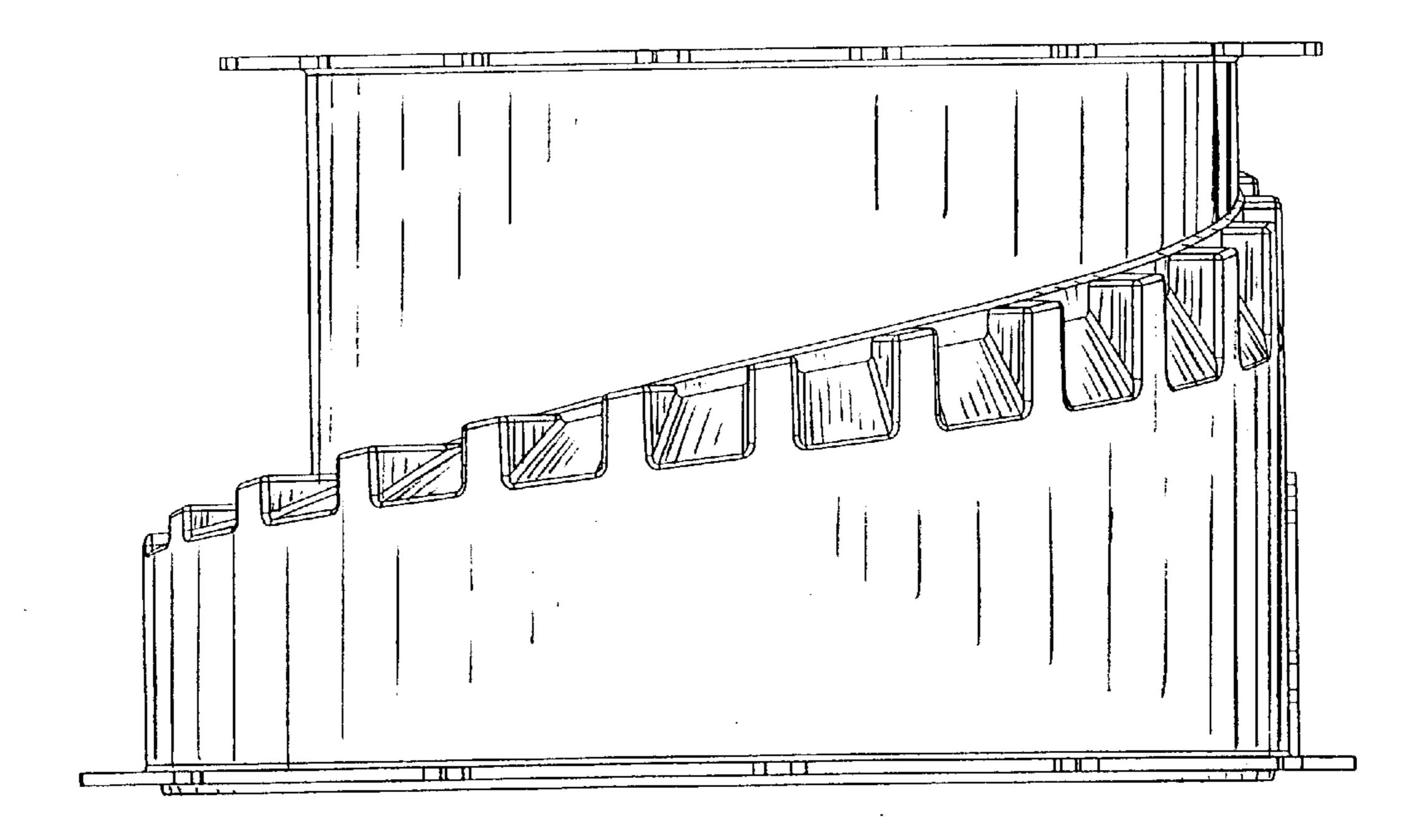




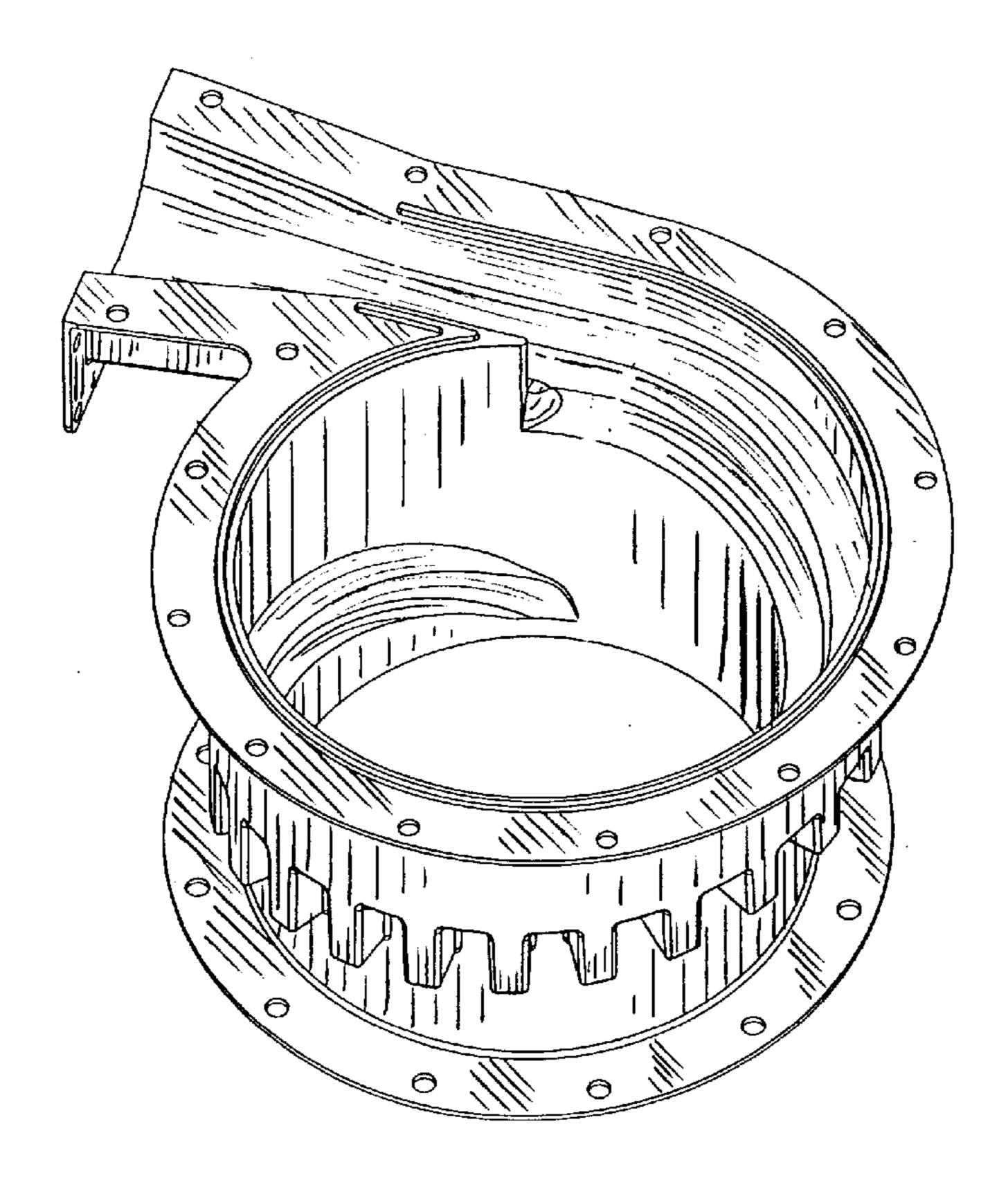
F16,6



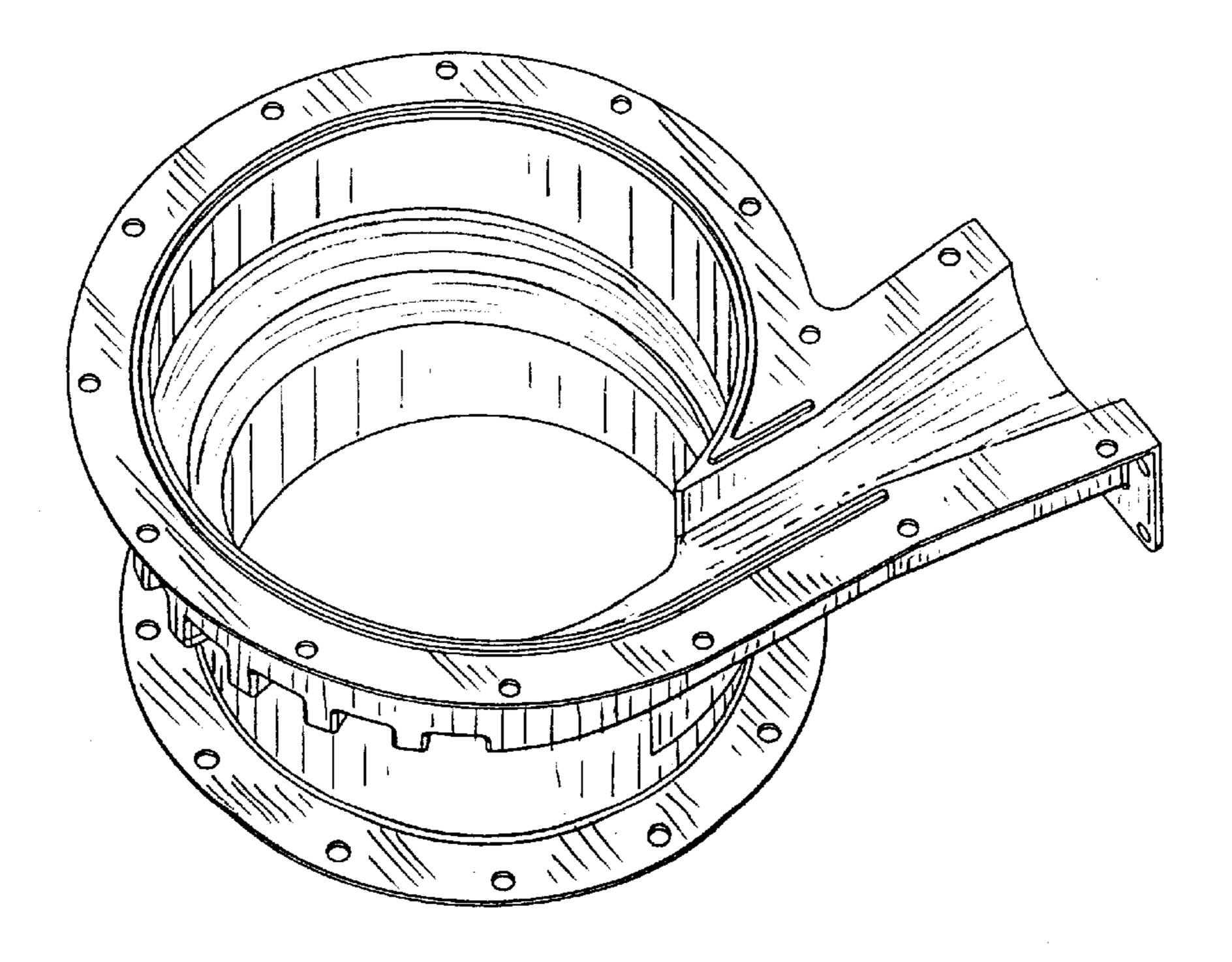
F19.7



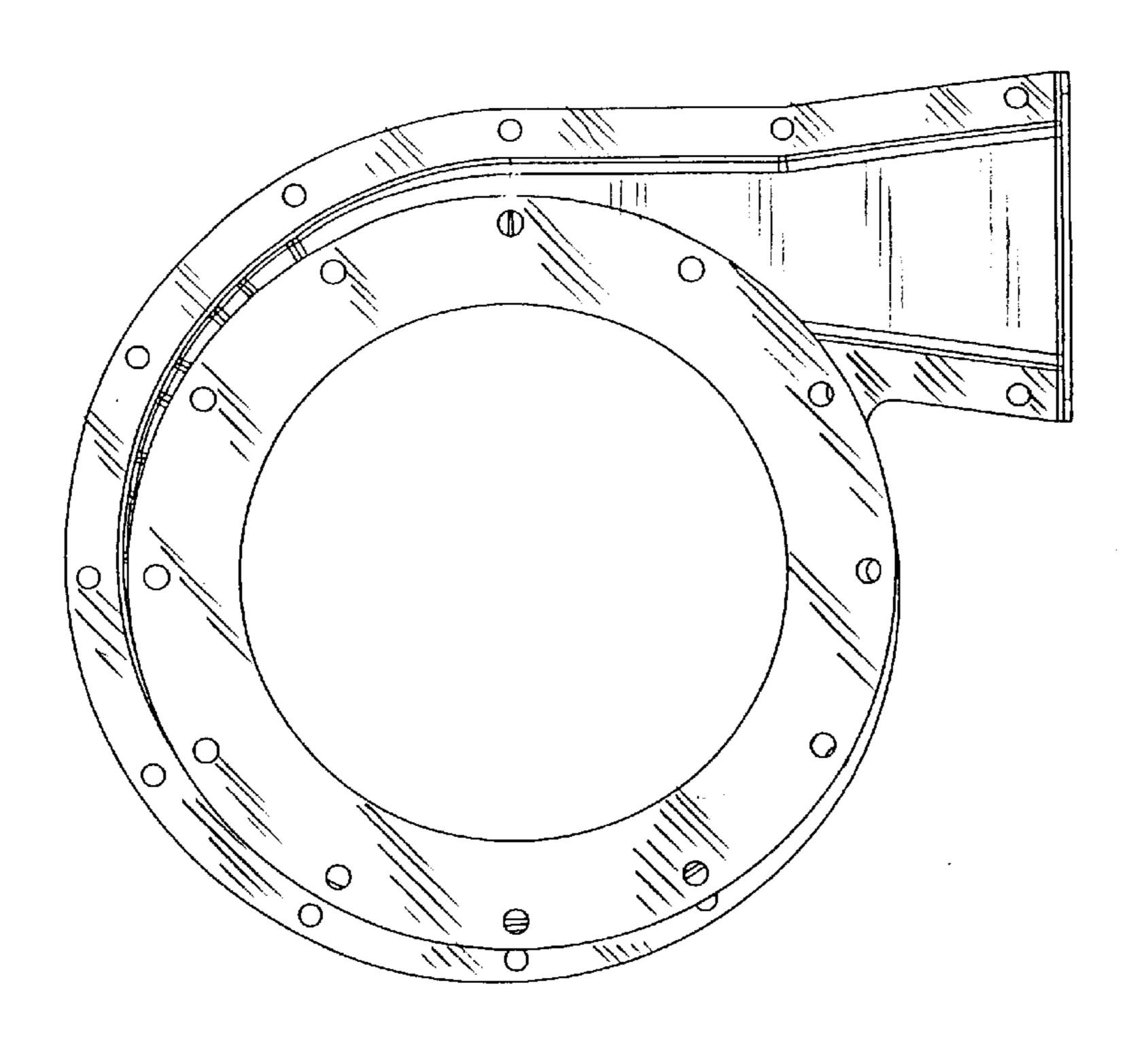
F14.8



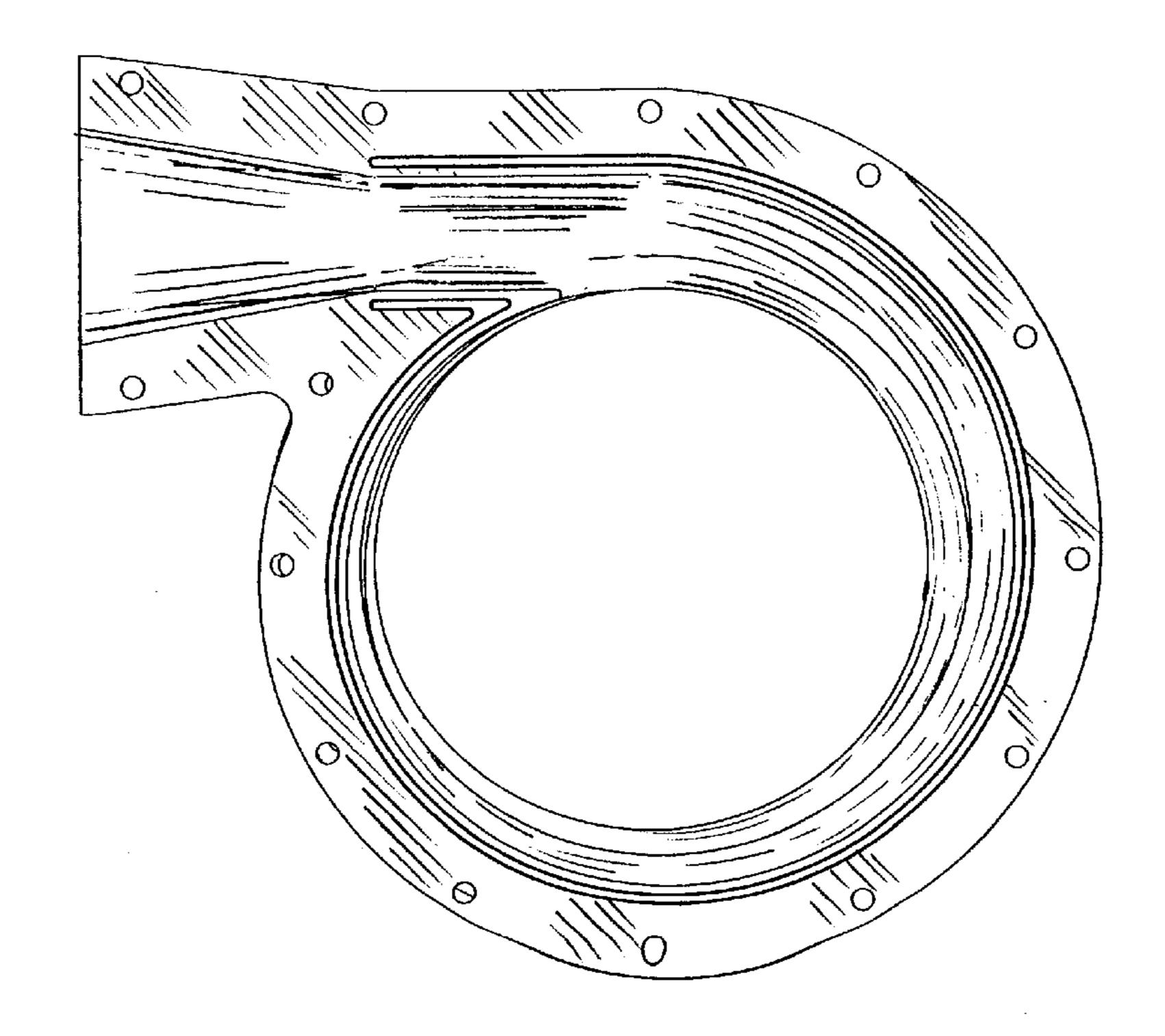
Oct. 12, 1999



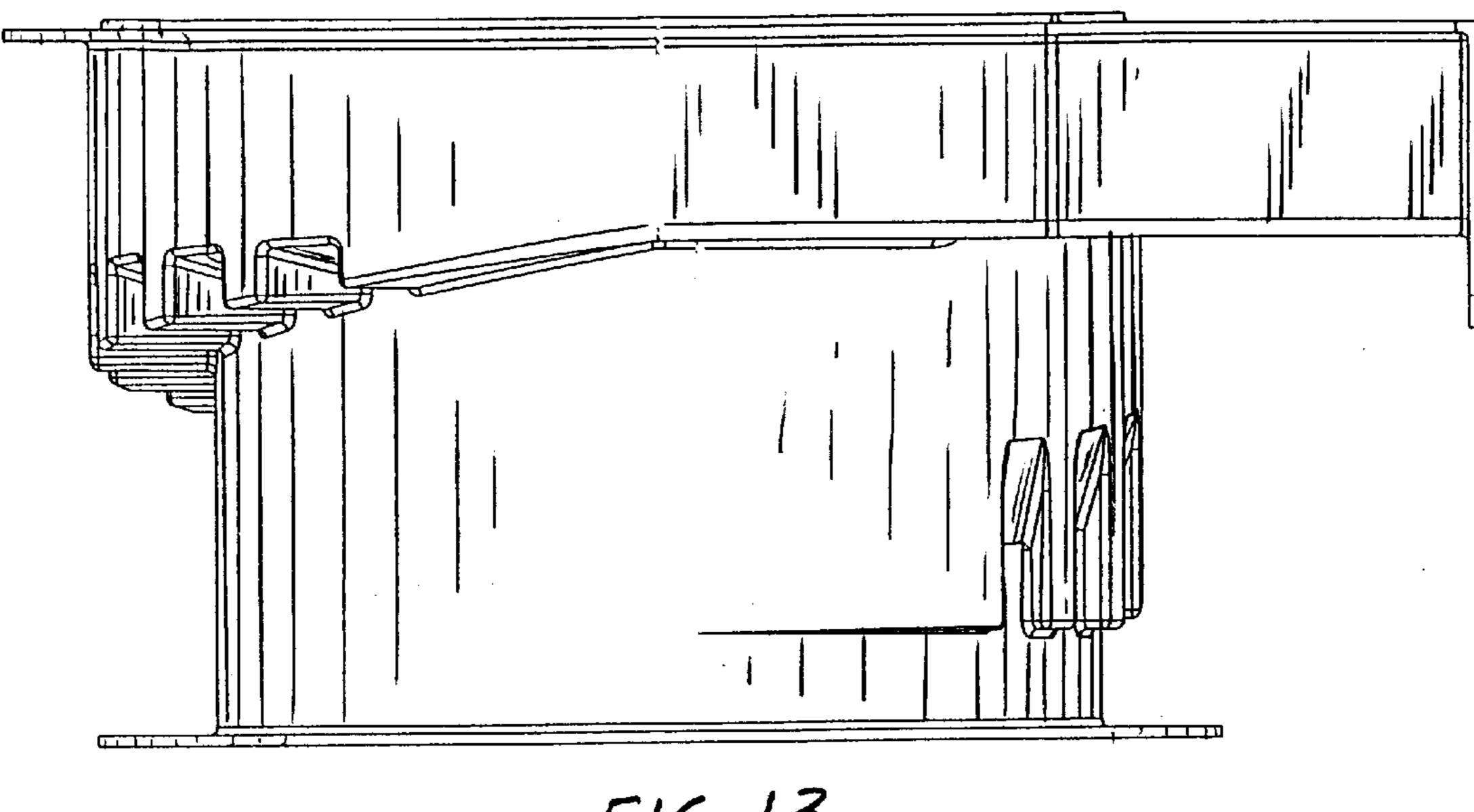
F1G.10



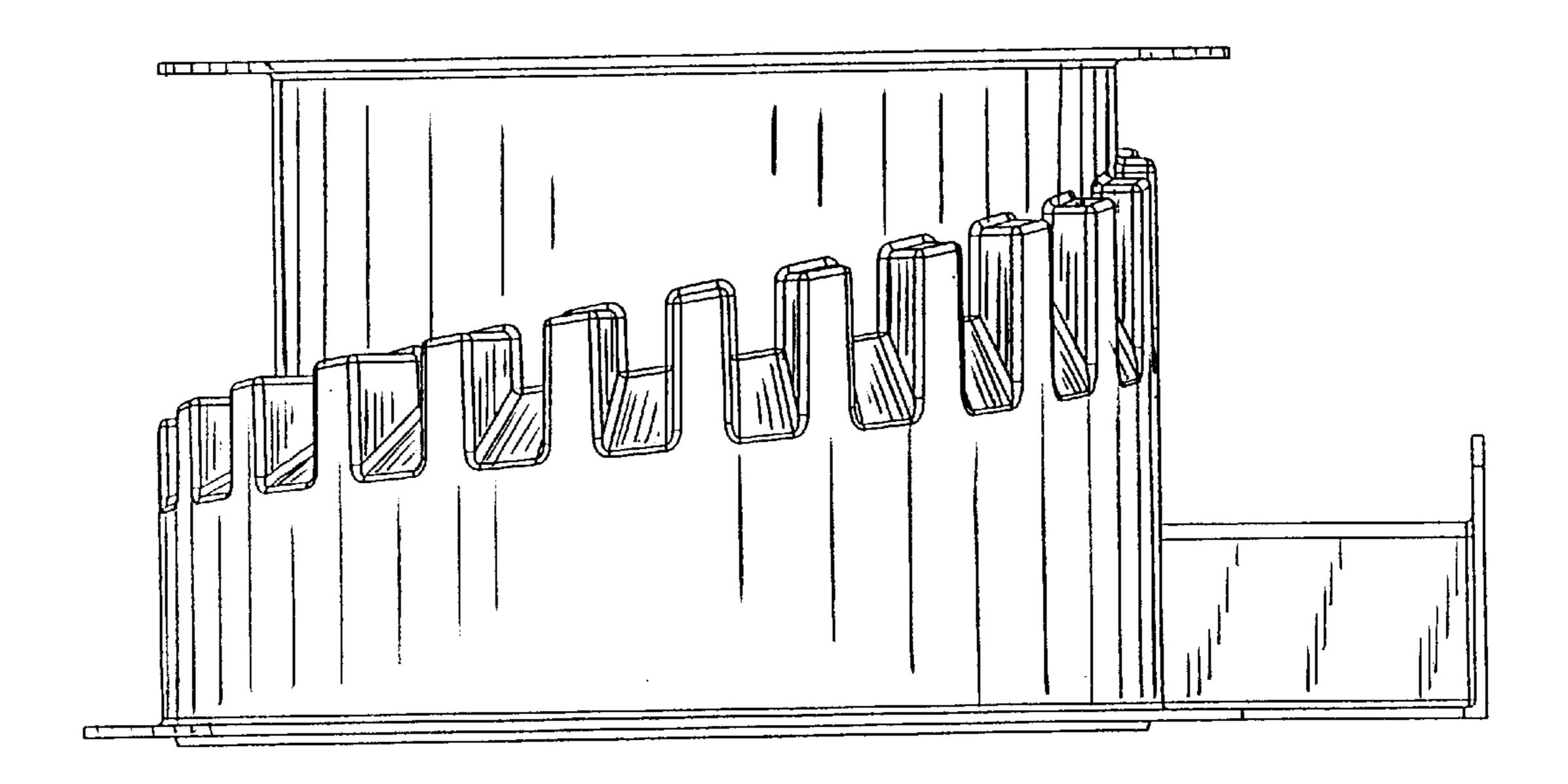
F1G. 11



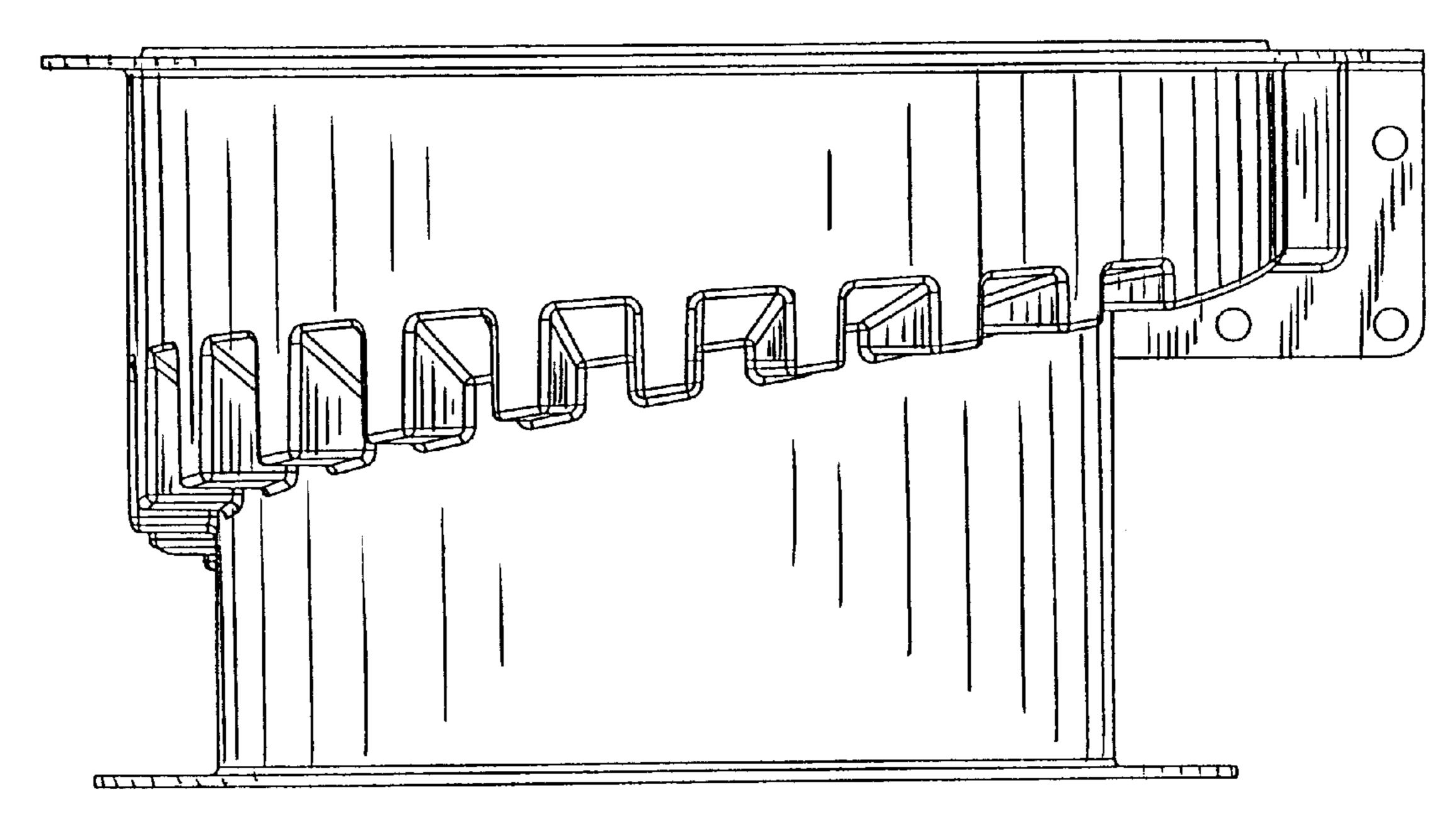
F16, 12



F14. 13

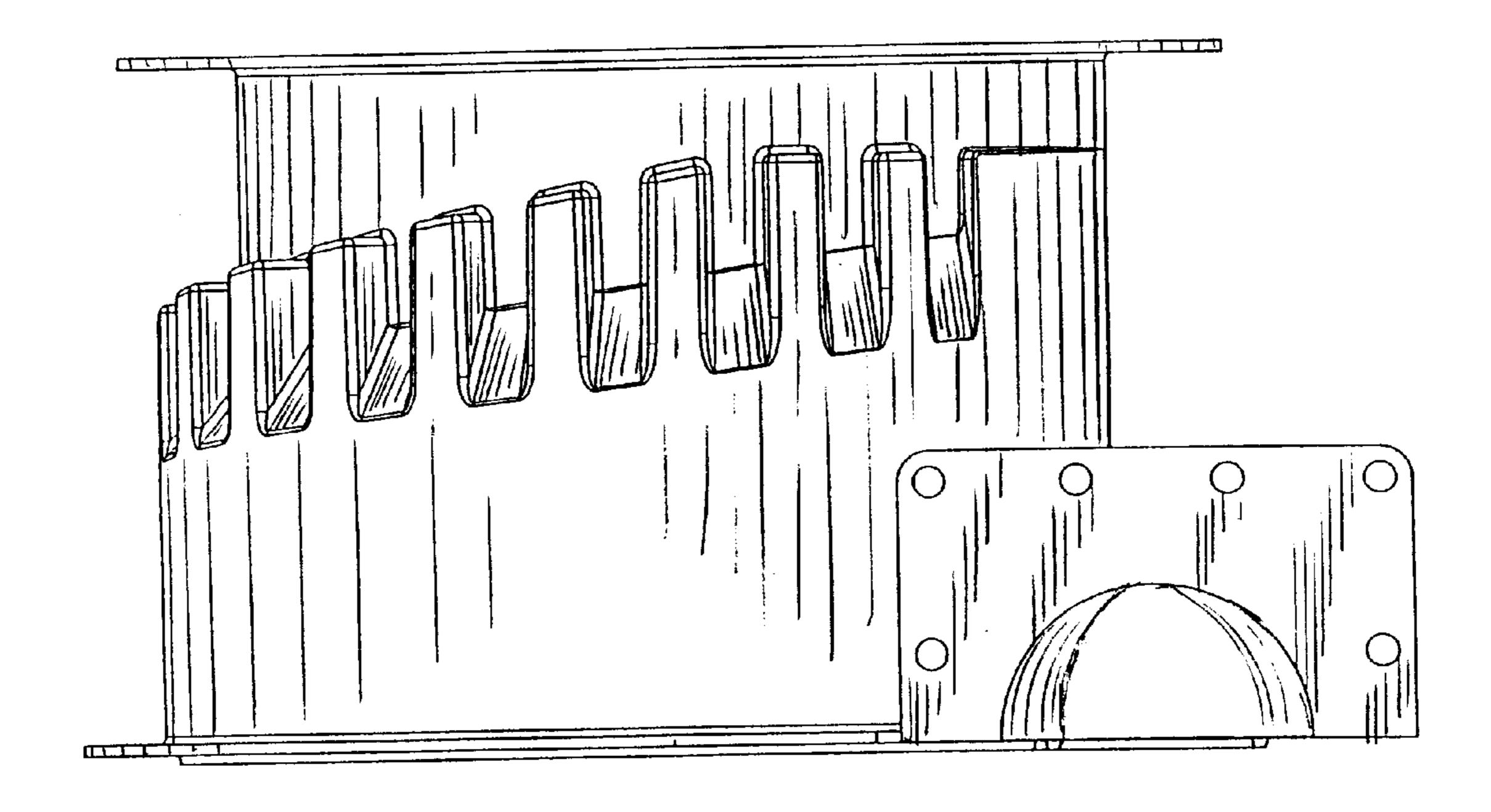


F/G. 14



Oct. 12, 1999

F19.15



F14.16