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

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(54) **SWITCH**

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

(21) Appl. No.: **29/771,975**

(22) Filed: **Feb. 26, 2021**

**Related U.S. Application Data**

(62) Division of application No. 29/658,080, filed on Jul. 27, 2018, now Pat. No. Des. 925,476.

(51) **LOC (13) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/169**

(58) **Field of Classification Search**  
USPC ..... D13/162, 173, 174, 169  
CPC .. H01H 9/02; H01H 9/16; H01H 9/18; H01H 9/181; H01H 9/182; H01H 13/023; H01H 13/04; H01H 13/06; H01H 2009/187; H01H 23/02; H01H 23/025; H01H 23/04; H01H 23/08; H01H 23/12; H01H 23/14; H01H 23/43; H01H 23/145; H01H 23/164; H05B 39/02; H05B 39/04; H05B 39/085; H05B 39/086; H05B 39/088  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

7,034,236 B2 \* 4/2006 Endres ..... H01H 19/635  
200/17 R  
D534,875 S \* 1/2007 Wu ..... D13/169

D570,790 S \* 6/2008 Soler ..... D13/162  
D576,566 S \* 9/2008 Wu ..... D13/169  
7,482,534 B2 \* 1/2009 Ye ..... H01H 3/0213  
174/17 VA  
D609,650 S \* 2/2010 Chou ..... D13/169  
D830,976 S \* 10/2018 Liao ..... D13/169  
D830,977 S \* 10/2018 Liao ..... D13/169  
D851,608 S \* 6/2019 Zheng ..... D13/169  
D859,328 S \* 9/2019 Gutierrez ..... D13/169  
D863,236 S \* 10/2019 Miro ..... D13/169  
D883,237 S \* 5/2020 Miro ..... D13/169  
10,770,244 B2 \* 9/2020 Shan ..... H01H 13/58  
D915,306 S \* 4/2021 Fu ..... D13/158  
2011/0259720 A1 \* 10/2011 Wu ..... H01H 23/025  
200/317  
2013/0301224 A1 \* 11/2013 Chu ..... H05K 5/0017  
361/728  
2016/0020047 A1 \* 1/2016 Hill ..... G06Q 30/0283  
340/12.5  
2018/0160502 A1 \* 6/2018 Casey ..... H05B 45/20  
2019/0226670 A1 \* 7/2019 Rebull ..... H01H 23/24  
2020/0043683 A1 \* 2/2020 Zhang ..... H01H 23/08  
2020/0126739 A1 \* 4/2020 Shan ..... H01H 23/04

**OTHER PUBLICATIONS**

Official Communication received in CA Design Application 185852, dated Jan. 10, 2020, 3 pages.

Official Communication received in MX Design Application MX/f/2019/000148, dated Aug. 4, 2020, 7 pages.

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a switch, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view showing the OFF status of a switch of a first embodiment;

FIG. 2 is a right side view of the switch in FIG. 1;

FIG. 3 is a left side view of the switch in FIG. 1;

FIG. 4 is a bottom view of the switch in FIG. 1;

FIG. 5 is a top view of the switch in FIG. 1;

(Continued)

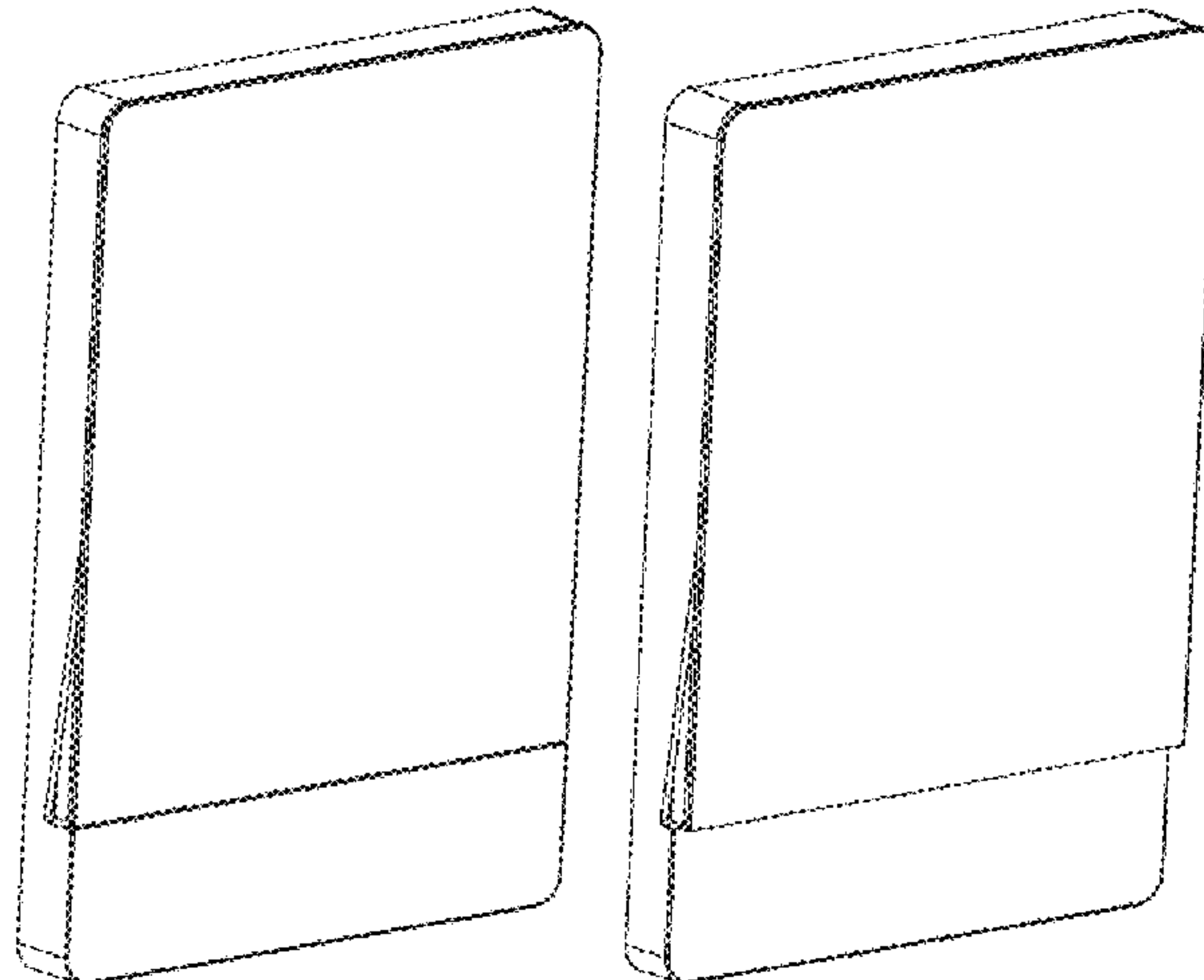


FIG. 6 is a perspective view of the switch in FIG. 1;  
FIG. 7 is a front view showing the ON status of a switch of a first embodiment;  
FIG. 8 is a right side view of the switch in FIG. 7;  
FIG. 9 is a left side view of the switch in FIG. 7;  
FIG. 10 is a bottom view of the switch in FIG. 7;  
FIG. 11 is a top view of the switch in FIG. 7;  
FIG. 12 is a perspective view of the switch in FIG. 7;  
FIG. 13 is a front view showing the OFF status of a switch of a second embodiment;  
FIG. 14 is a right side view of the switch in FIG. 13;  
FIG. 15 is a left side view of the switch in FIG. 13;  
FIG. 16 is a bottom view of the switch in FIG. 13;  
FIG. 17 is a top view of the switch in FIG. 13;  
FIG. 18 is a perspective view of the switch in FIG. 13;  
FIG. 19 is a front view showing the ON status of a switch of a second embodiment;  
FIG. 20 is a right side view of the switch in FIG. 19;  
FIG. 21 is a left side view of the switch in FIG. 19;  
FIG. 22 is a bottom view of the switch in FIG. 19;  
FIG. 23 is a top view of the switch in FIG. 19;  
FIG. 24 is a perspective view of the switch in FIG. 19;  
FIG. 25 is a front view showing the OFF status of a switch of a third embodiment;  
FIG. 26 is a right side view of the switch in FIG. 25;  
FIG. 27 is a left side view of the switch in FIG. 25;  
FIG. 28 is a bottom view of the switch in FIG. 25;

FIG. 29 is a top view of the switch in FIG. 25;  
FIG. 30 is a perspective view of the switch in FIG. 25;  
FIG. 31 is a front view showing the ON status of a switch of a third embodiment;  
FIG. 32 is a right side view of the switch in FIG. 31;  
FIG. 33 is a left side view of the switch in FIG. 31;  
FIG. 34 is a bottom view of the switch in FIG. 31;  
FIG. 35 is a top view of the switch in FIG. 31;  
FIG. 36 is a perspective view of the switch in FIG. 31;  
FIG. 37 is a front view showing the OFF status of a switch of a fourth embodiment;  
FIG. 38 is a right side view of the switch in FIG. 37;  
FIG. 39 is a left side view of the switch in FIG. 37;  
FIG. 40 is a bottom view of the switch in FIG. 37;  
FIG. 41 is a top view of the switch in FIG. 37;  
FIG. 42 is a perspective view of the switch in FIG. 37;  
FIG. 43 is a front view showing the ON status of a switch of a fourth embodiment;  
FIG. 44 is a right side view of the switch in FIG. 43;  
FIG. 45 is a left side view of the switch in FIG. 43;  
FIG. 46 is a bottom view of the switch in FIG. 43;  
FIG. 47 is a top view of the switch in FIG. 43; and,  
FIG. 48 is a perspective view of the switch in FIG. 43.  
The rear views of the embodiments are omitted since they are not visible in use.

**1 Claim, 32 Drawing Sheets**

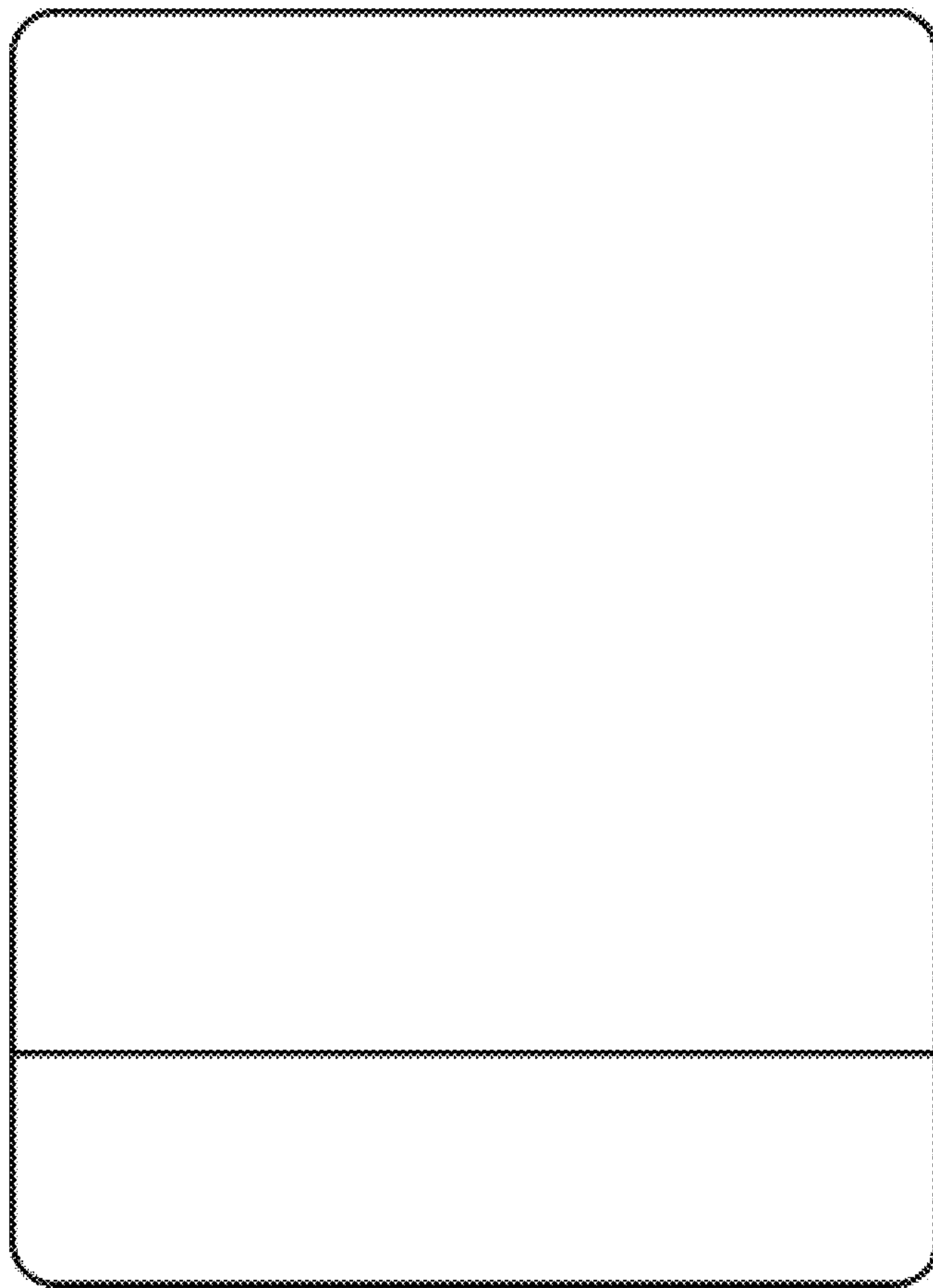


Fig. 1

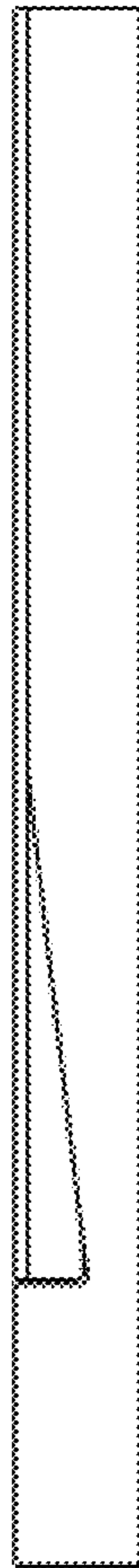


Fig. 2

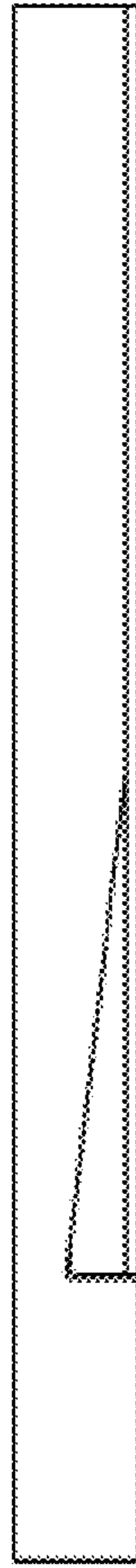


Fig. 3



Fig. 4

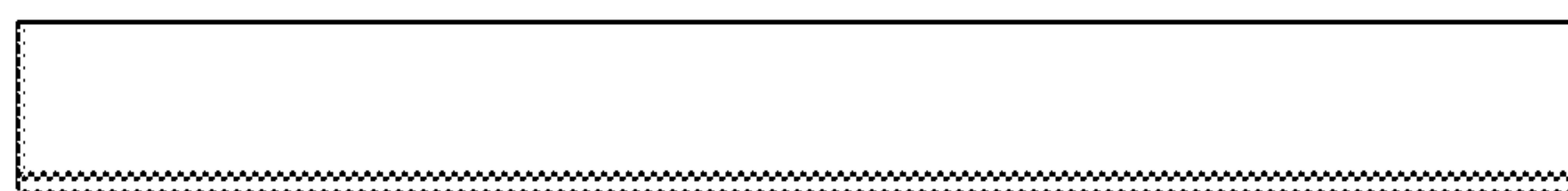


Fig. 5



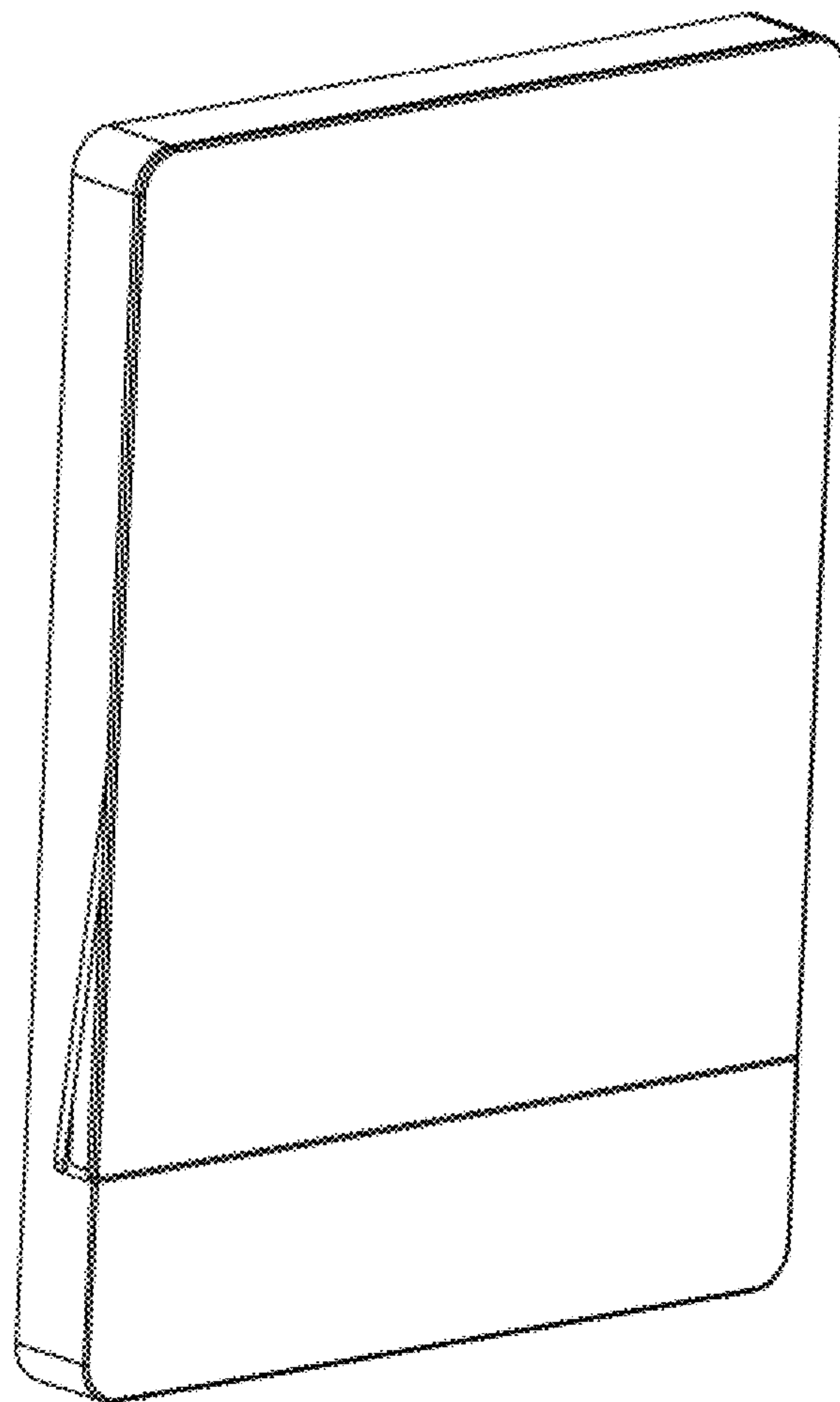


Fig. 6

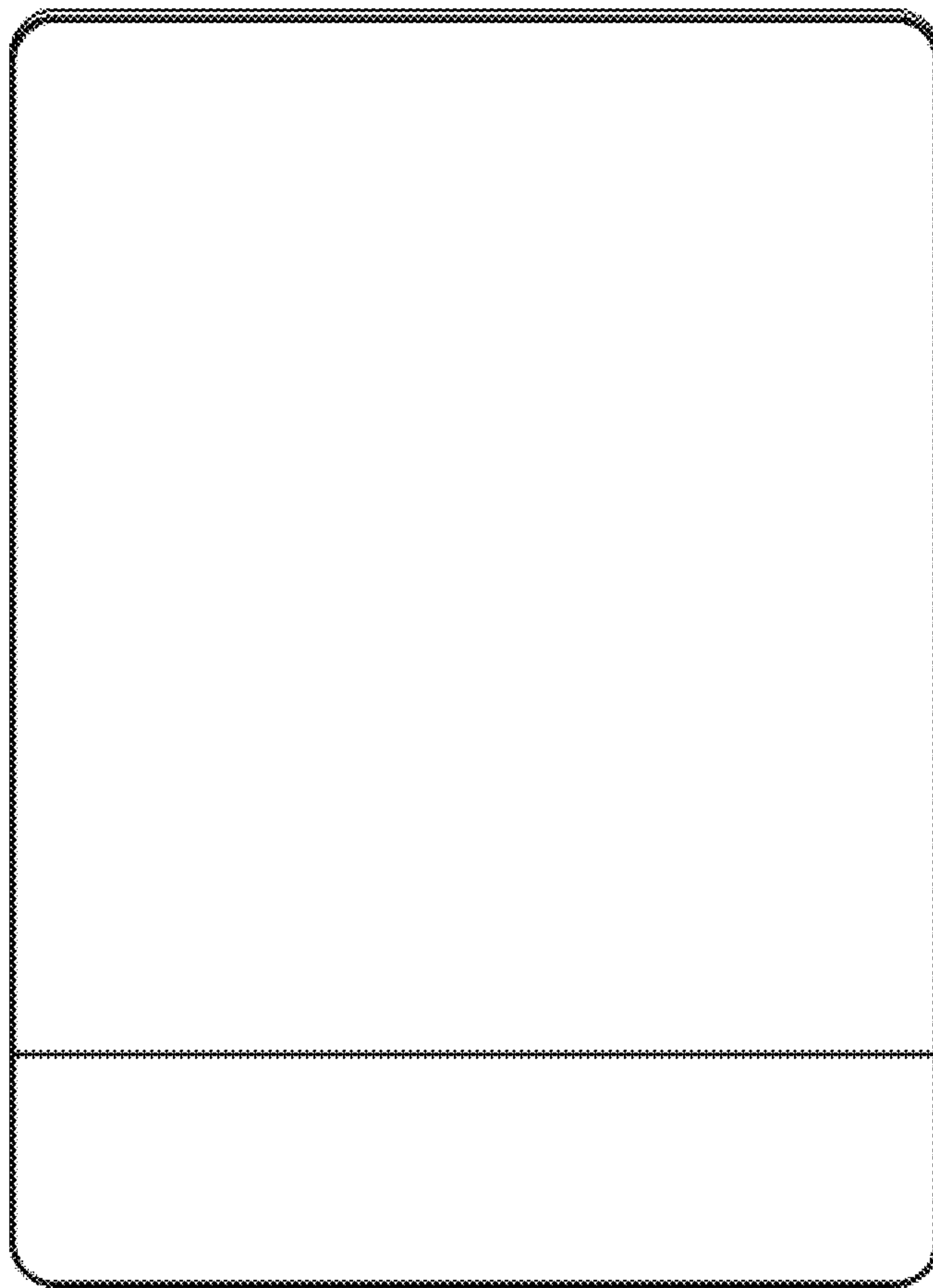


Fig. 7

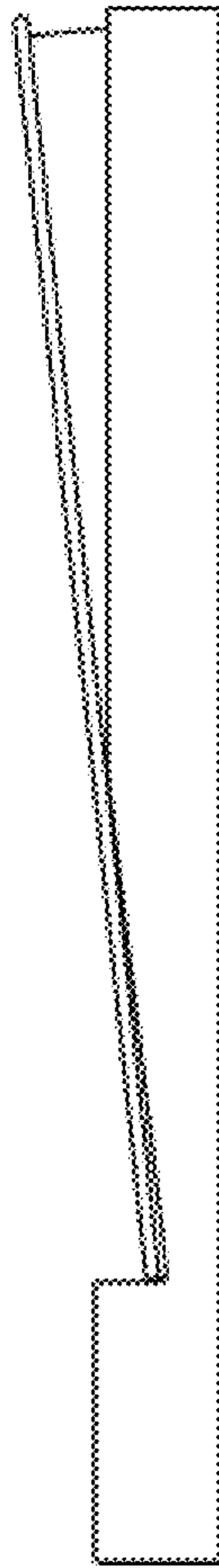


Fig. 8



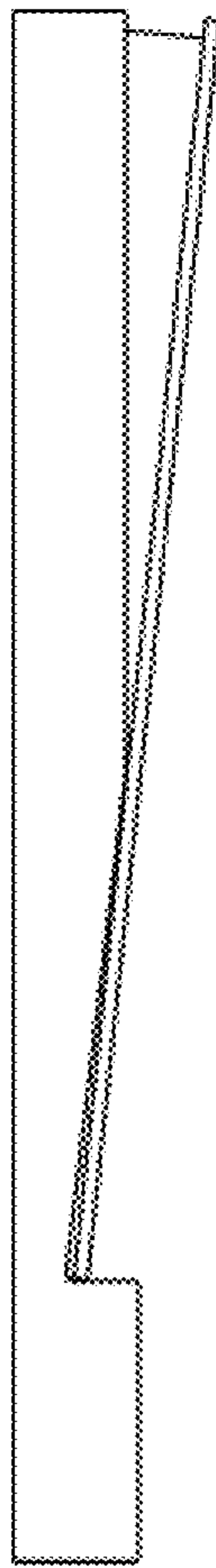


Fig. 9

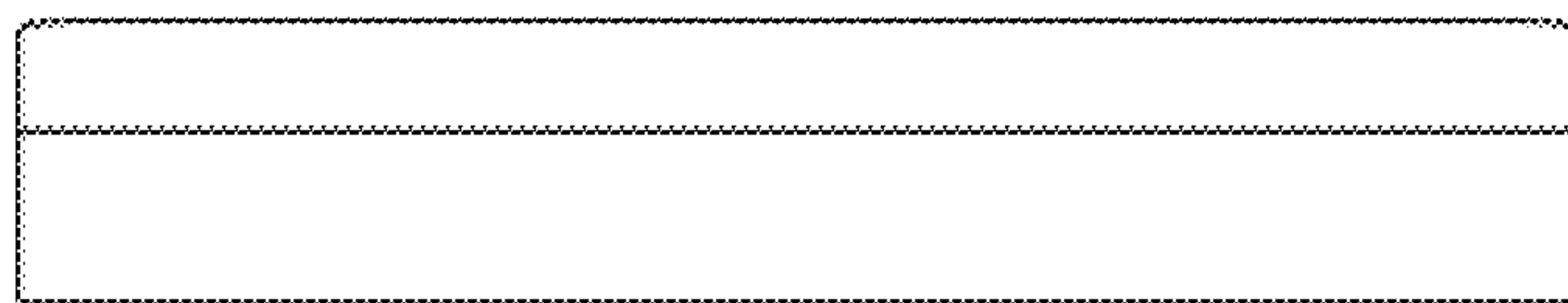


Fig. 10

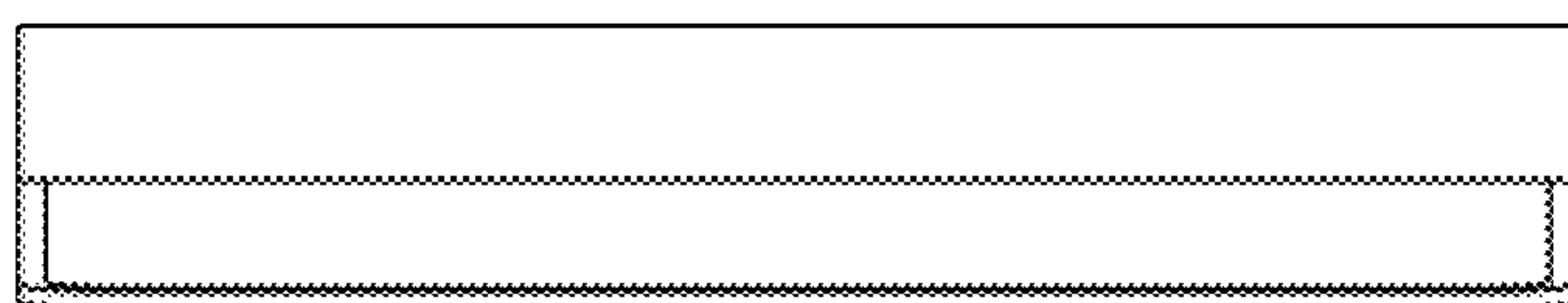


Fig. 11

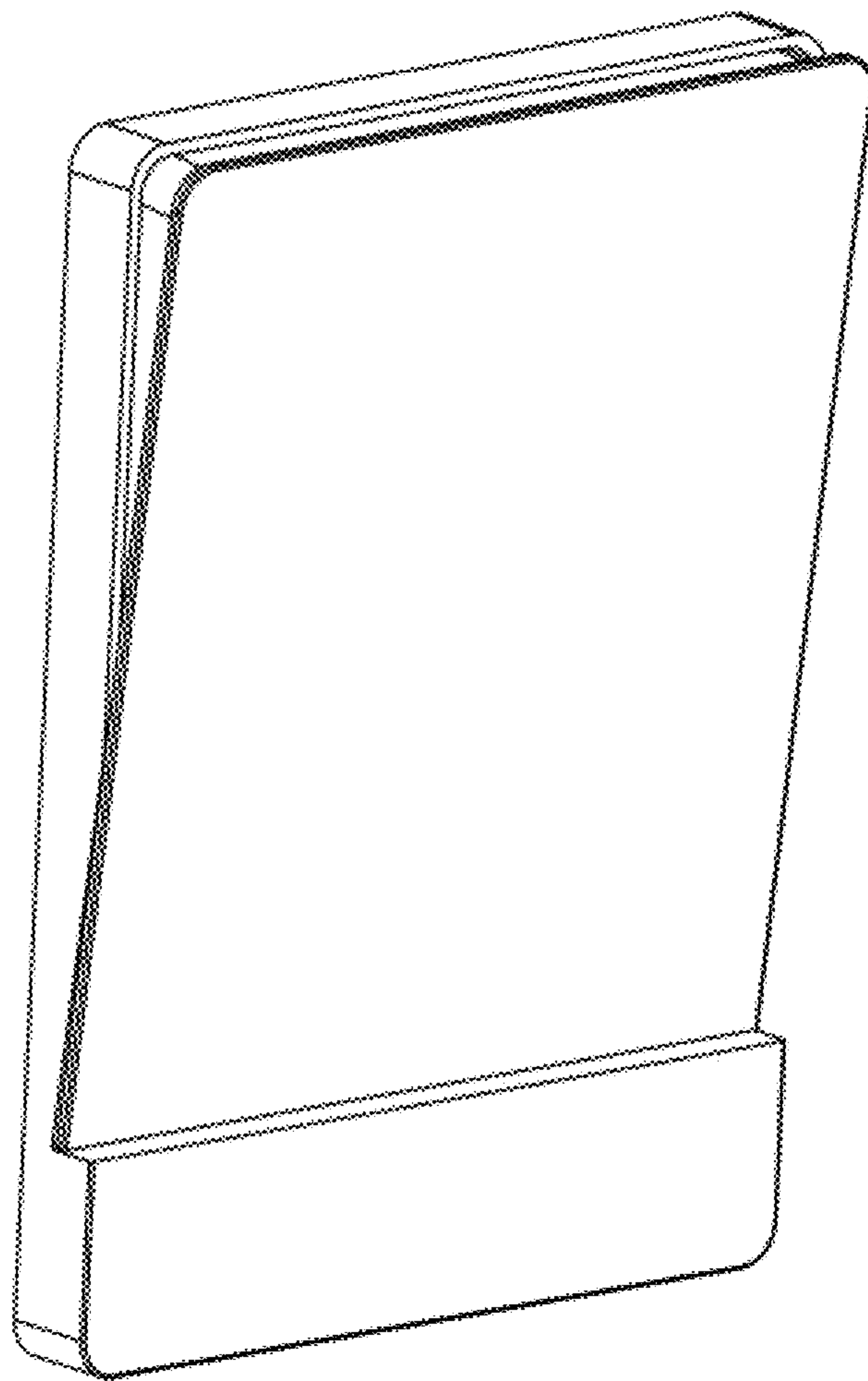


Fig. 12

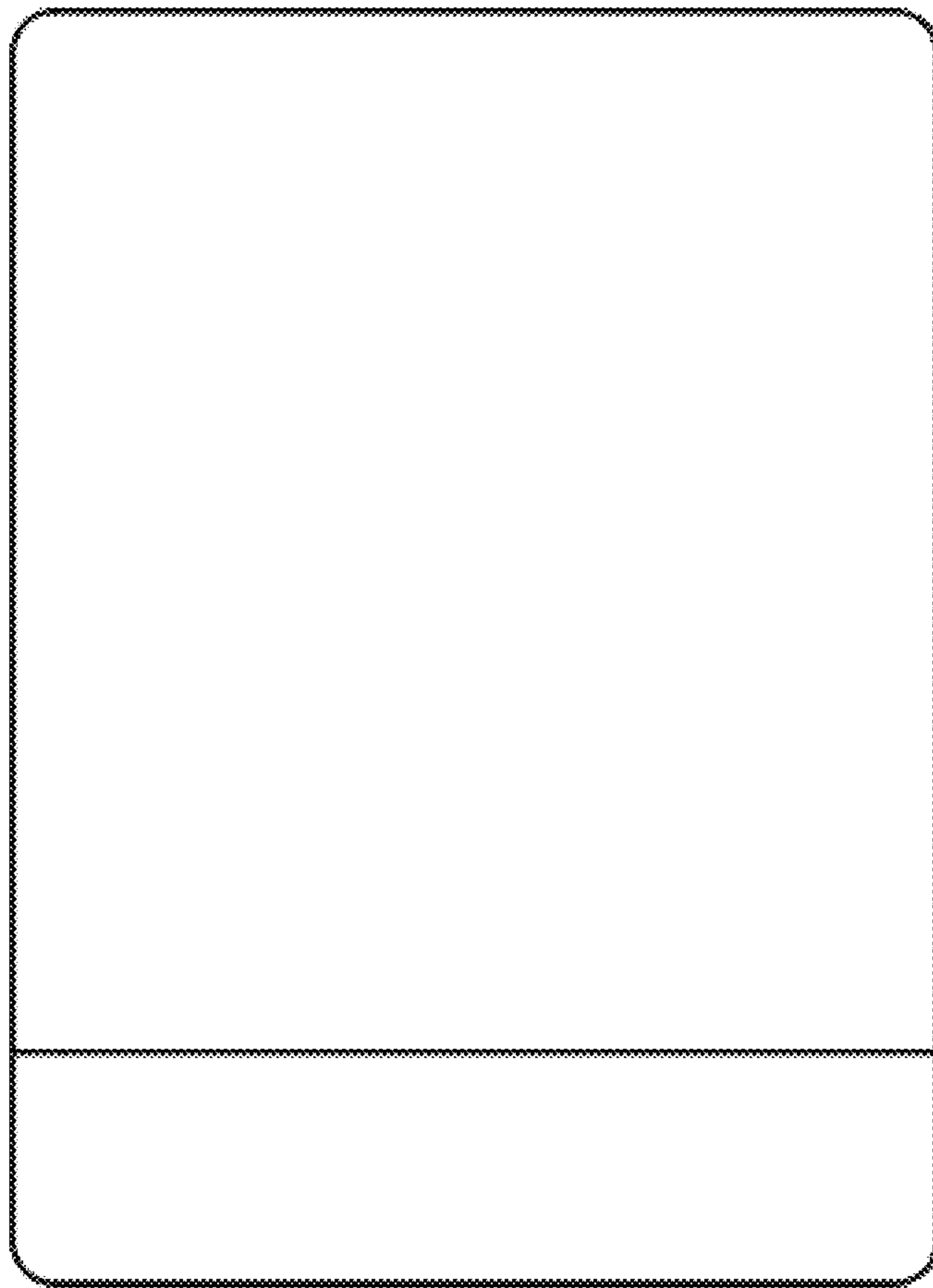


Fig. 13

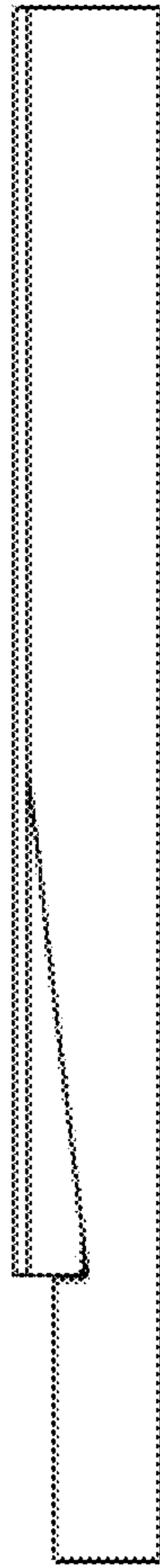
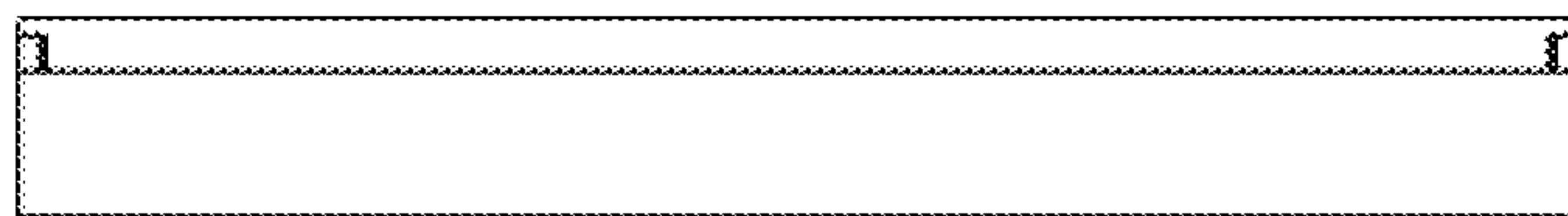


Fig. 14



**Fig. 15**



**Fig. 16**



**Fig. 17**

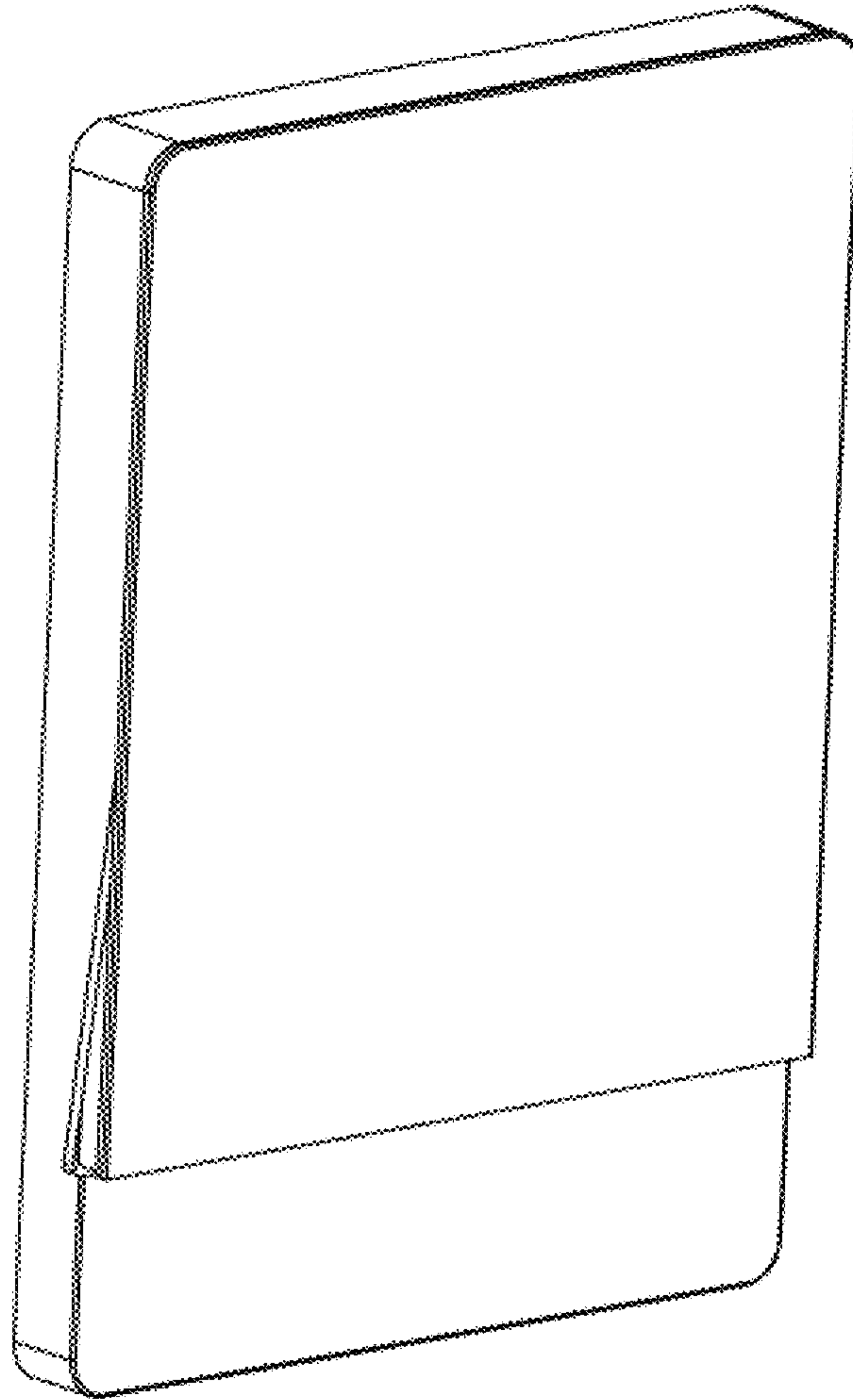
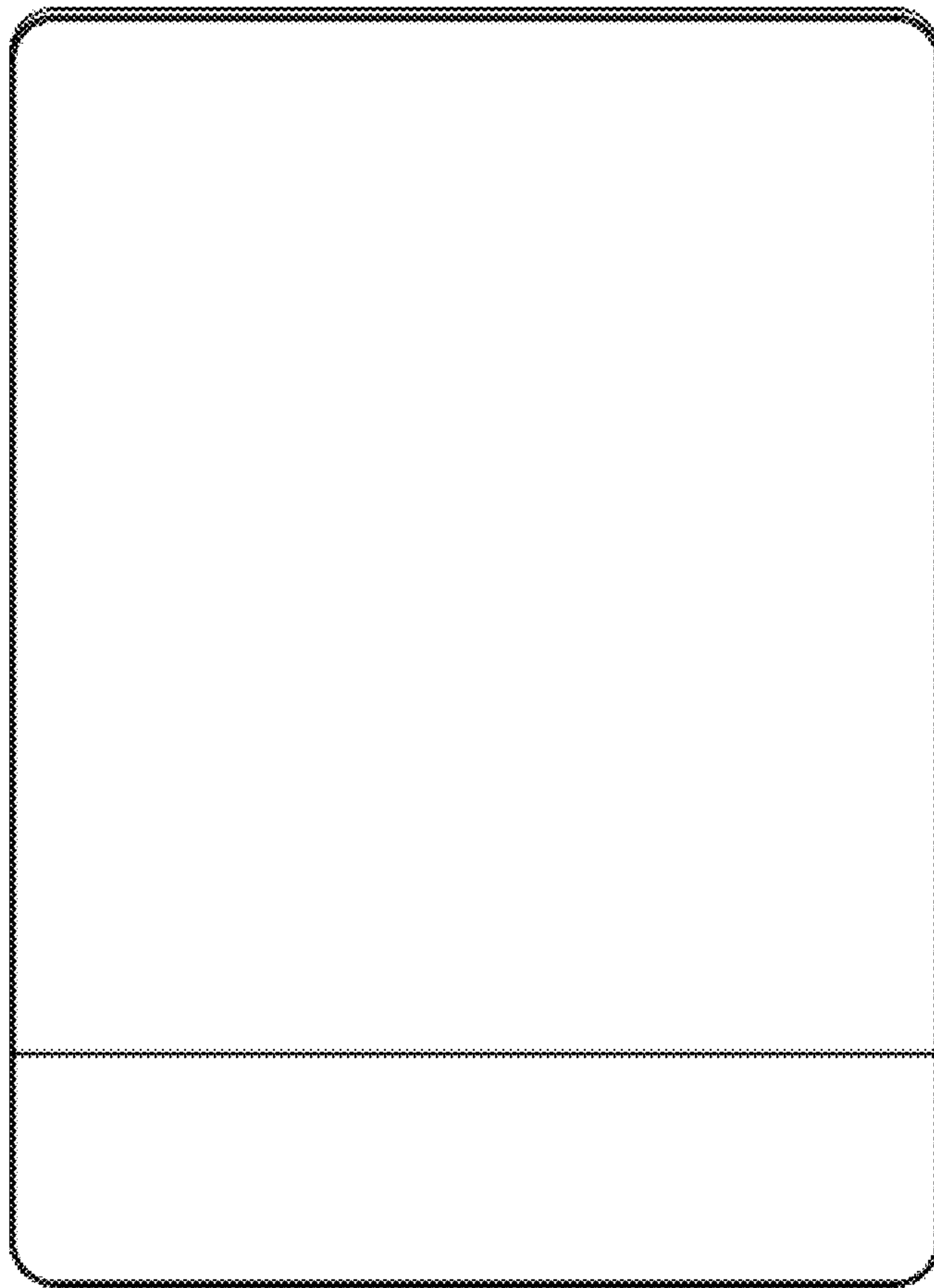


Fig. 18



**Fig. 19**



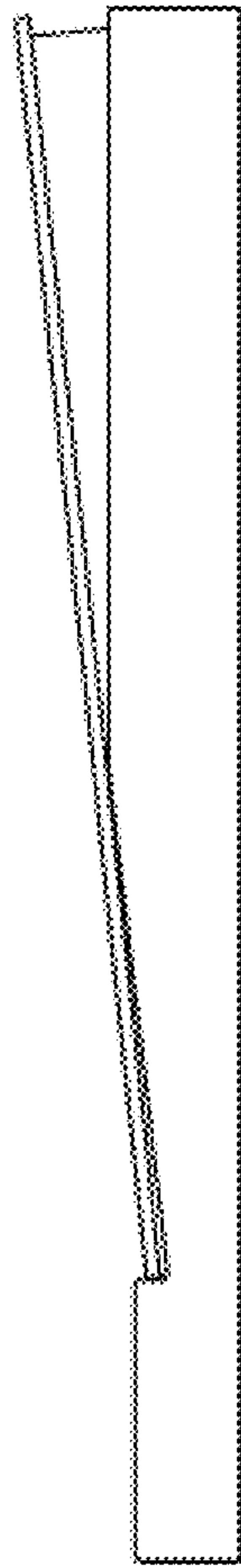
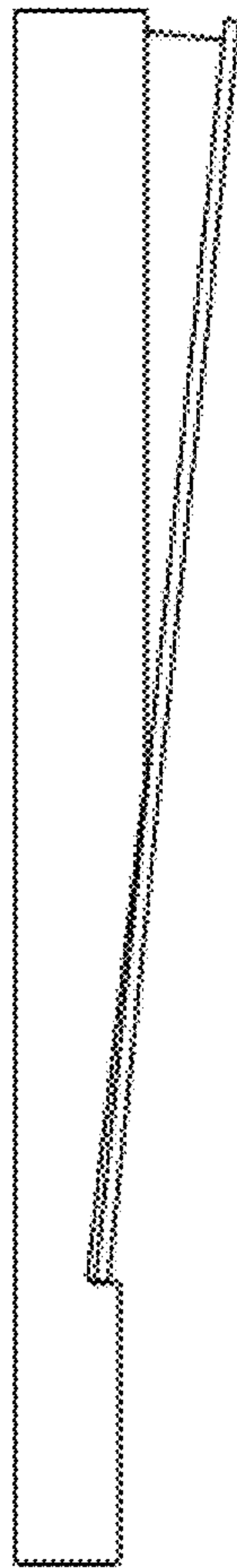
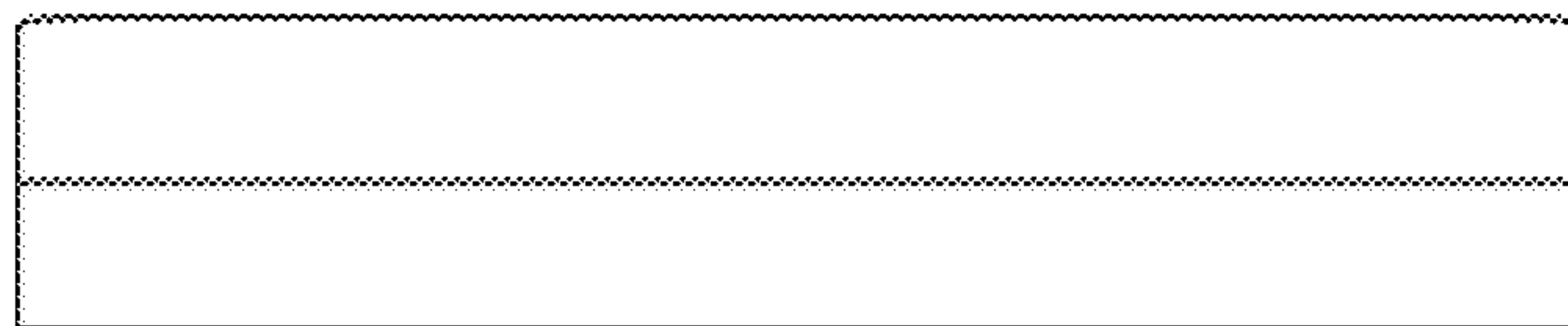


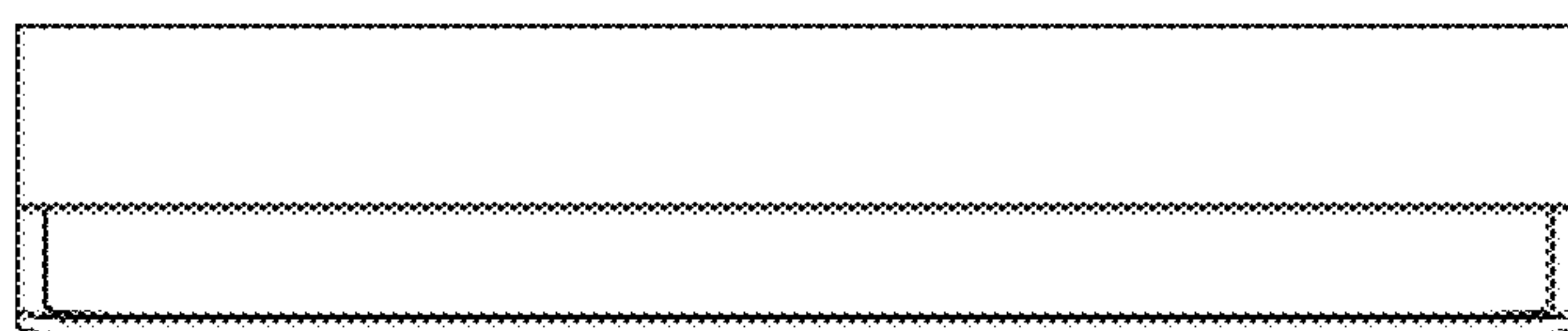
Fig. 20



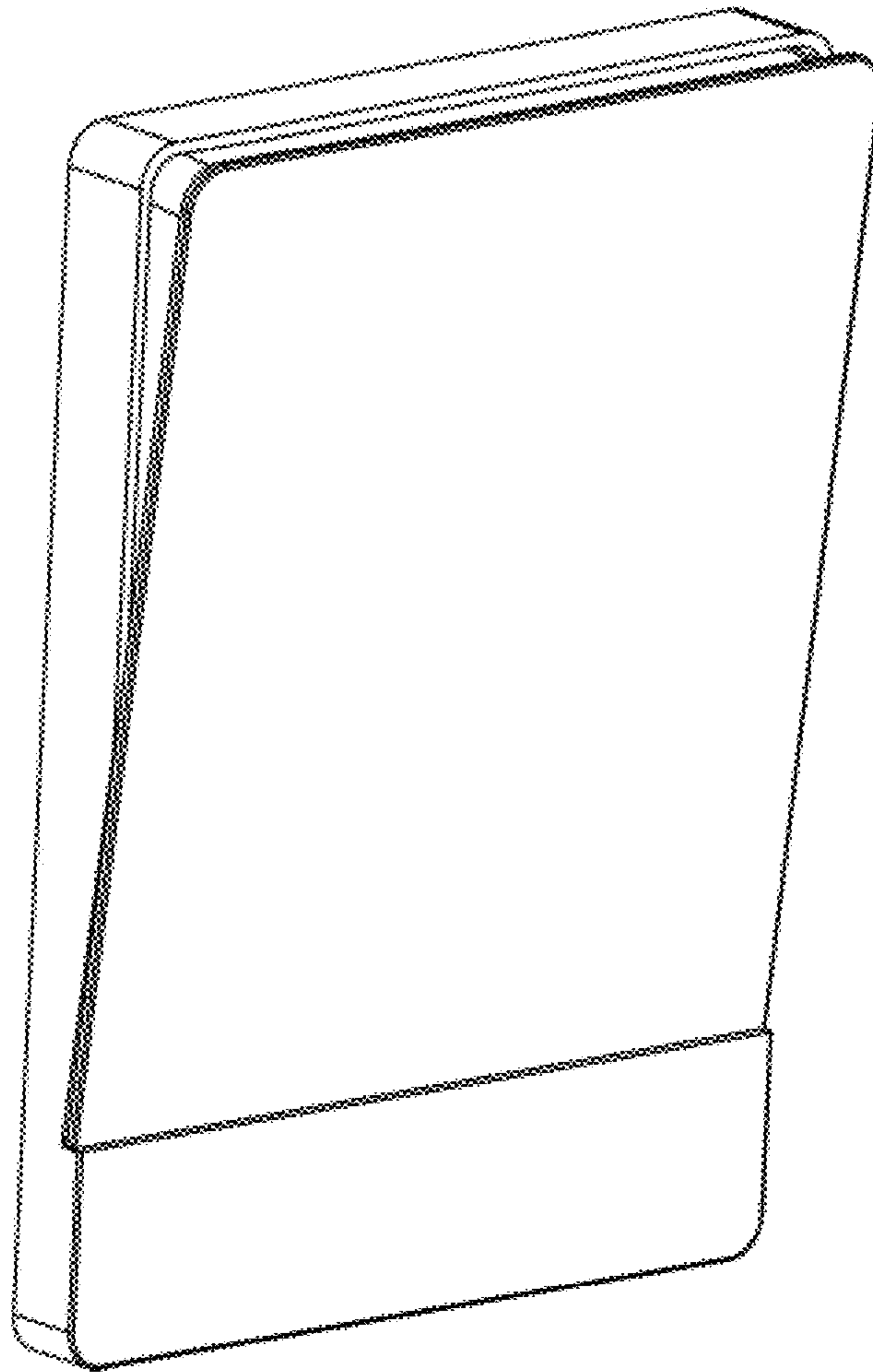
**Fig. 21**



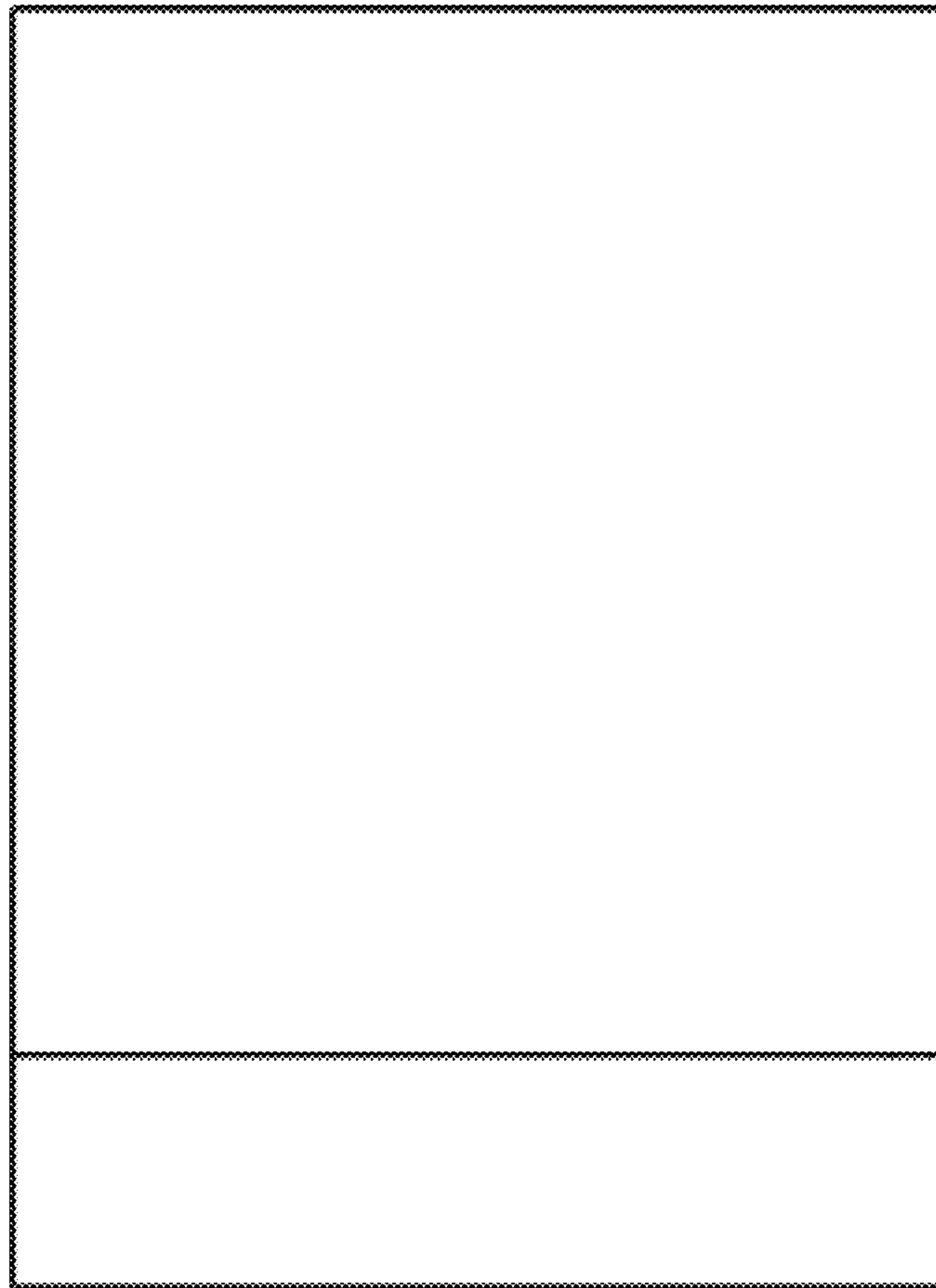
**Fig. 22**



**Fig. 23**



**Fig. 24**



**Fig. 25**

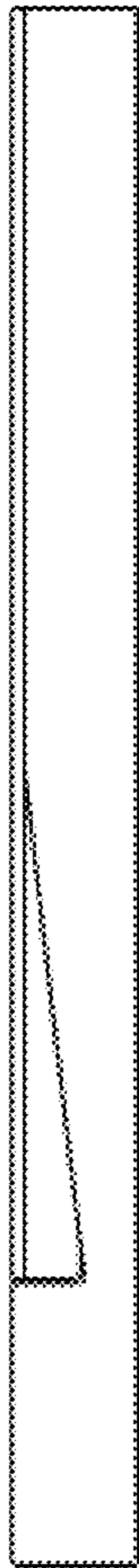


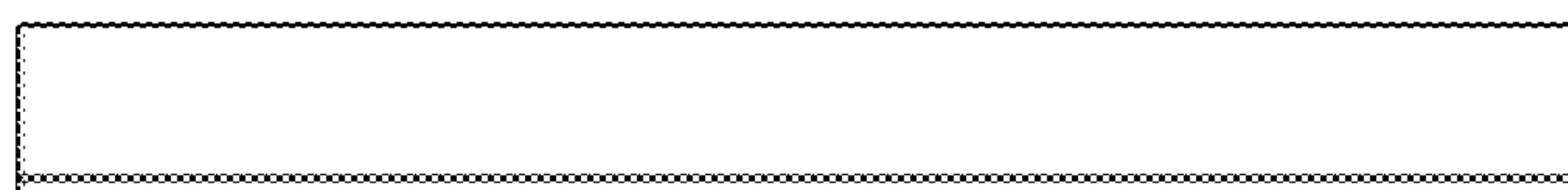
Fig. 26



**Fig. 27**



**Fig. 28**



**Fig. 29**

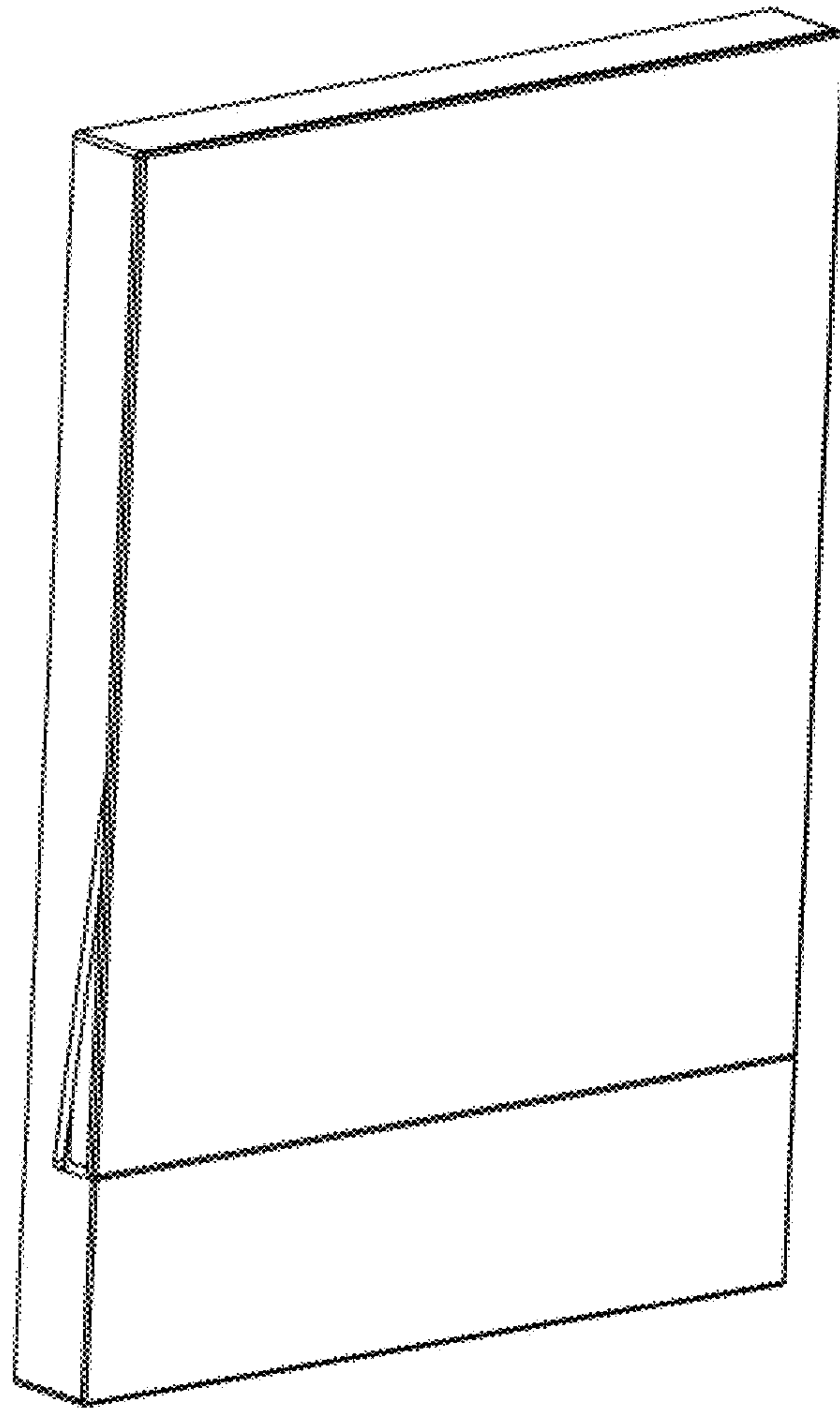
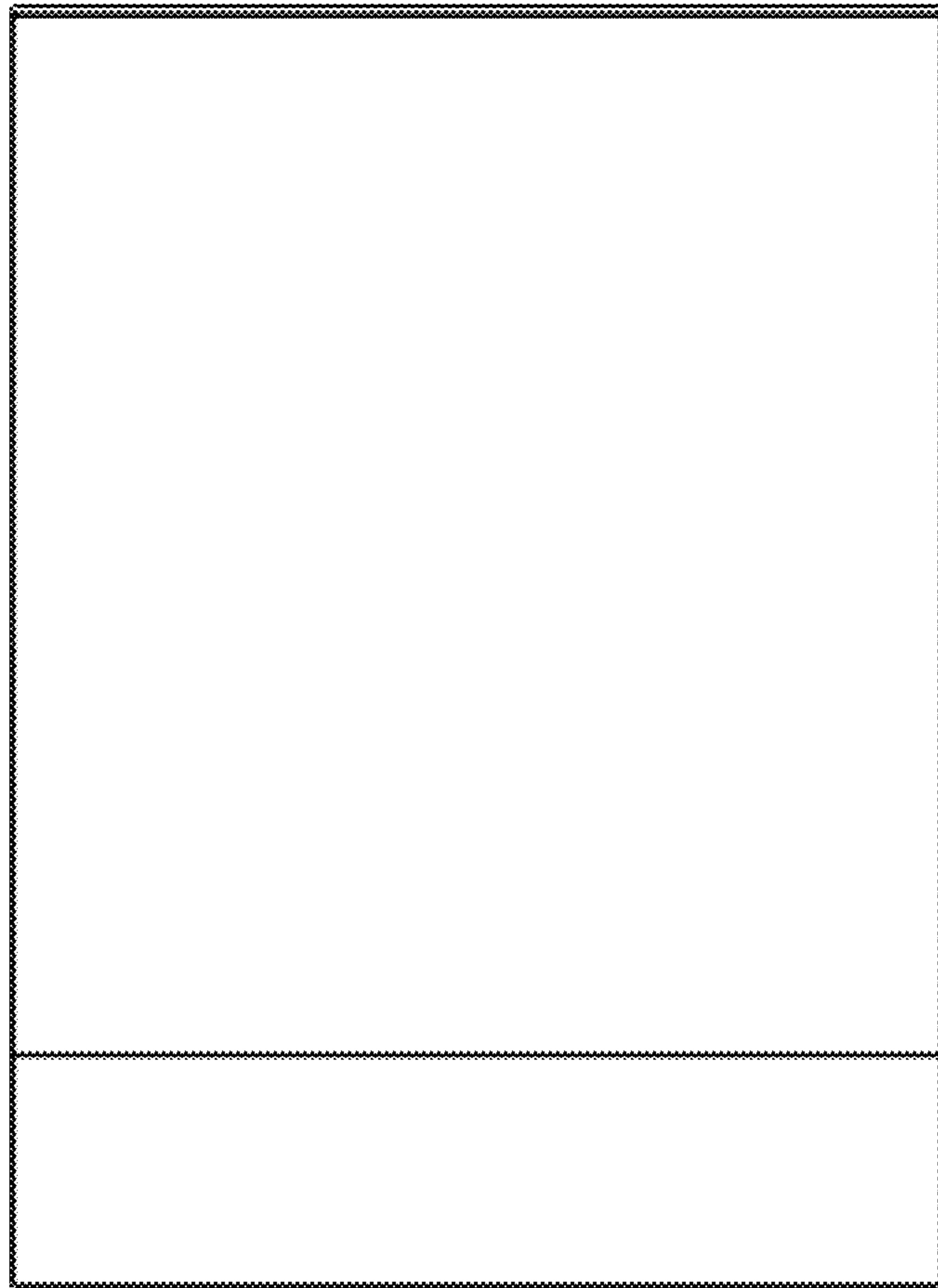


Fig. 30





**Fig. 31**

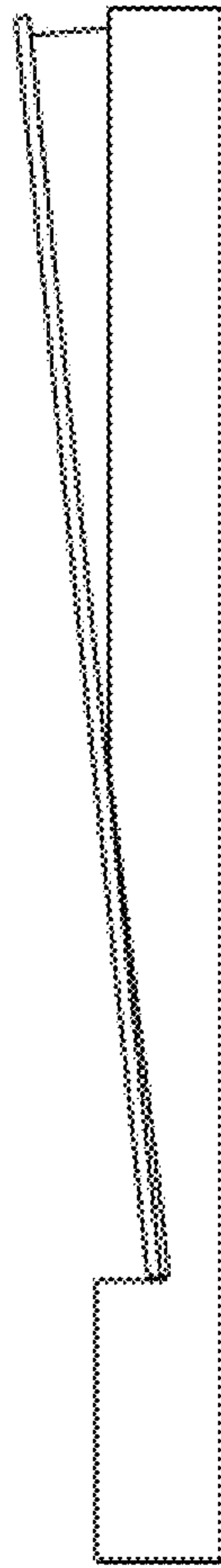
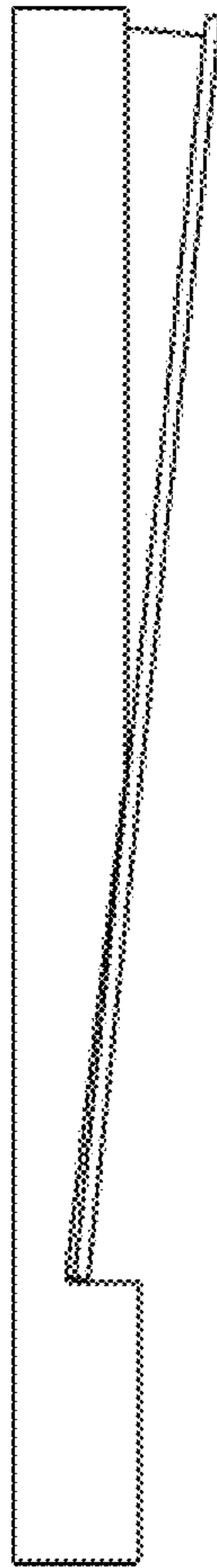
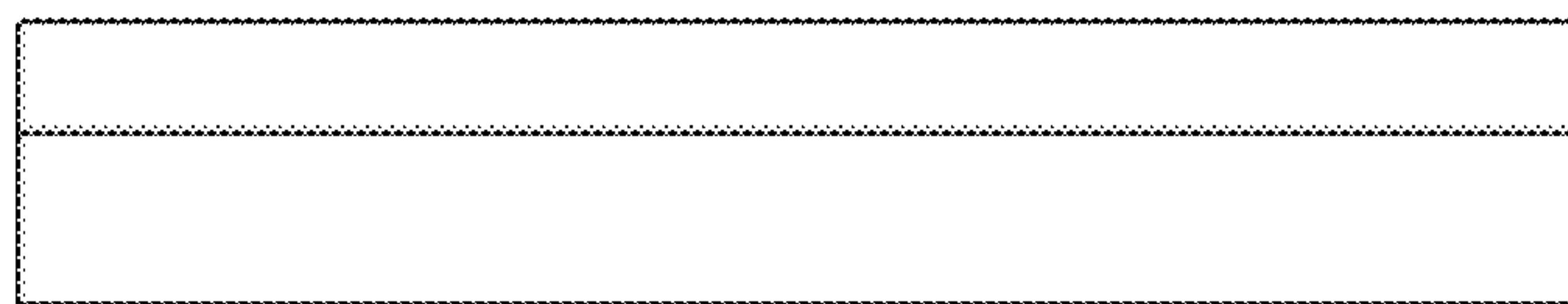


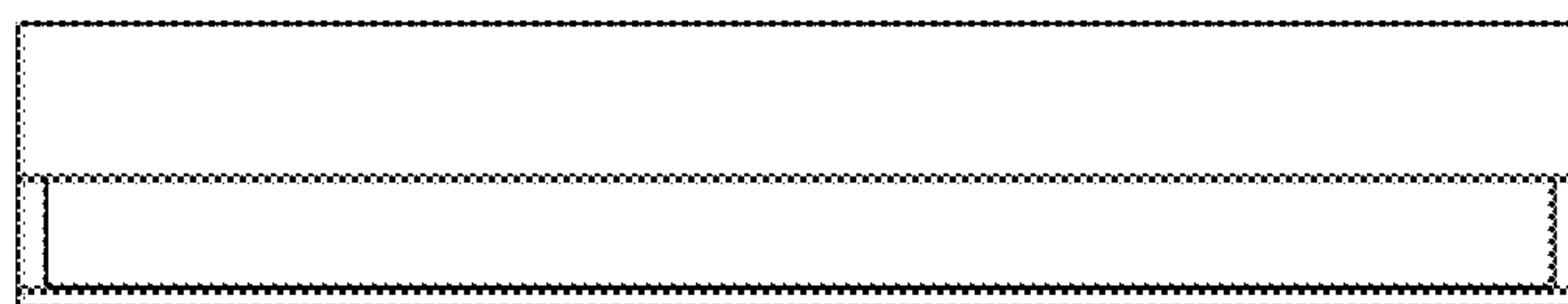
Fig. 32



**Fig. 33**



**Fig. 34**



**Fig. 35**

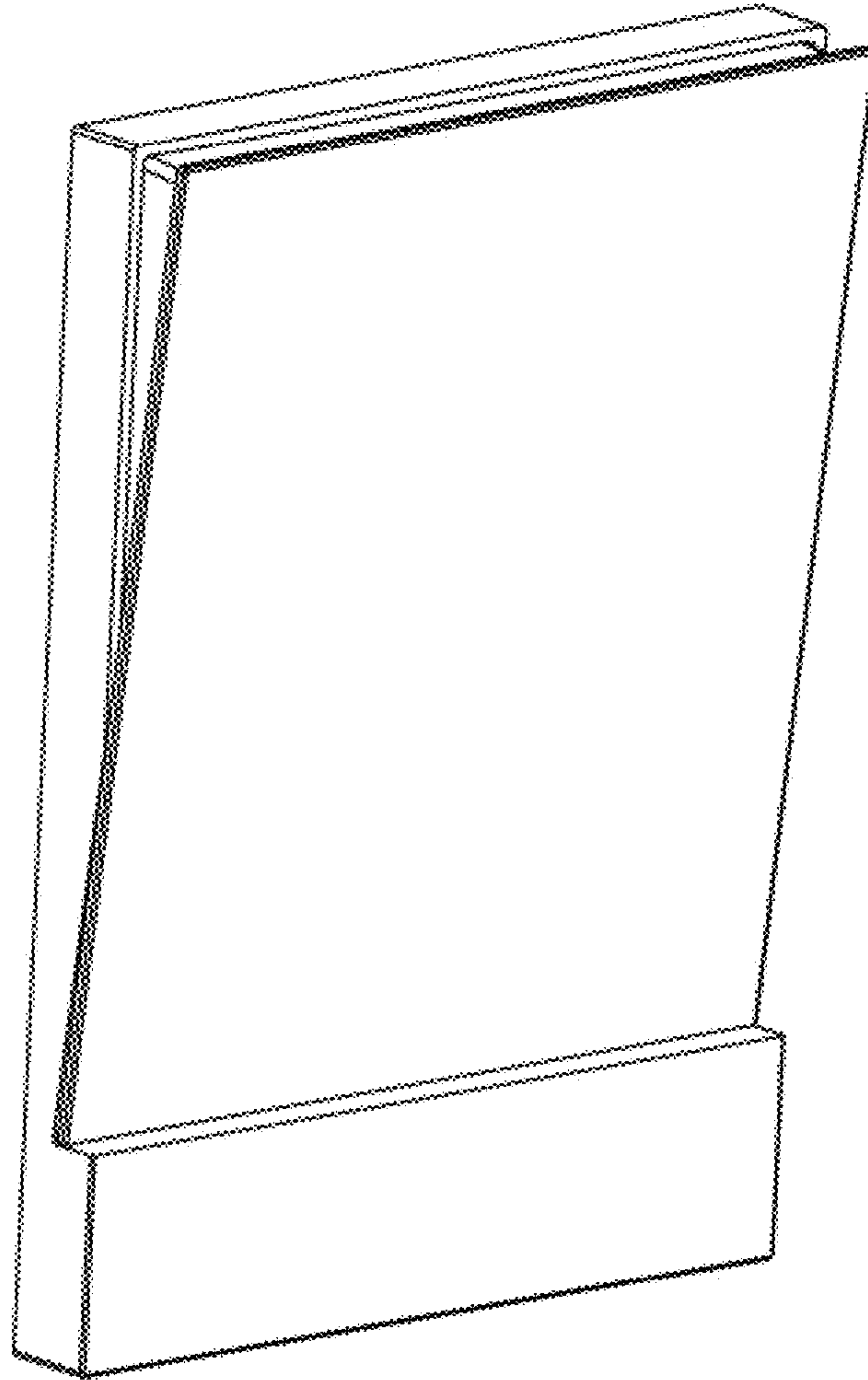
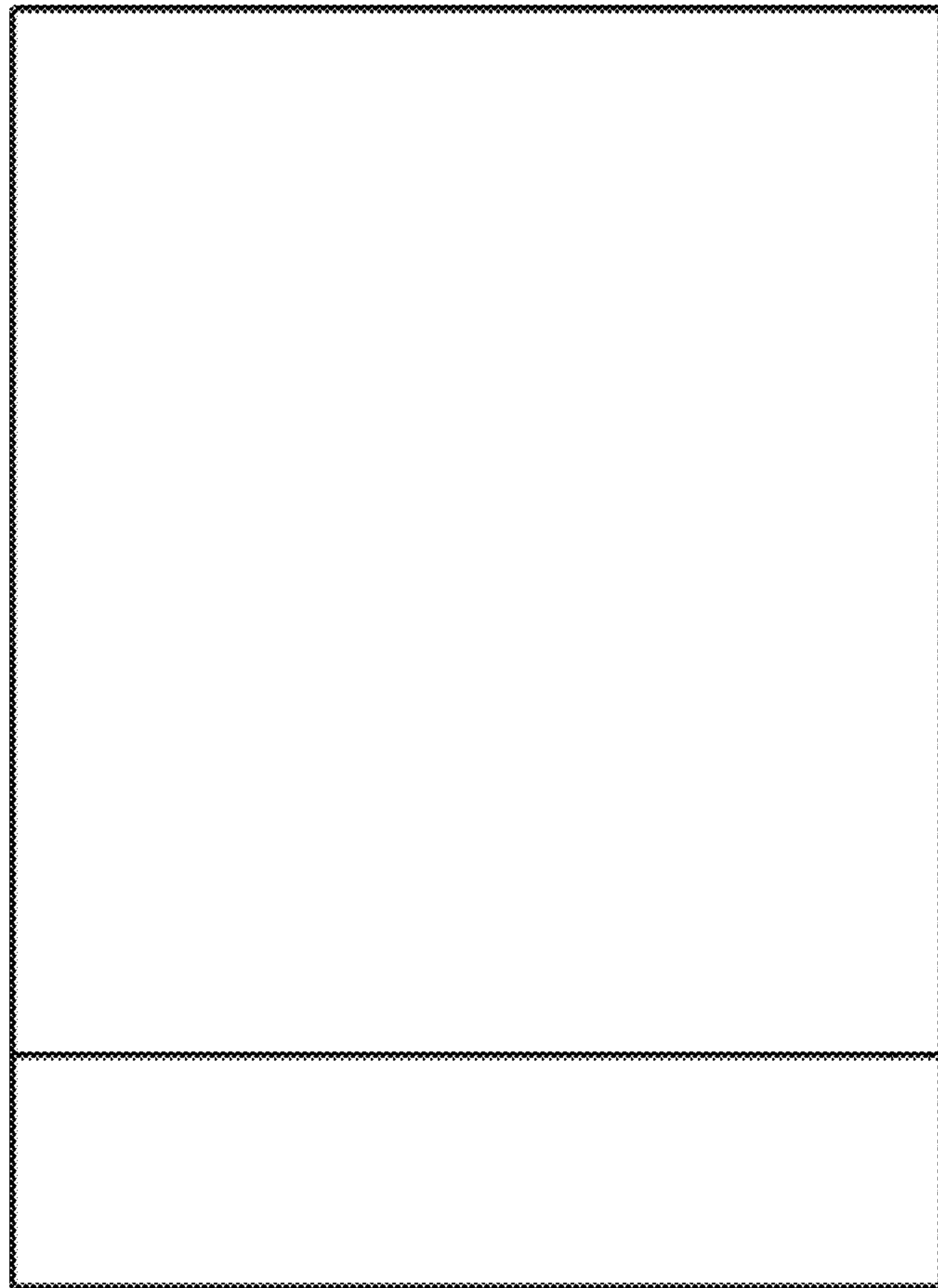


Fig. 36



**Fig. 37**

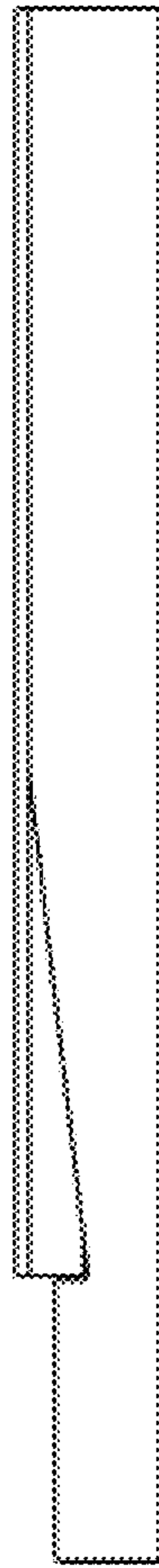
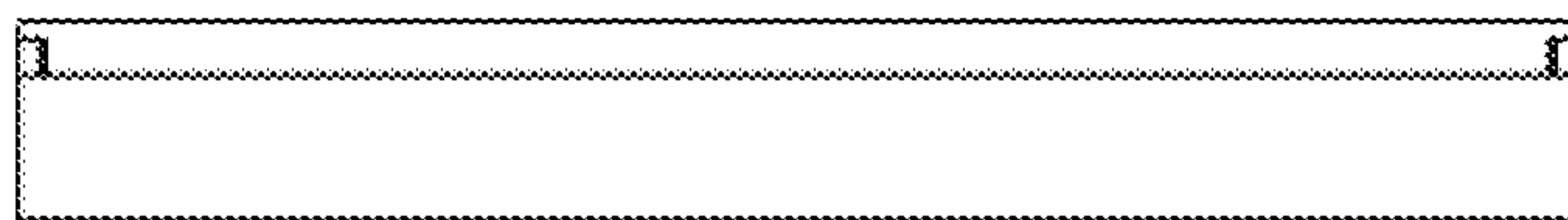


Fig. 38



**Fig. 39**



**Fig. 40**



**Fig. 41**



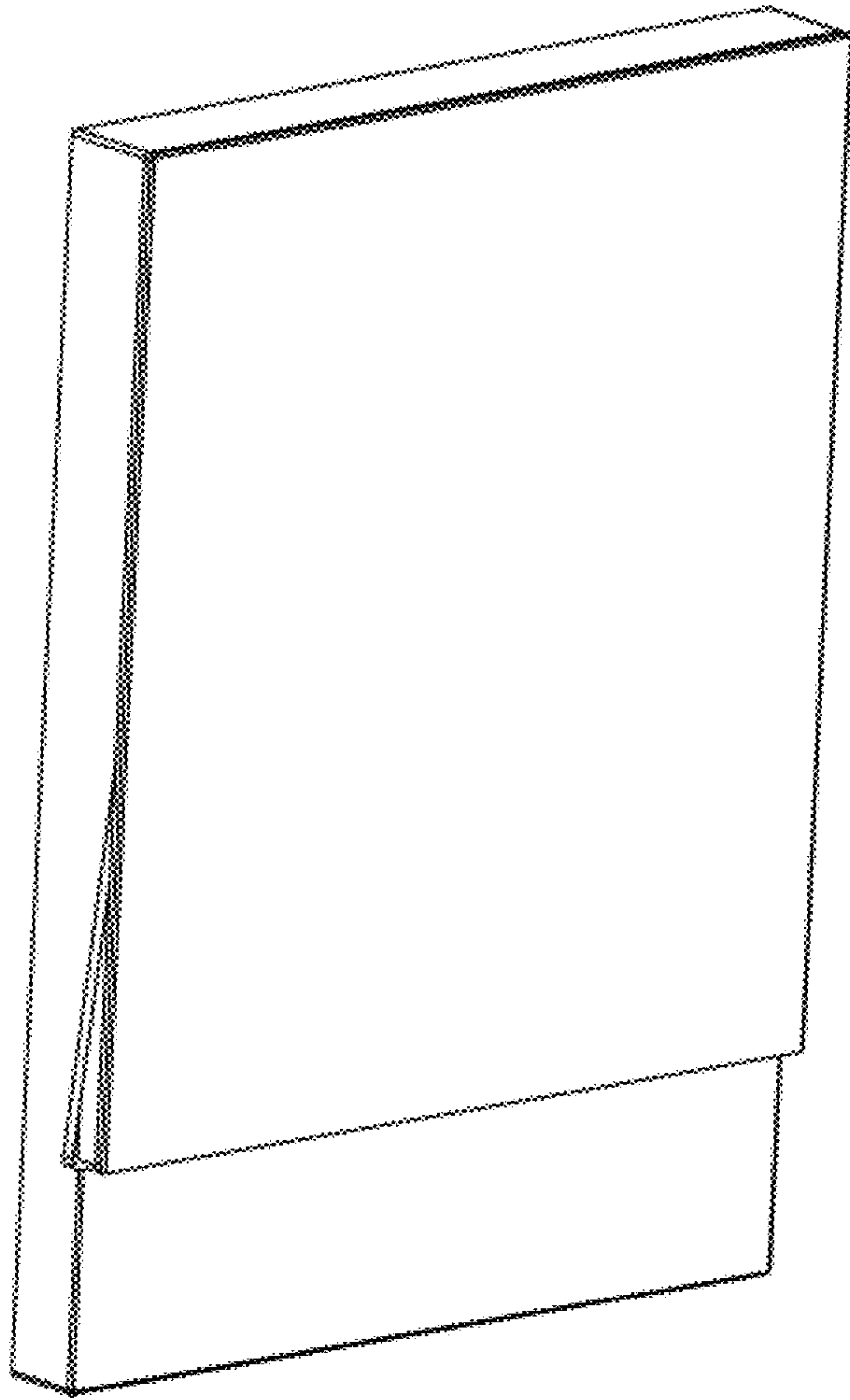
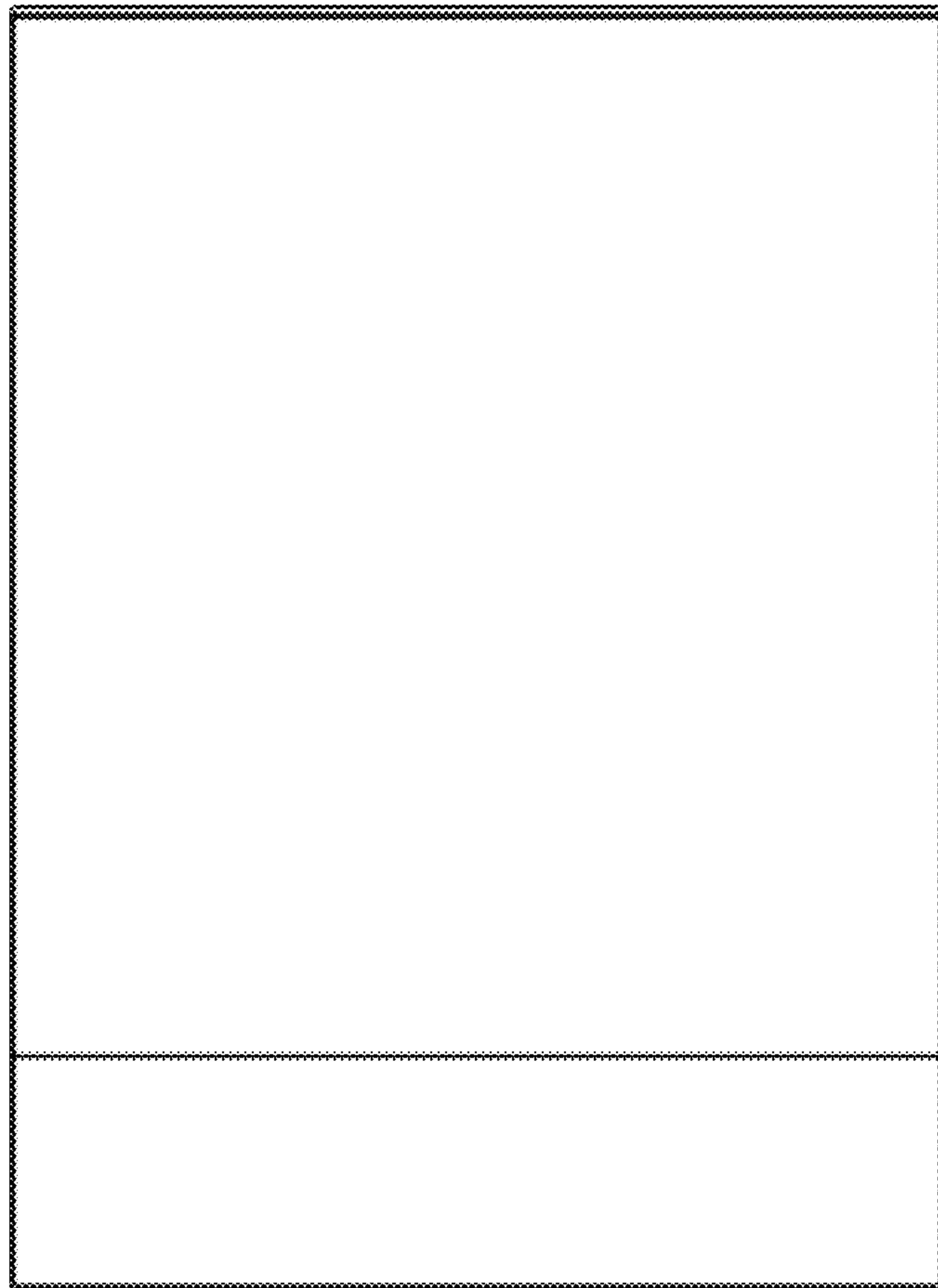


Fig. 42



**Fig. 43**

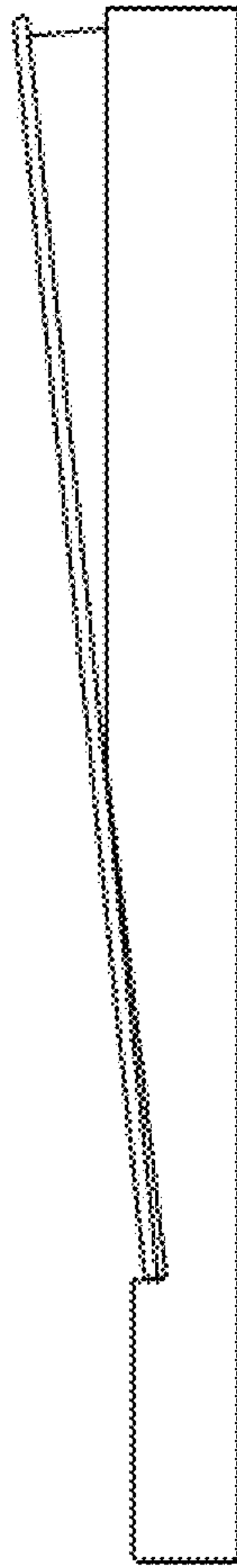
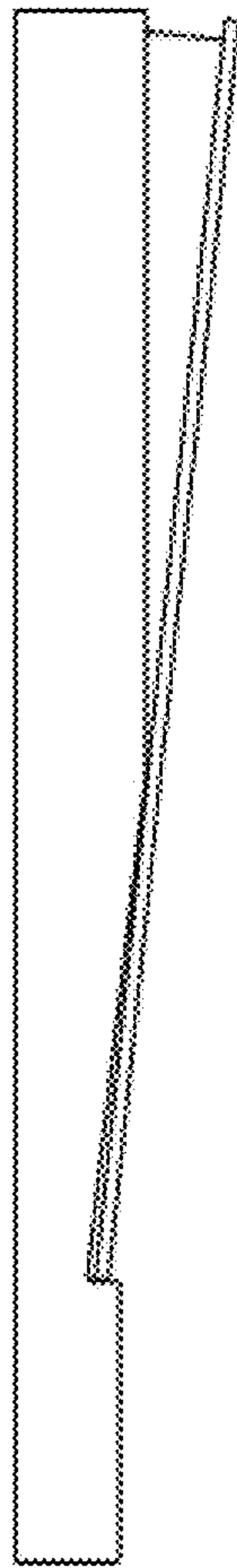
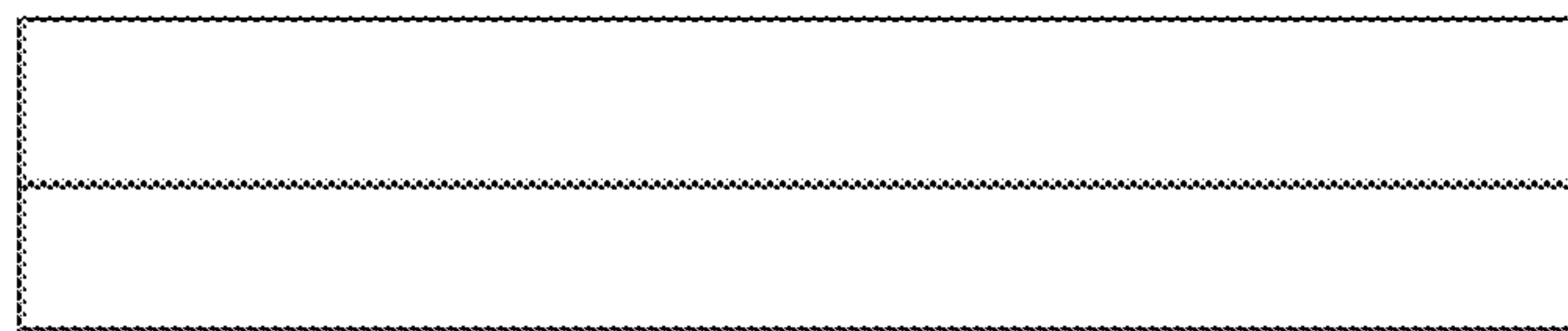


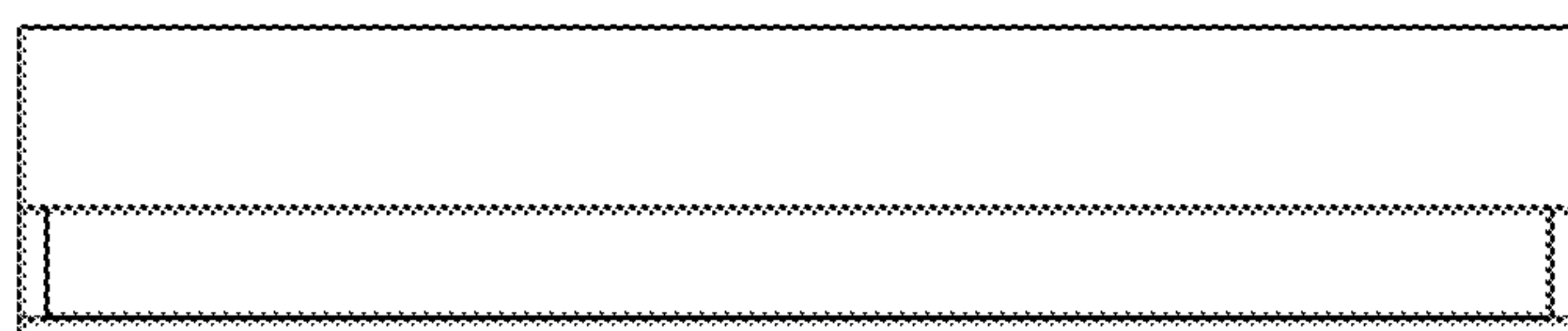
Fig. 44



**Fig. 45**



**Fig. 46**



**Fig. 47**

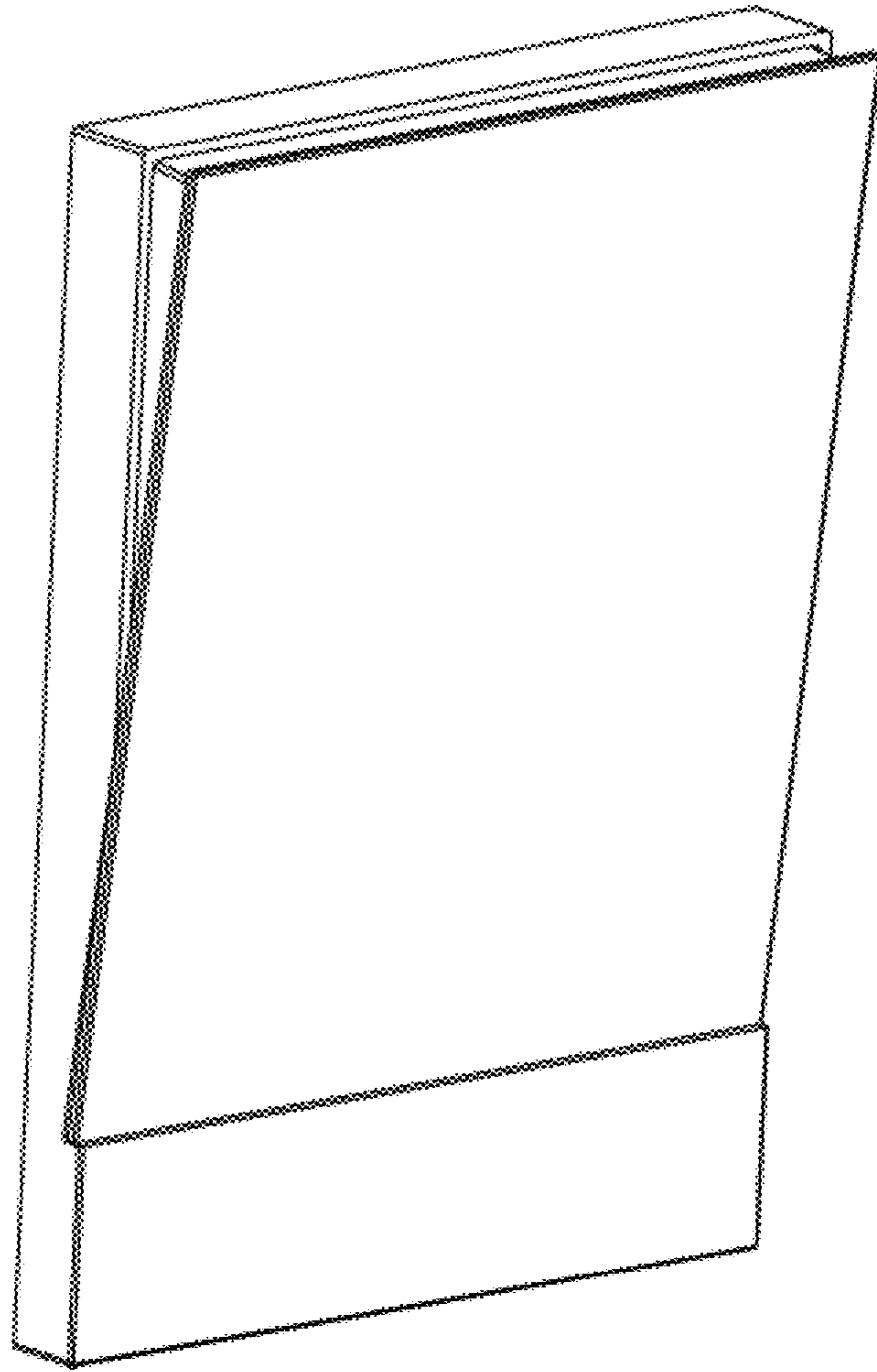


Fig. 48