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(12) **United States Design Patent** (10) **Patent No.:** **US D973,200 S**  
**Dria et al.** (45) **Date of Patent:** **\*\* Dec. 20, 2022**

(54) **BOND PATTERN FOR SUBSTRATE**  
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(\*\*) Term: **15 Years**

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Mar. 19, 2019.

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17, 2018, provisional application No. 62/645,483,  
filed on Mar. 20, 2018.

(51) **LOC (13) Cl.** ..... **02-01**

(52) **U.S. Cl.**  
USPC ..... **D24/126**

(58) **Field of Classification Search**  
USPC ..... D24/124, 125, 126, 189, 190, 191, 192  
CPC ..... A61F 13/15; A61F 13/64; A61F 13/476;  
A61F 13/5611; A61F 13/4704  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,848,594 A 11/1974 Buell  
3,860,003 A 1/1975 Buell  
4,610,678 A 9/1986 Weisman  
4,662,875 A 5/1987 Hirotsu

(Continued)

FOREIGN PATENT DOCUMENTS

CN 103179935 A 6/2013  
JP 3069885 U 7/2000

(Continued)

OTHER PUBLICATIONS

All Office Actions; U.S. Appl. No. 16/357,685, filed Mar. 19, 2019.

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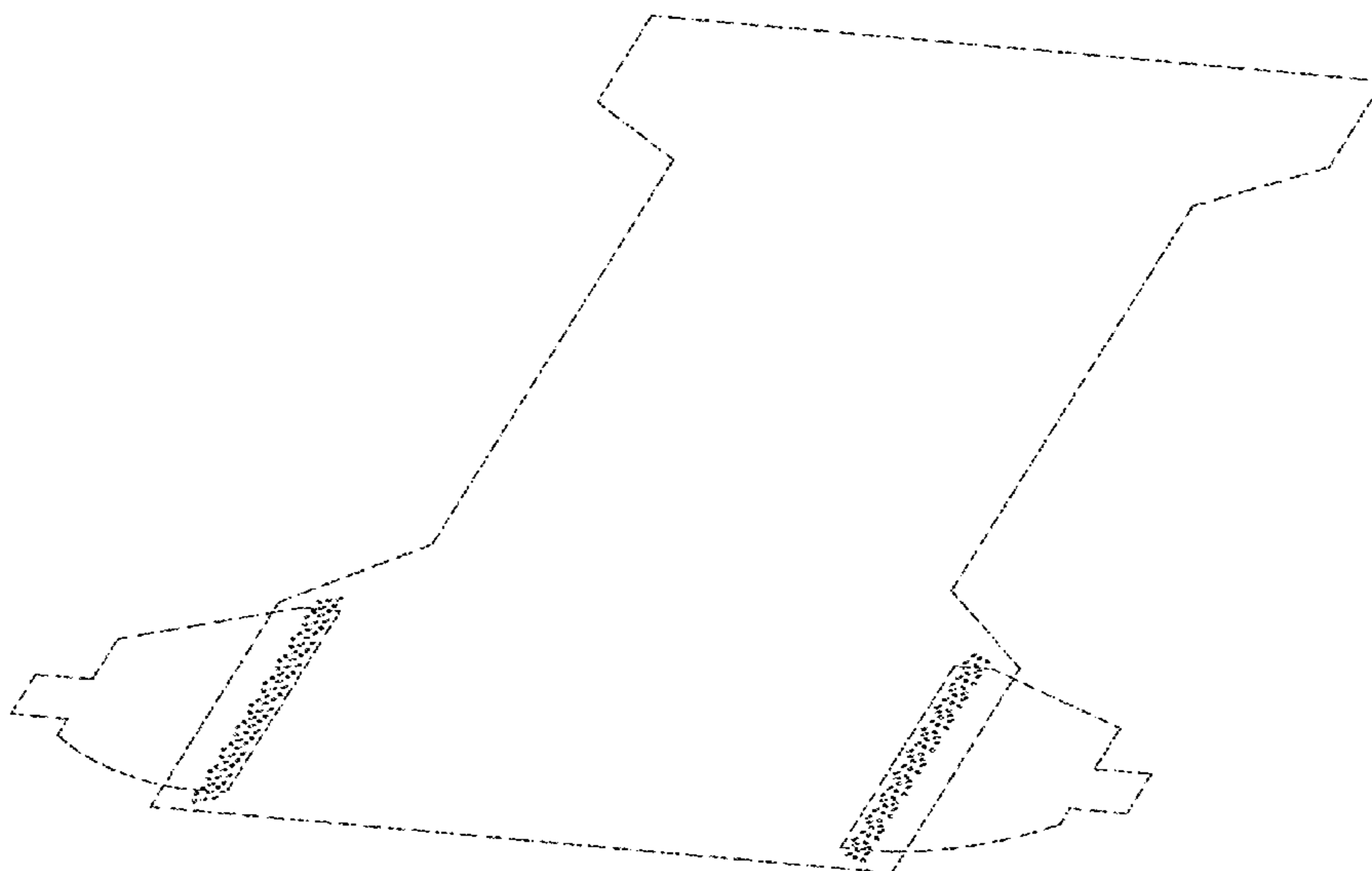
(57) **CLAIM**

The ornamental design for the bond pattern for a substrate,  
as shown and described above.

**DESCRIPTION**

FIG. 1 is a perspective view of a bond pattern for a substrate;  
FIG. 2 is a view of the front side of the bond pattern for a  
substrate of FIG. 1;  
FIG. 3 is a view of the right side of the bond pattern for a  
substrate of FIG. 1;  
FIG. 4 is a view of the back side of the bond pattern for a  
substrate of FIG. 1;  
FIG. 5 is a view of the left side of the bond pattern for a  
substrate of FIG. 1;  
FIG. 6 is a view of the top side of the bond pattern for a  
substrate of FIG. 1; and,  
FIG. 7 is a view of the bottom side of the bond pattern for  
a substrate of FIG. 1.  
The broken lines are included for the purpose of illustrating  
environment and form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



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References Cited

U.S. PATENT DOCUMENTS

4,673,402 A 6/1987 Weisman  
 4,834,735 A 5/1989 Alemany  
 4,846,815 A 7/1989 Scripps  
 4,854,984 A 8/1989 Ball  
 4,888,231 A 12/1989 Angstadt  
 4,892,536 A 1/1990 DesMarais et al.  
 4,894,060 A 1/1990 Nestegard  
 4,919,738 A 4/1990 Ball et al.  
 4,946,527 A 8/1990 Battrell  
 4,990,147 A 2/1991 Freeland  
 5,037,416 A 8/1991 Allen  
 5,137,537 A 8/1992 Herron  
 5,147,345 A 9/1992 Lavon  
 5,151,092 A 9/1992 Buell  
 5,156,793 A 10/1992 Buell  
 5,167,897 A 12/1992 Weber et al.  
 5,221,274 A 6/1993 Buell  
 5,260,345 A 11/1993 Desmarais  
 5,269,775 A 12/1993 Freeland  
 5,342,338 A 8/1994 Roe  
 5,387,207 A 2/1995 Dyer  
 5,397,316 A 3/1995 Young  
 5,554,145 A 9/1996 Roe  
 5,569,234 A 10/1996 Buell  
 5,571,096 A 11/1996 Dobrin  
 5,580,411 A 12/1996 Nease  
 5,607,760 A 3/1997 Roe  
 5,609,587 A 3/1997 Roe  
 5,635,191 A 6/1997 Roe  
 5,643,588 A 7/1997 Roe  
 5,865,823 A 2/1999 Curro  
 5,993,432 A 11/1999 Lodge  
 6,004,306 A 12/1999 Robles  
 6,107,537 A 8/2000 Elder  
 6,120,487 A 9/2000 Ashton  
 6,410,129 B2 6/2002 Zhang  
 6,432,098 B1 8/2002 Kline

6,677,258 B2 1/2004 Carroll  
 6,713,159 B1 3/2004 Blenke  
 6,717,028 B1 4/2004 Oberstadt  
 6,843,134 B2 1/2005 Anderson  
 7,056,404 B2 6/2006 Mcfall et al.  
 7,062,983 B2 6/2006 Anderson  
 7,435,243 B2 10/2008 Miyamoto  
 7,806,883 B2 10/2010 Fossum  
 7,819,853 B2 10/2010 Desai  
 8,062,279 B2 11/2011 Miyamoto  
 8,618,350 B2 12/2013 Mansfield  
 8,795,809 B2 8/2014 Mansfield  
 8,939,957 B2 1/2015 Raycheck  
 9,358,161 B2 6/2016 Lawson et al.  
 D888,943 S \* 6/2020 Naylor ..... D24/126  
 D897,526 S \* 9/2020 Fites ..... D24/126  
 D921,885 S \* 6/2021 Neugebauer ..... D24/126  
 2006/0089616 A1 4/2006 Belau et al.  
 2009/0258210 A1 10/2009 Iyad  
 2012/0316526 A1 12/2012 Rosati et al.  
 2013/0082418 A1 4/2013 Curro  
 2014/0303583 A1 10/2014 Berrizbeitia  
 2015/0126955 A1 5/2015 Sauer  
 2015/0173961 A1 6/2015 Powell  
 2016/0067116 A1 3/2016 Beckman et al.  
 2016/0270972 A1 9/2016 Surushe  
 2017/0056256 A1 3/2017 Smith  
 2018/0042777 A1 2/2018 Dalal  
 2019/0290504 A1 \* 9/2019 Dria ..... A61F 13/515  
 2022/0192896 A1 \* 6/2022 Dalal ..... A61F 13/49011

FOREIGN PATENT DOCUMENTS

JP 5282020 B2 5/2013  
 JP 2014090724 A 5/2014  
 JP 2017063942 A 4/2017  
 WO 9516746 A1 6/1995  
 WO 0217842 A2 3/2002  
 WO 2014168810 A1 10/2014

\* cited by examiner

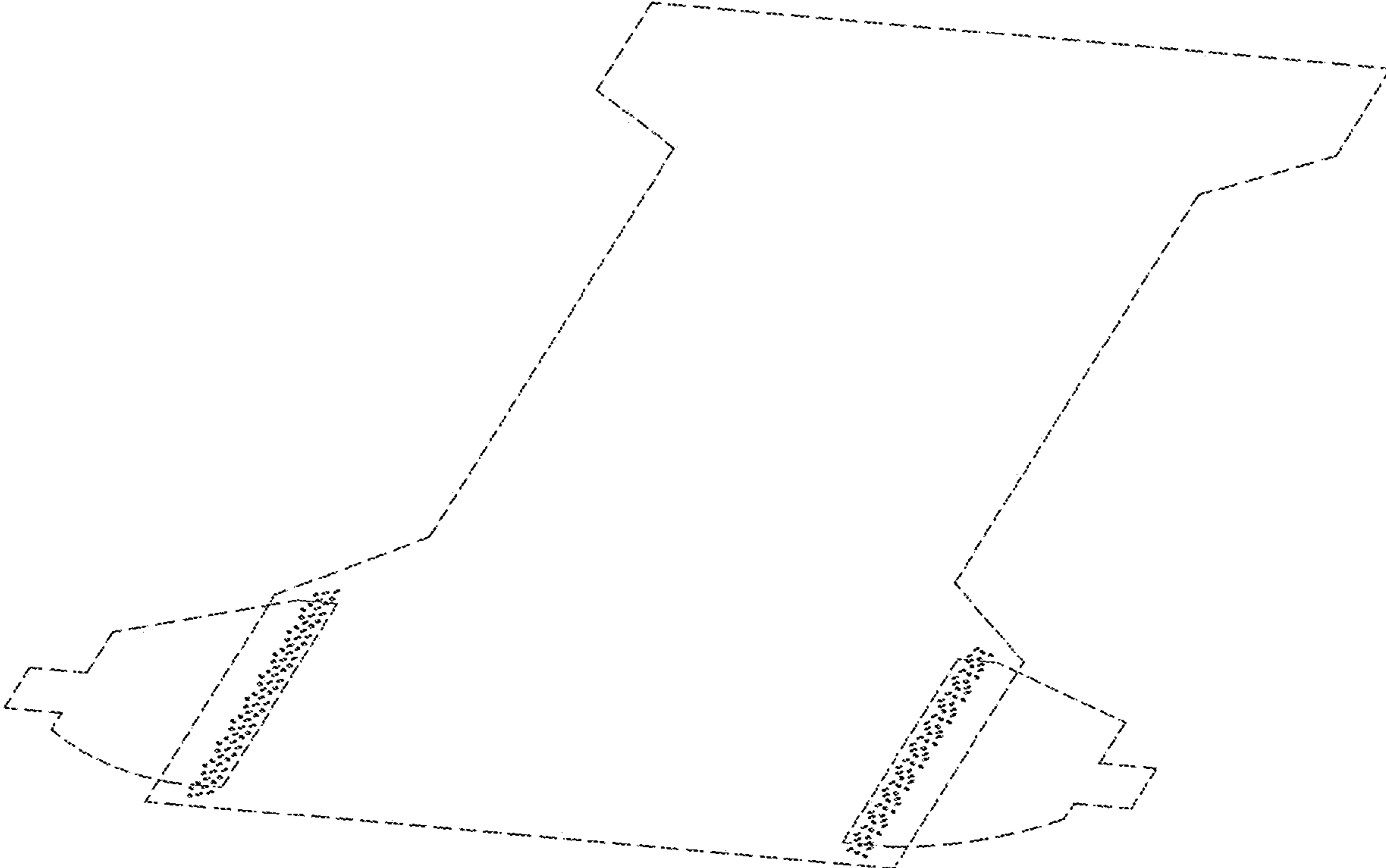


Fig. 1

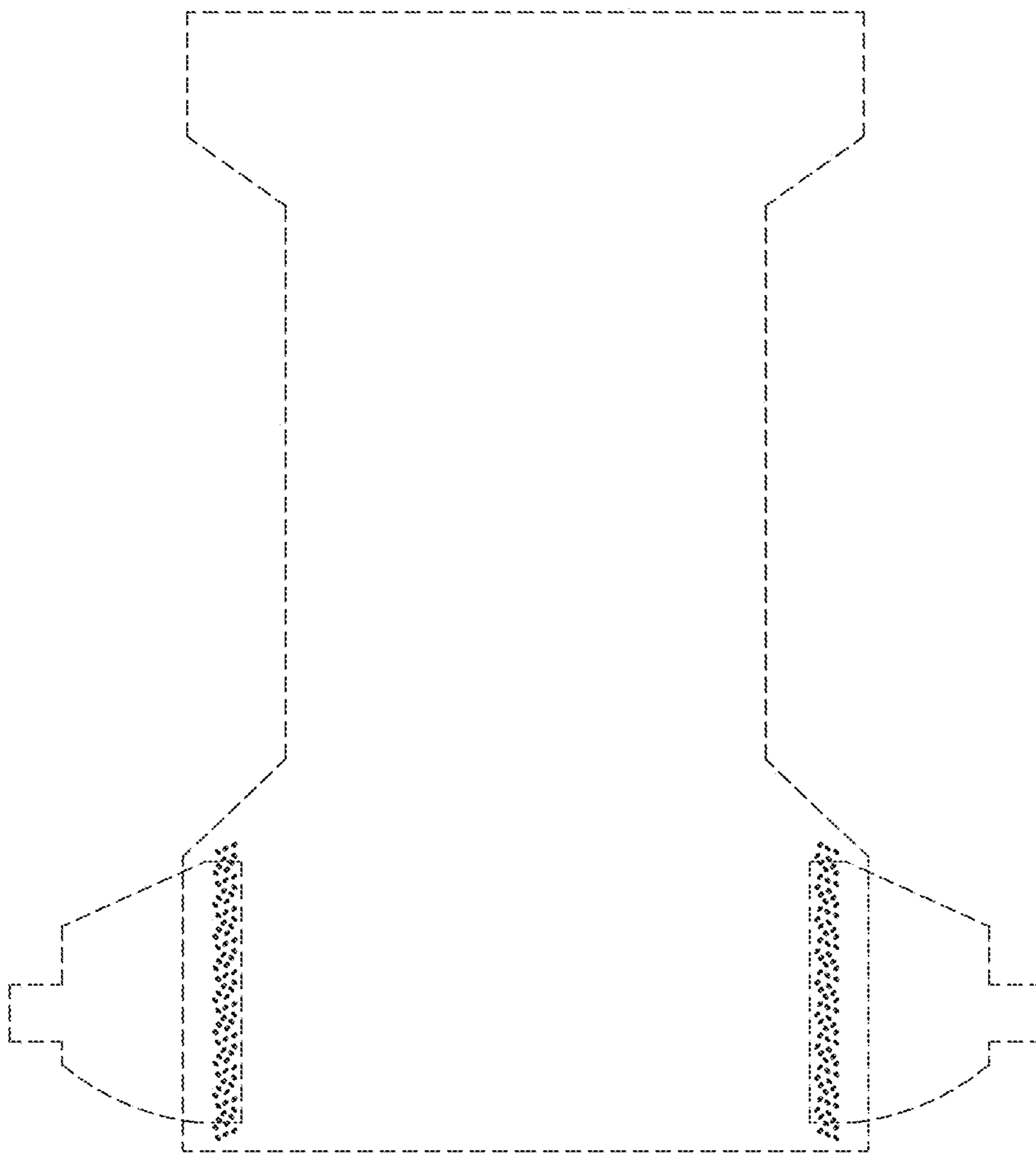


Fig. 2



Fig. 3

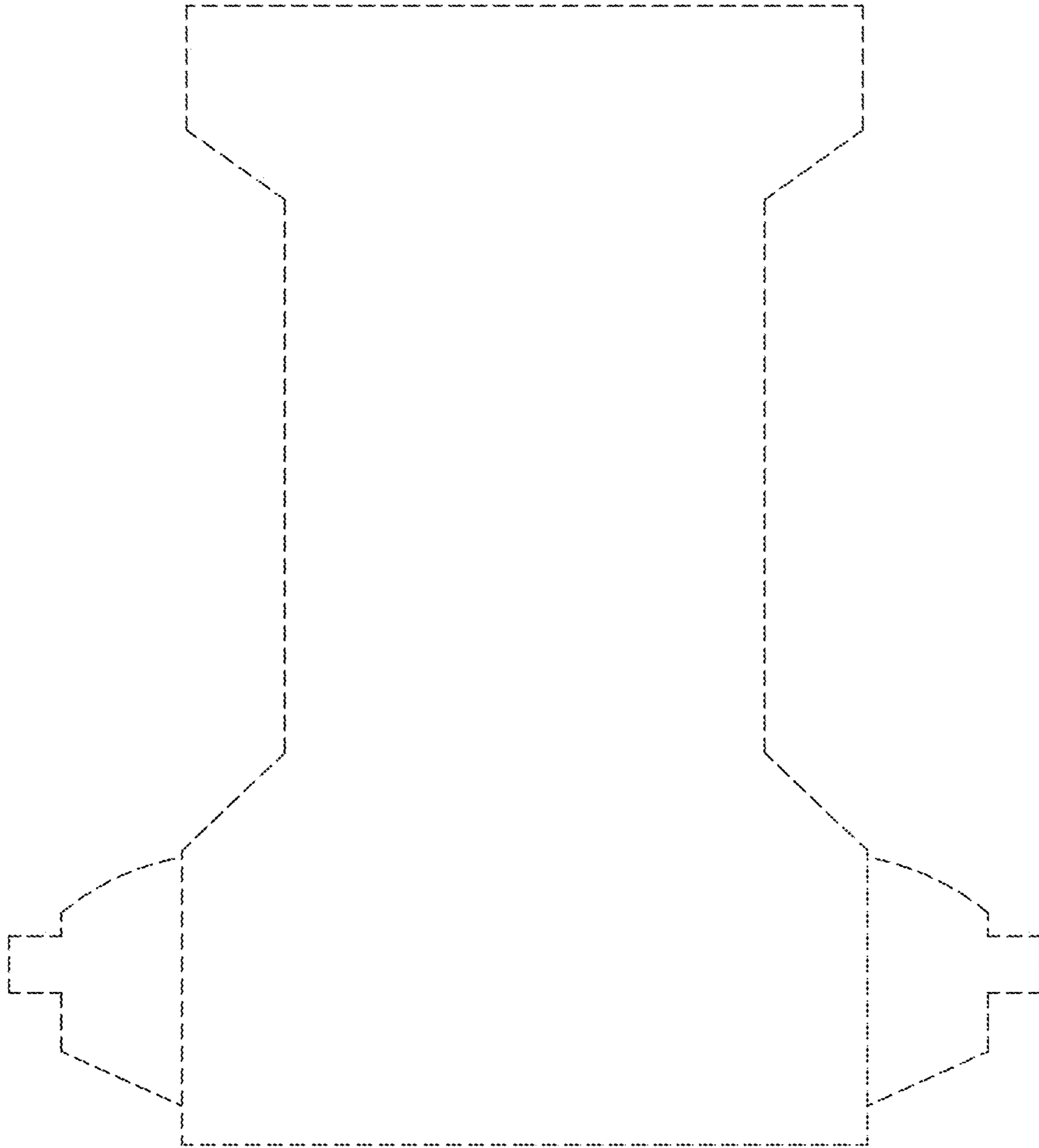


Fig. 4

Fig. 5

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Fig. 6

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Fig. 7