

US00D943748S

(12) **United States Design Patent** (10) **Patent No.:** **US D943,748 S**  
**Dennewald** (45) **Date of Patent:** **\*\* Feb. 15, 2022**

(54) **ORTHOTIC DEVICE**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **DENNEROLL HOLDINGS PTY LTD**, Cromer (AU)

CN 88203329 U 12/1988  
CN 2071030 U 2/1991

(Continued)

(72) Inventor: **Adrian Dennewald**, Waverton (AU)

*Primary Examiner* — Vy N Koenig

(73) Assignee: **DENNEROLL HOLDINGS PTY LIMITED**, Cromer NSW (AU)

(74) *Attorney, Agent, or Firm* — Mackey Law Firm PLLC

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

(57) **CLAIM**

(21) Appl. No.: **29/705,245**

The ornamental design for an orthotic device, as shown and described.

(22) Filed: **Sep. 10, 2019**

**Related U.S. Application Data**

**DESCRIPTION**

(60) Continuation-in-part of application No. 16/107,840, filed on Aug. 21, 2018, and a continuation-in-part of application No. 14/865,730, filed on Sep. 25, 2015, now Pat. No. 10,758,069, said application No. 16/107,840 is a division of application No. 14/865,730, filed on Sep. 25, 2015, now Pat. No. 10,758,069, application No. 29/705,245, which is a continuation-in-part of application No. 29/540,145, filed on Sep. 21, 2015, now Pat. No. Des. 859,664,  
(Continued)

FIG. 1 is a perspective view of one embodiment of an orthotic device according to the disclosure.

FIG. 2 is an end view of the orthotic device of FIG. 2.

FIG. 3 is a front view of the orthotic device of FIG. 2.

FIG. 4 is a rear view of the orthotic device of FIG. 2.

FIG. 5 is a top view of the orthotic device of FIG. 2.

FIG. 6 is a perspective view of another embodiment of an orthotic device according to the disclosure.

FIG. 7 is an end view of the orthotic device of FIG. 6.

FIG. 8 is a front view of the orthotic device of FIG. 6.

FIG. 9 is a rear view of the orthotic device of FIG. 6; and, FIG. 10 is a top view of the orthotic device of FIG. 6.

The dash-dot broken lines in FIGS. 1, 3-5, 6 and 8-10 immediately adjacent to claimed surfaces represent the boundaries of the claimed design and also show portions of the orthotic device that form no part of the claimed design.

The dash-dash broken lines in FIGS. 1-10 show portions of the orthotic device and form no part of the claimed design. None of the broken lines shown in the figures forms any part of the claimed design.

The orthotic device is shown with a symbolic break in its length. The appearance of any portion of the article between the break lines forms no part of the claimed design.

(51) **LOC (13) Cl.** ..... **24-01**

(52) **U.S. Cl.**  
USPC ..... **D24/183**

(58) **Field of Classification Search**  
USPC ..... D24/107, 121, 133, 183, 184, 224-225,  
D24/227, 233; D6/596, 601  
CPC ..... A61G 1/04-048; A61G 5/12-128; B01L  
3/00

See application file for complete search history.

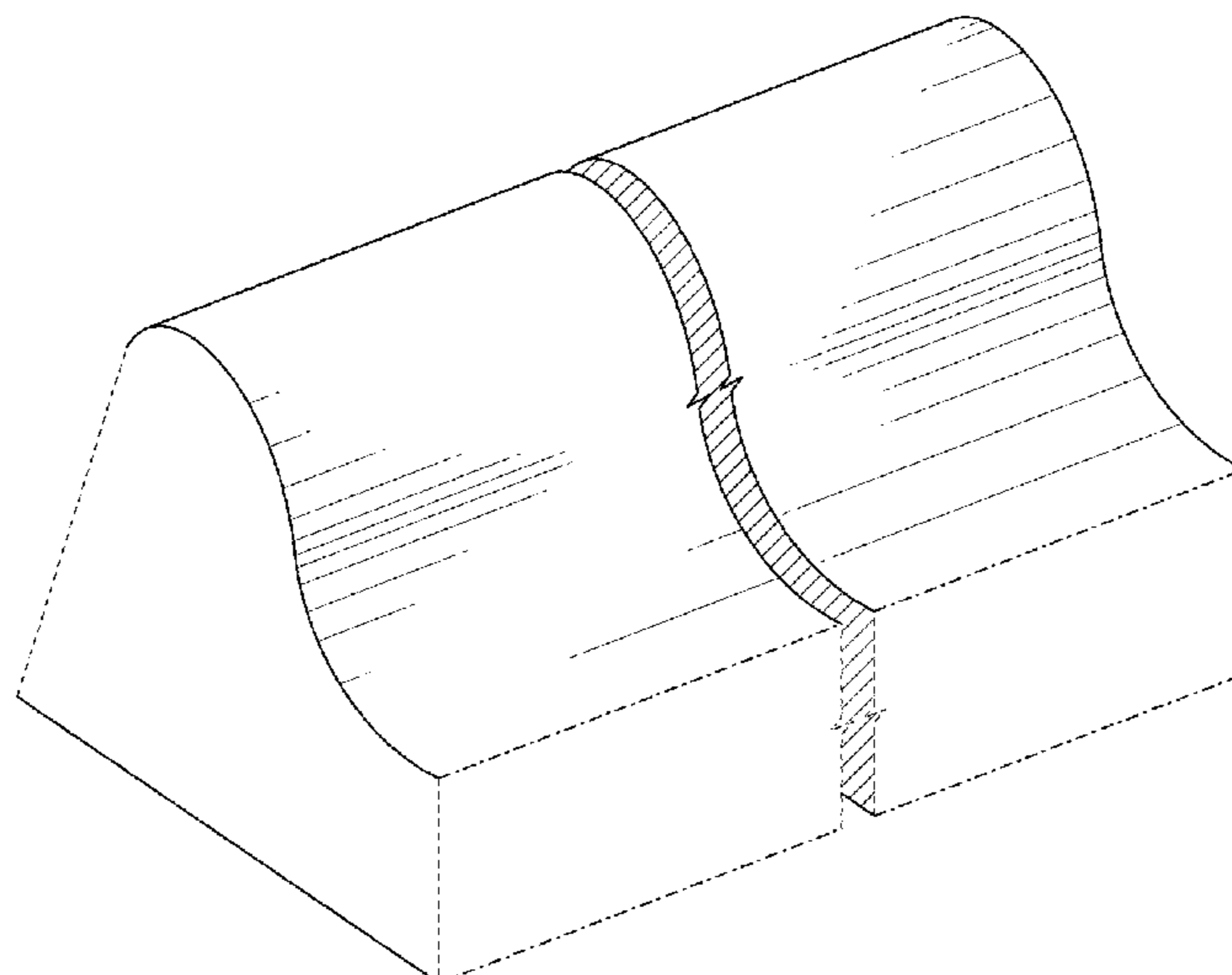
(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,700,779 A 2/1955 Tolkowsky  
2,835,905 A 5/1958 Tomasson

(Continued)

**1 Claim, 6 Drawing Sheets**



**Related U.S. Application Data**

and a continuation-in-part of application No. 29/539,934, filed on Sep. 18, 2015, now Pat. No. Des. 860,463, said application No. 29/540,145 is a continuation-in-part of application No. 12/468,547, filed on May 19, 2009, now Pat. No. 9,186,004, said application No. 29/539,934 is a continuation of application No. 12/468,547, filed on May 19, 2009, now Pat. No. 9,186,004, said application No. 14/865,730 is a continuation of application No. 12/468,547, filed on May 19, 2009, now Pat. No. 9,186,004, which is a division of application No. 11/524,560, filed on Sep. 21, 2006, now abandoned.

(56)

**References Cited**

U.S. PATENT DOCUMENTS

2,880,428 A 4/1959 Forsland  
 3,648,308 A 3/1972 Greenawalt  
 3,829,917 A 8/1974 Da Laittre et al.  
 3,842,453 A 10/1974 Redfield  
 D240,311 S 6/1976 Owens  
 D241,104 S 8/1976 Copeland  
 D245,298 S 8/1977 Brahm  
 D247,406 S 3/1978 Stahl et al.  
 D254,029 S 1/1980 Barbagallo  
 D255,959 S 7/1980 Mitchell  
 D256,408 S 8/1980 Nakisbendi  
 4,218,792 A 8/1980 Kogan  
 D263,439 S \* 3/1982 Grube ..... D24/215  
 4,424,599 A 1/1984 Hannouche  
 D276,938 S 12/1984 Pedersen  
 4,494,261 A 1/1985 Morrow  
 4,550,459 A 11/1985 Endel et al.  
 D286,586 S 11/1986 Radford  
 4,679,263 A 7/1987 Honer  
 4,754,513 A 7/1988 Rinz  
 4,756,090 A 7/1988 Pedrow  
 4,759,089 A 7/1988 Fox  
 4,777,678 A 10/1988 Moore  
 4,805,603 A 2/1989 Cumberland  
 4,821,355 A 4/1989 Burkhardt  
 4,829,614 A 5/1989 Harper  
 4,832,007 A 5/1989 Davis, Jr. et al.  
 4,916,765 A 4/1990 Castronovo, Jr.  
 D308,141 S 5/1990 Genova et al.  
 4,928,335 A 5/1990 Pedrow  
 D310,609 S 9/1990 Burkhardt  
 4,956,886 A 9/1990 Sarkozi  
 D314,284 S 2/1991 Cohen  
 D314,685 S \* 2/1991 Hudson ..... D6/601  
 D317,840 S 7/1991 Jagdat  
 5,123,132 A 6/1992 Dixon  
 5,127,120 A 7/1992 Mason  
 D328,682 S \* 8/1992 Carney ..... D6/601  
 D334,107 S 3/1993 Johnson  
 D337,210 S 7/1993 Silverman  
 5,237,714 A 8/1993 Baron  
 D341,267 S 11/1993 Caldwell  
 5,279,310 A 1/1994 Hsien  
 D361,905 S 9/1995 Adams et al.  
 5,457,832 A 10/1995 Tatum  
 5,481,771 A 1/1996 Burk, IV  
 D366,966 S 2/1996 Bonaddio et al.  
 D370,821 S 6/1996 Mata  
 D372,805 S 8/1996 Bonaddio et al.  
 D375,417 S 11/1996 Bonaddio et al.  
 5,630,651 A 5/1997 Fishbane  
 5,644,809 A \* 7/1997 Olson ..... A47G 9/1081  
 5/636  
 5,662,597 A 9/1997 Chitwood  
 5,694,726 A 12/1997 Wu  
 5,727,267 A 3/1998 Keilhauer  
 5,797,154 A 8/1998 Contreras

5,819,485 A 10/1998 Lane et al.  
 D400,386 S 11/1998 Keilhauer  
 D400,387 S 11/1998 Denney  
 D404,238 S 1/1999 Keilhauer  
 D405,854 S 2/1999 Grant  
 D410,744 S 6/1999 Banister  
 5,916,185 A 6/1999 Chitwood  
 D417,579 S \* 12/1999 Tarquinio ..... D6/601  
 6,000,401 A 12/1999 Herrick  
 D418,897 S 1/2000 Rembles  
 D444,560 S 7/2001 Berglund  
 D447,253 S 8/2001 Gardner  
 D447,577 S 9/2001 Gardner  
 D447,805 S \* 9/2001 Siegal ..... D24/183  
 D448,228 S \* 9/2001 Davis ..... D6/601  
 D448,581 S 10/2001 Branch  
 D448,582 S 10/2001 Branch  
 6,345,401 B1 2/2002 Frydman  
 D454,180 S 3/2002 Wessels  
 6,381,784 B1 5/2002 Davis et al.  
 D458,049 S 6/2002 Prins et al.  
 D461,649 S 8/2002 Prins et al.  
 6,446,288 B1 9/2002 Pi  
 6,471,726 B2 10/2002 Wang  
 D473,063 S 4/2003 Pappas  
 D480,484 S 10/2003 Kakhiani  
 D484,618 S 12/2003 Kakhiani  
 D486,247 S 2/2004 Eichner et al.  
 6,704,957 B2 3/2004 Rhodes  
 D491,282 S 6/2004 Kakhiani  
 6,751,818 B2 6/2004 Troop  
 6,817,049 B1 11/2004 Hall  
 D499,816 S 12/2004 Eichner et al.  
 D510,631 S 10/2005 Hsu  
 7,013,512 B1 3/2006 Hsu  
 D518,576 S 4/2006 Sevier et al.  
 D521,301 S 5/2006 Dickson  
 7,082,633 B1 8/2006 Maarbjerg  
 D531,315 S 10/2006 Caudra  
 7,210,178 B2 \* 5/2007 DiGirolamo ..... A47G 9/1081  
 5/636  
 D551,355 S 9/2007 Tao  
 D555,408 S 11/2007 Keilhauer  
 D555,741 S \* 11/2007 Wachtfogel ..... D21/662  
 D573,830 S 7/2008 Kalatsky  
 D595,527 S 7/2009 Carter  
 D597,743 S 8/2009 Skinner  
 D608,102 S \* 1/2010 Kemm ..... D6/361  
 D615,210 S 5/2010 Woodhams et al.  
 D618,354 S 6/2010 Francucci et al.  
 D619,404 S 7/2010 Castillo  
 D623,305 S 9/2010 Tao  
 D634,961 S \* 3/2011 Lowery ..... D6/601  
 D635,265 S 3/2011 Coffey et al.  
 D635,271 S 3/2011 Azar et al.  
 D637,030 S 5/2011 Khandai  
 D638,646 S 5/2011 Penza  
 D646,498 S 10/2011 Blasini et al.  
 D651,368 S 12/2011 Seliskar et al.  
 D664,256 S 7/2012 Dennewald  
 D665,503 S 8/2012 Dennewald  
 D672,879 S 12/2012 Hawkins  
 D678,539 S 3/2013 Narson  
 8,393,027 B2 3/2013 Weisberg  
 D680,654 S 4/2013 Borreli  
 D681,994 S 5/2013 Morgan, II  
 D684,394 S 6/2013 Leemkuil  
 D688,379 S 8/2013 Ehlers  
 D701,710 S 4/2014 Martinez  
 8,713,732 B2 5/2014 Dennewald  
 D708,754 S 7/2014 Harangvolgyi  
 D710,021 S 7/2014 Blaine et al.  
 D715,452 S 10/2014 Schiavon  
 D736,397 S 8/2015 McAviney et al.  
 D739,036 S 9/2015 McAviney et al.  
 9,186,004 B2 11/2015 Dennewald  
 D745,786 S 12/2015 Ko  
 D748,406 S 2/2016 Pham  
 D751,314 S 3/2016 Meyer

(56)

**References Cited**

U.S. PATENT DOCUMENTS

D758,100 S \* 6/2016 Pham ..... D6/601  
D764,062 S 8/2016 Dennewald  
D804,598 S \* 12/2017 Albert ..... D21/797  
D859,664 S \* 9/2019 Dennewald ..... D24/183  
2004/0006822 A1 1/2004 Milligan  
2004/0068799 A1 4/2004 Wilson  
2004/0194214 A1 10/2004 Troop  
2005/0060807 A1 3/2005 Kaizuka  
2005/0177944 A1 8/2005 Kang et al.  
2007/0101503 A1 5/2007 Dennewald  
2007/0113348 A1 5/2007 Ramaiah  
2008/0115284 A1 5/2008 Hiatt  
2014/0076330 A1 3/2014 Rolle et al.

FOREIGN PATENT DOCUMENTS

CN 2505048 Y 8/2002  
CN 2812877 Y 9/2006  
CN 2824881 Y 10/2006  
CN 2850576 Y 12/2006

\* cited by examiner

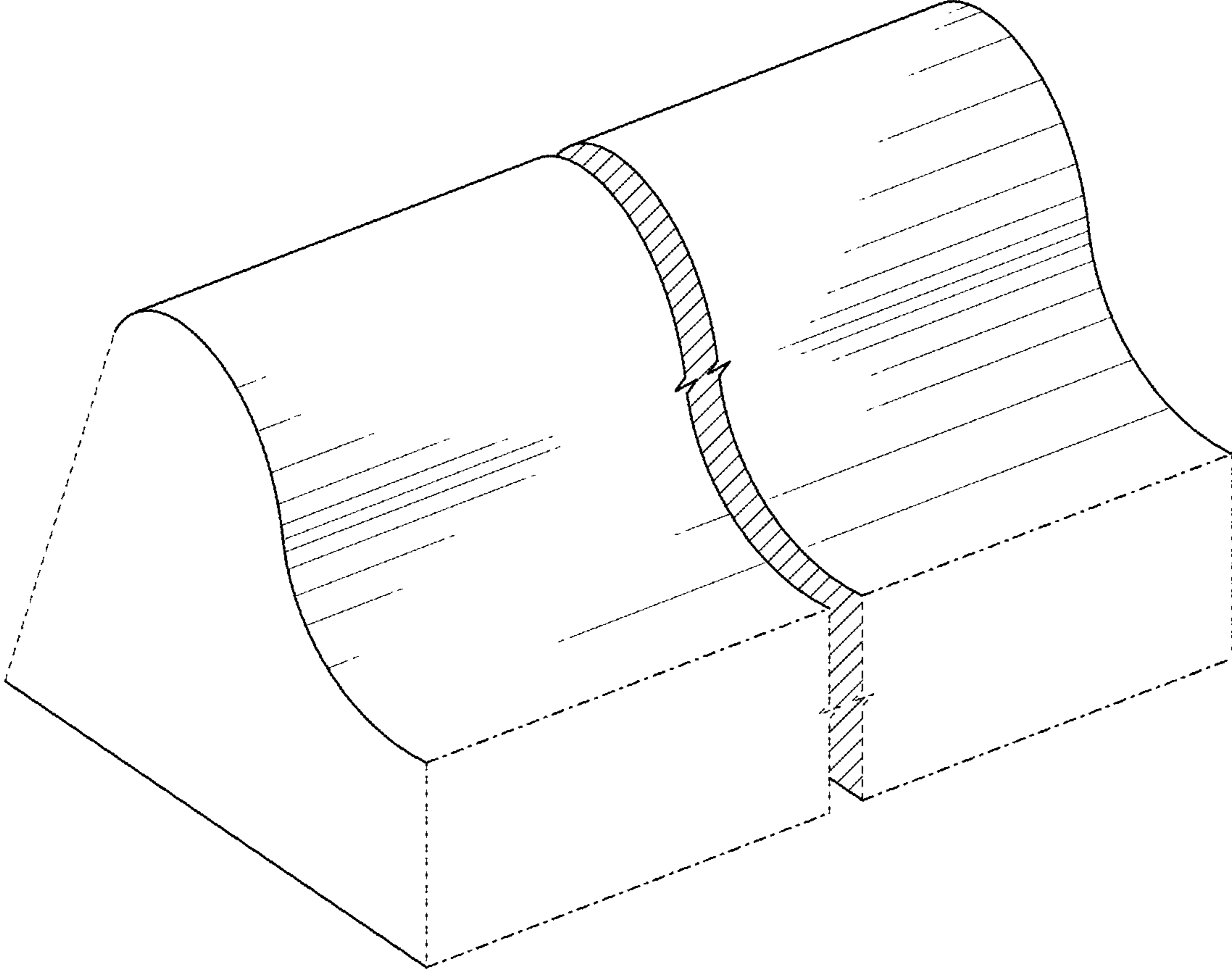


FIG. 1

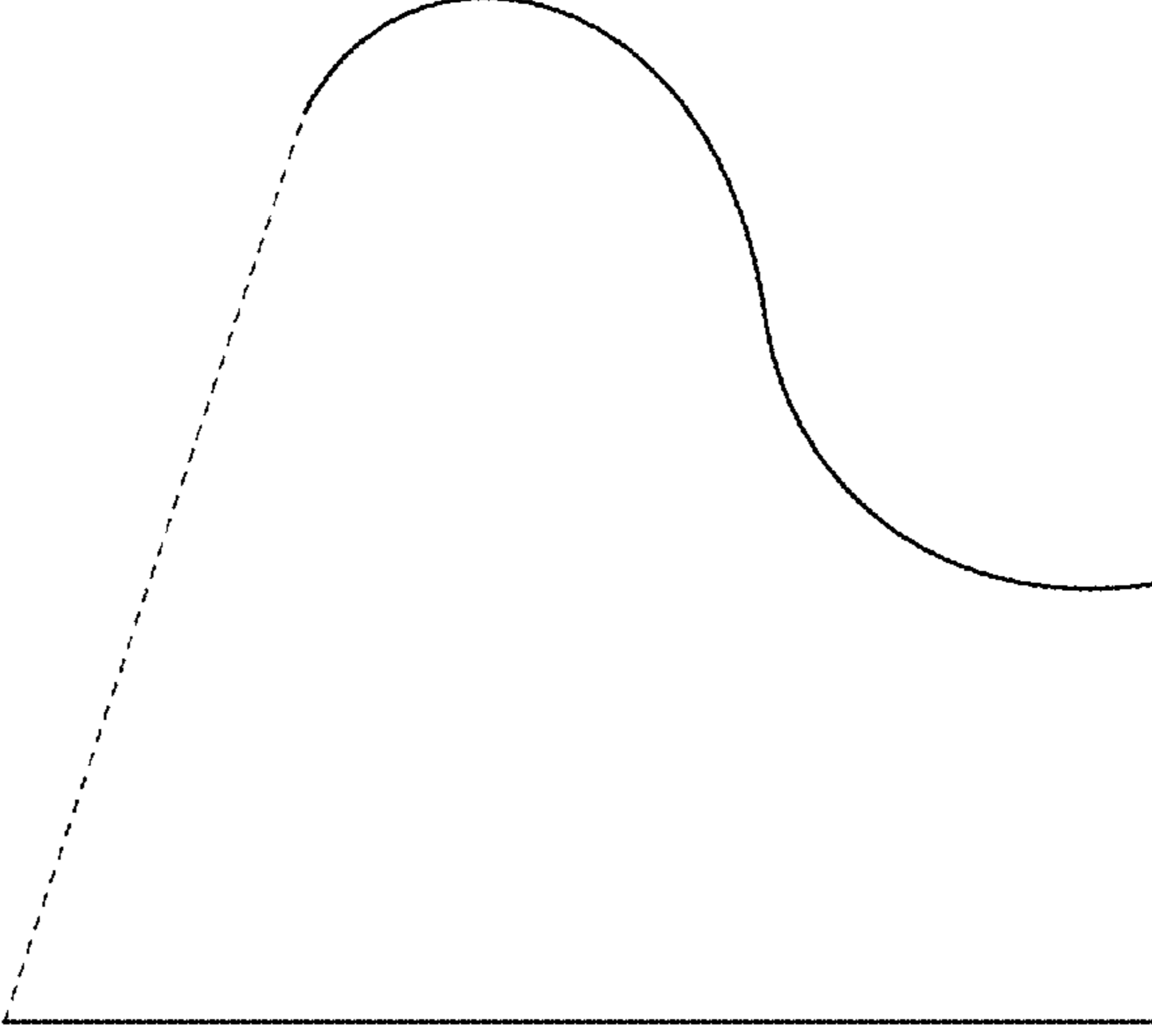


FIG. 2

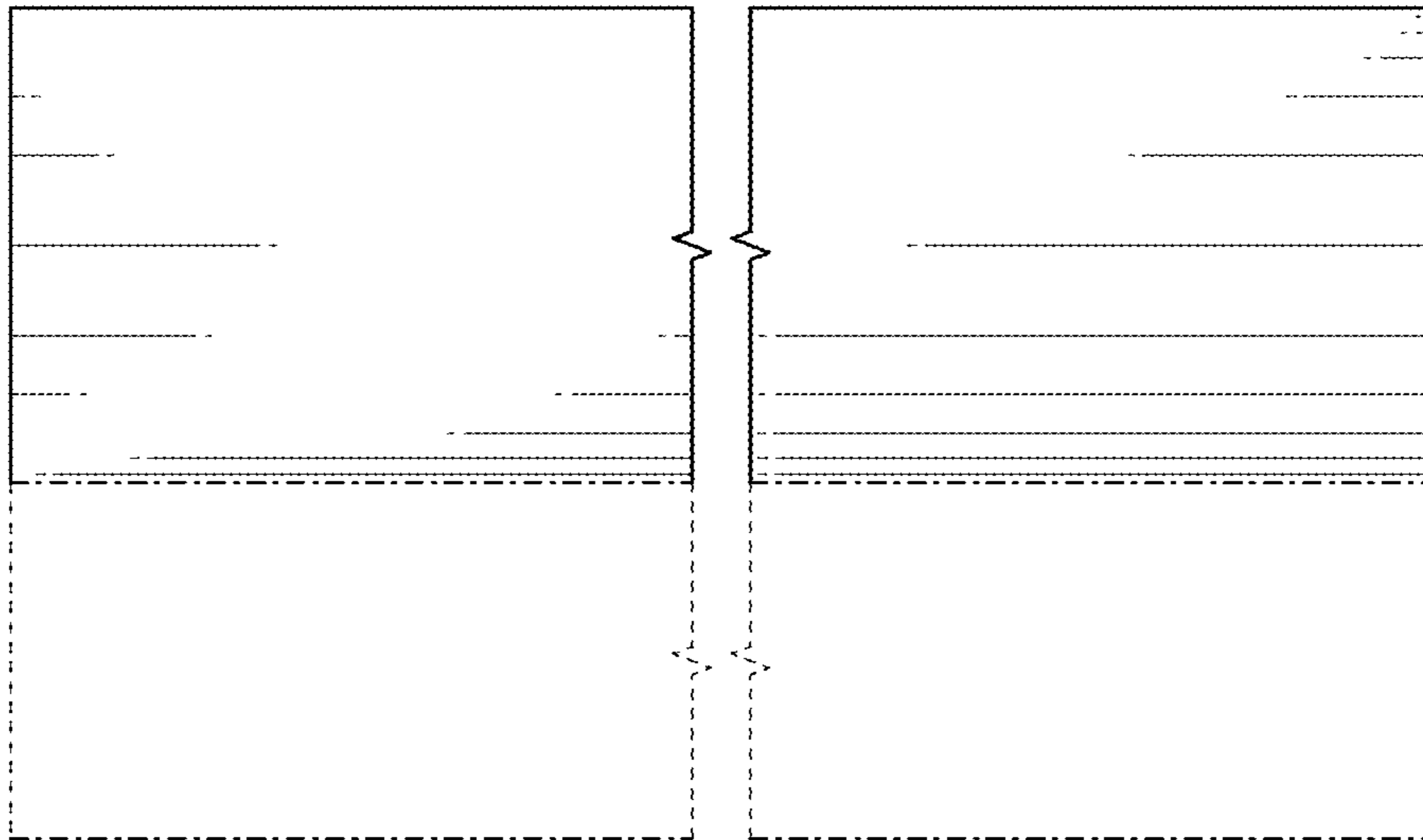


FIG. 3

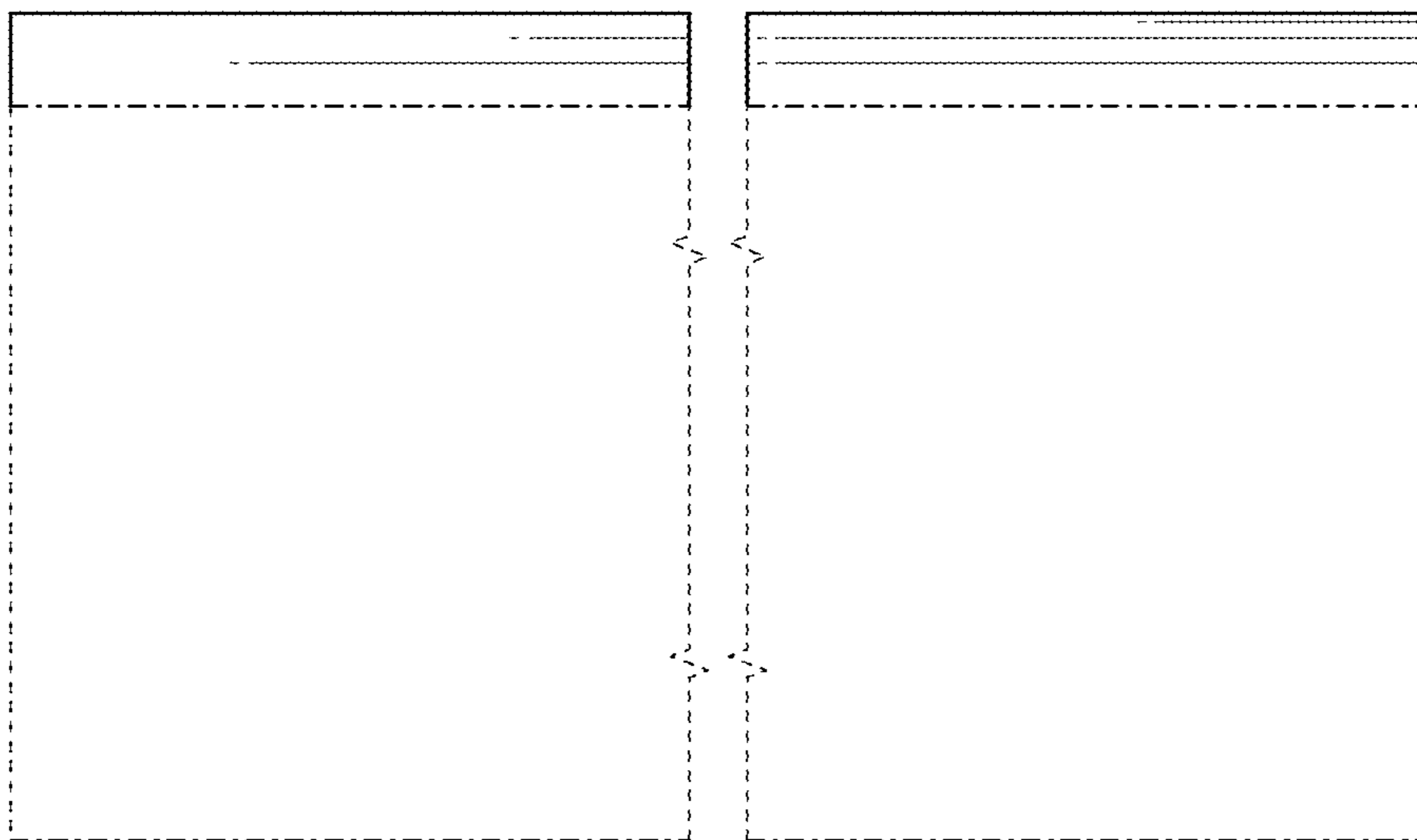


FIG. 4

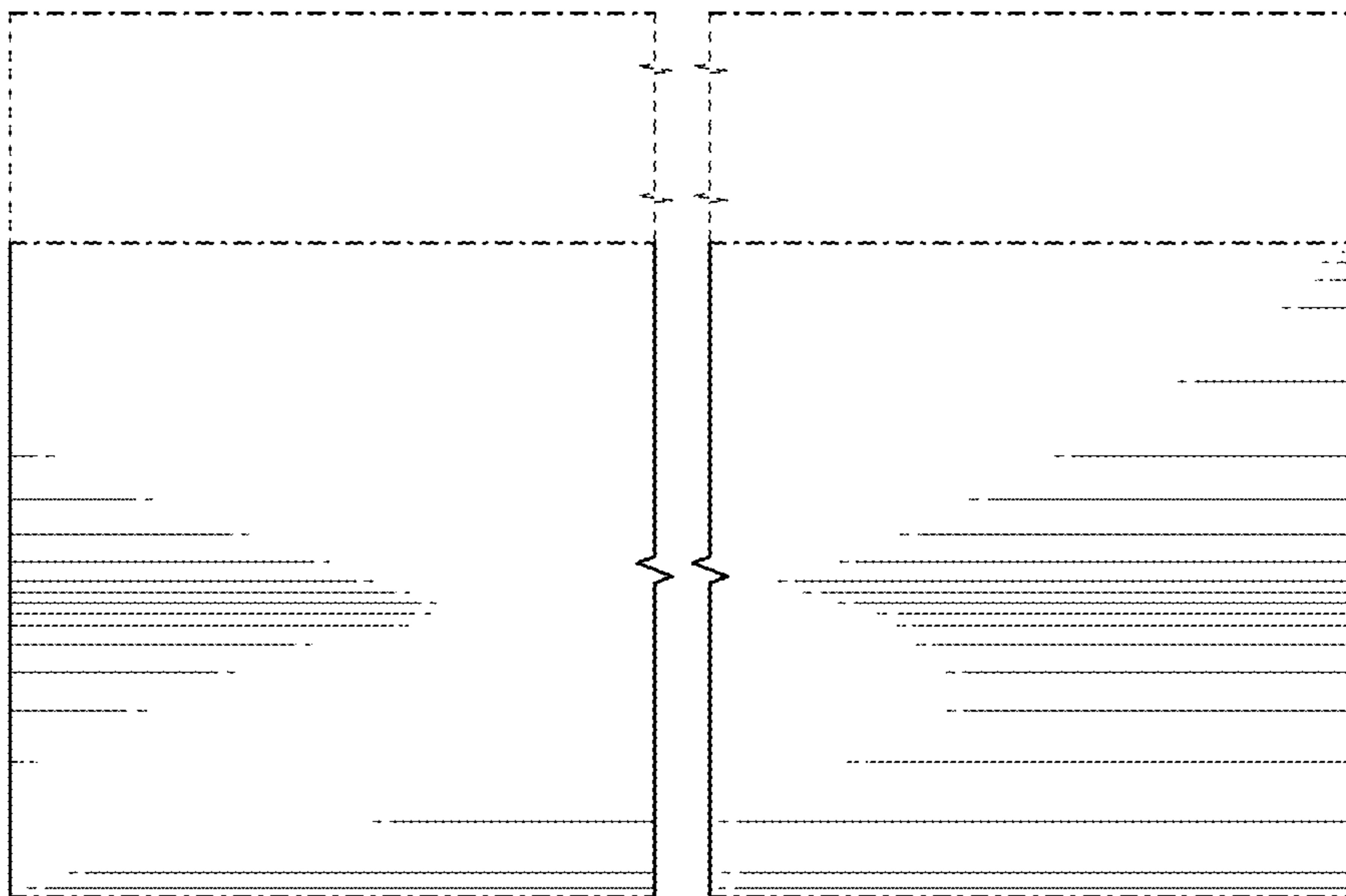


FIG. 5

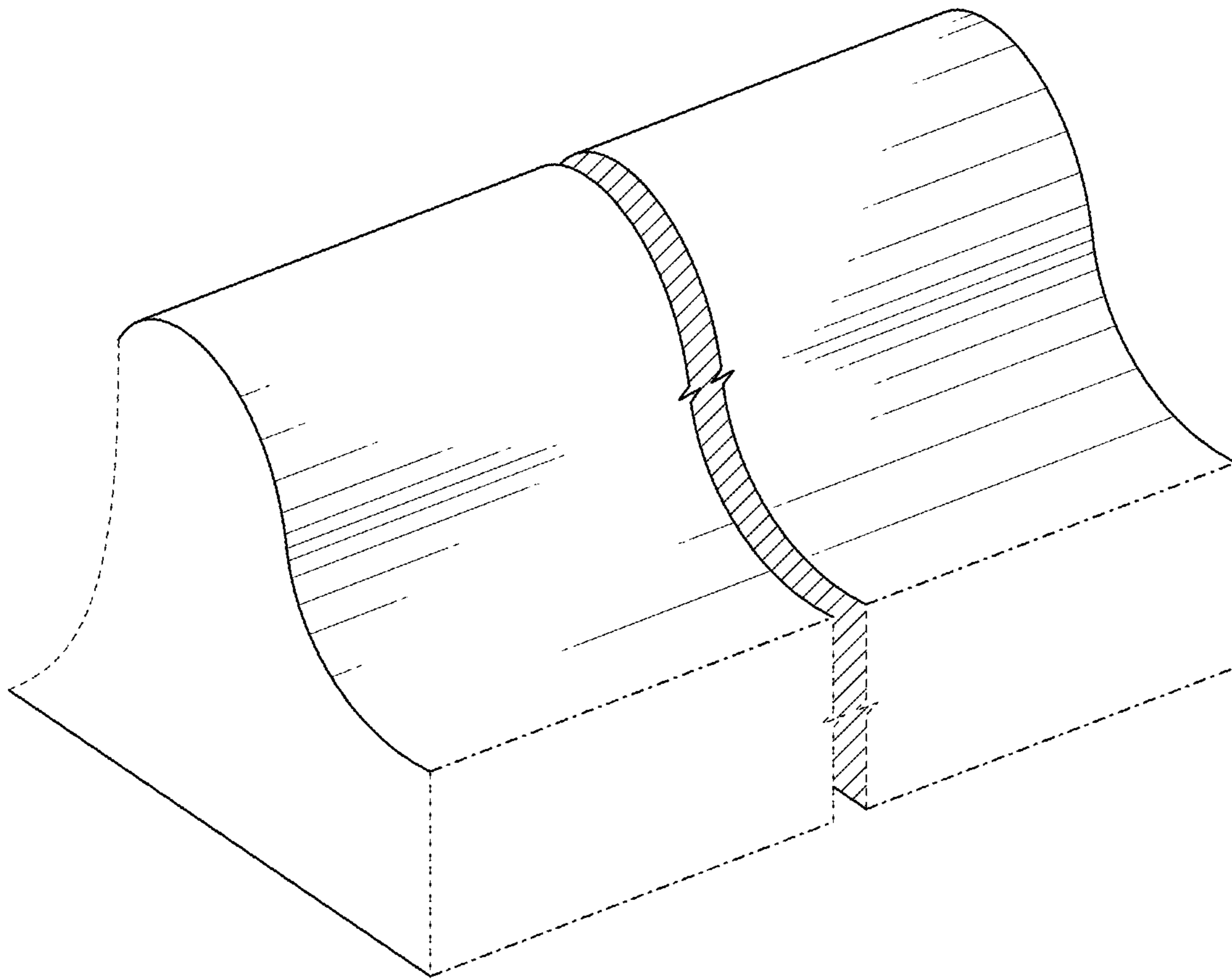


FIG. 6

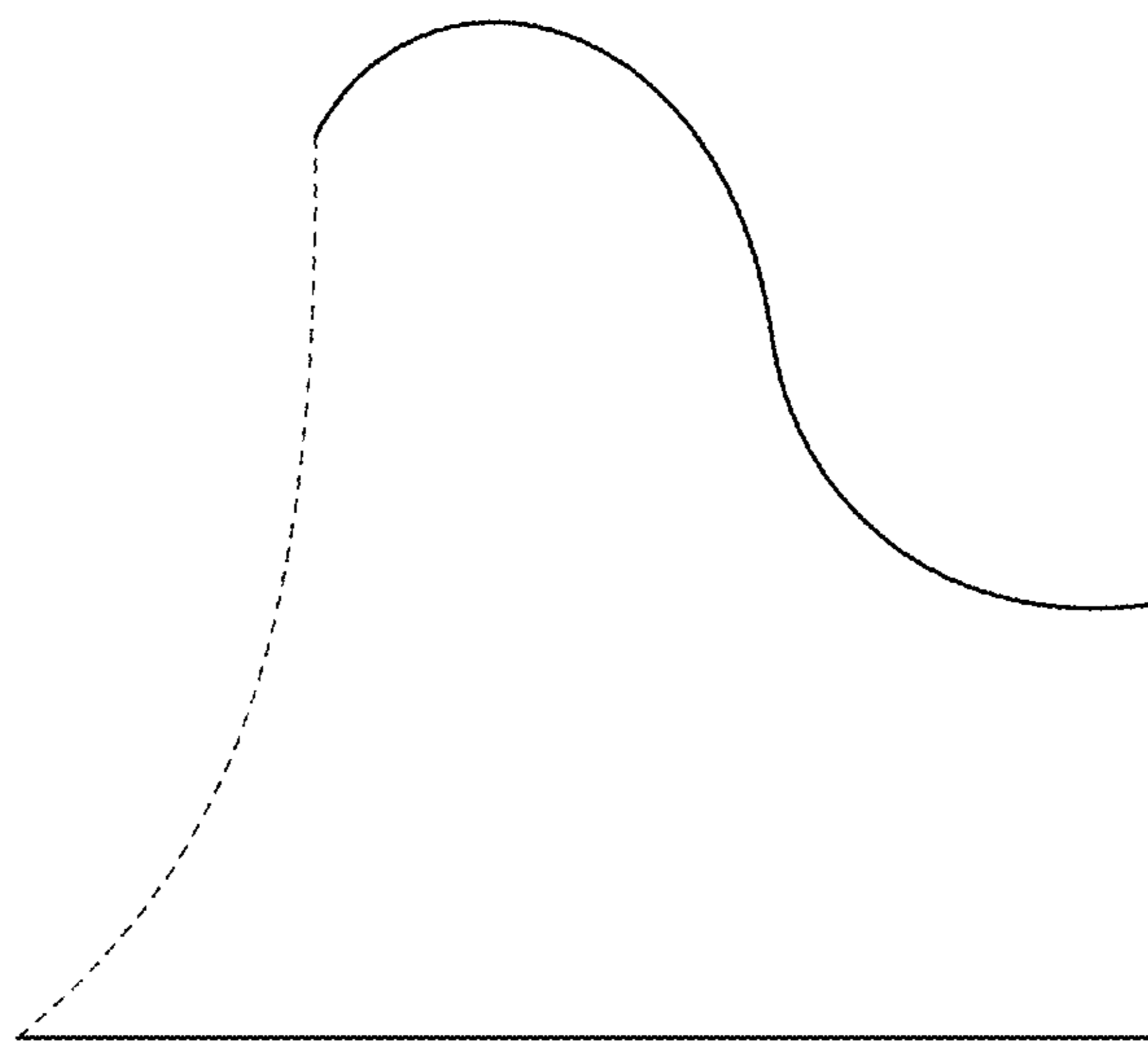


FIG. 7

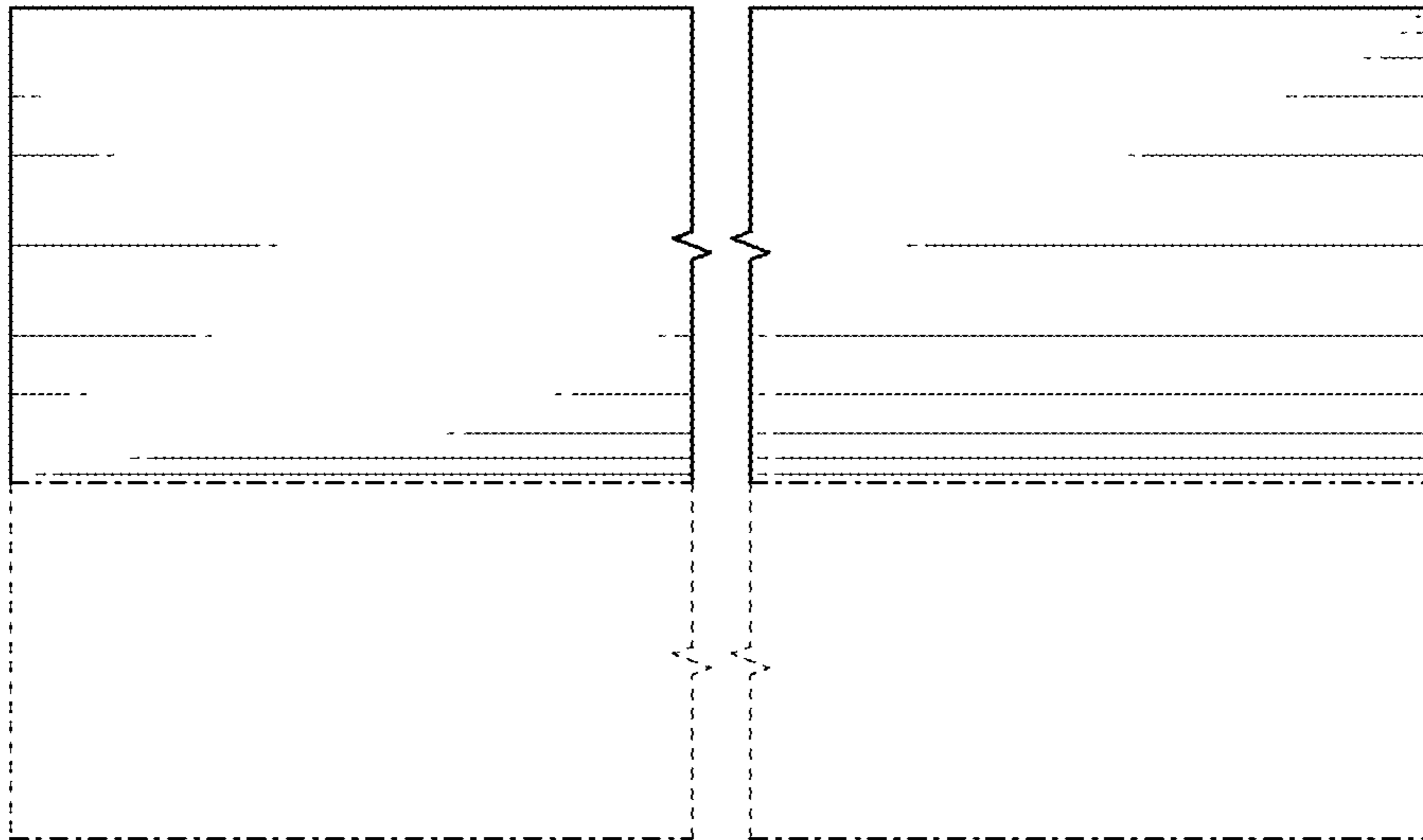


FIG. 8

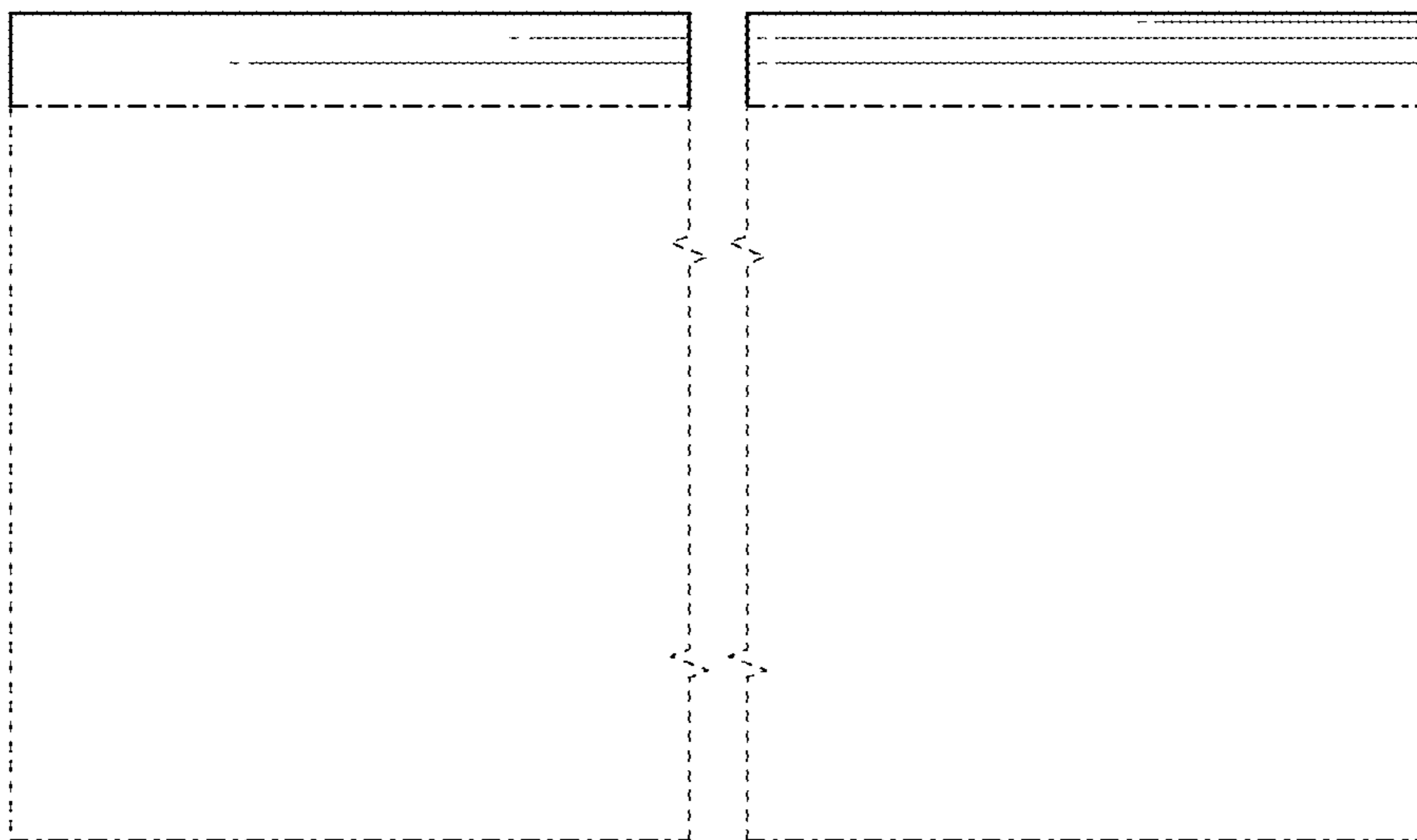


FIG. 9



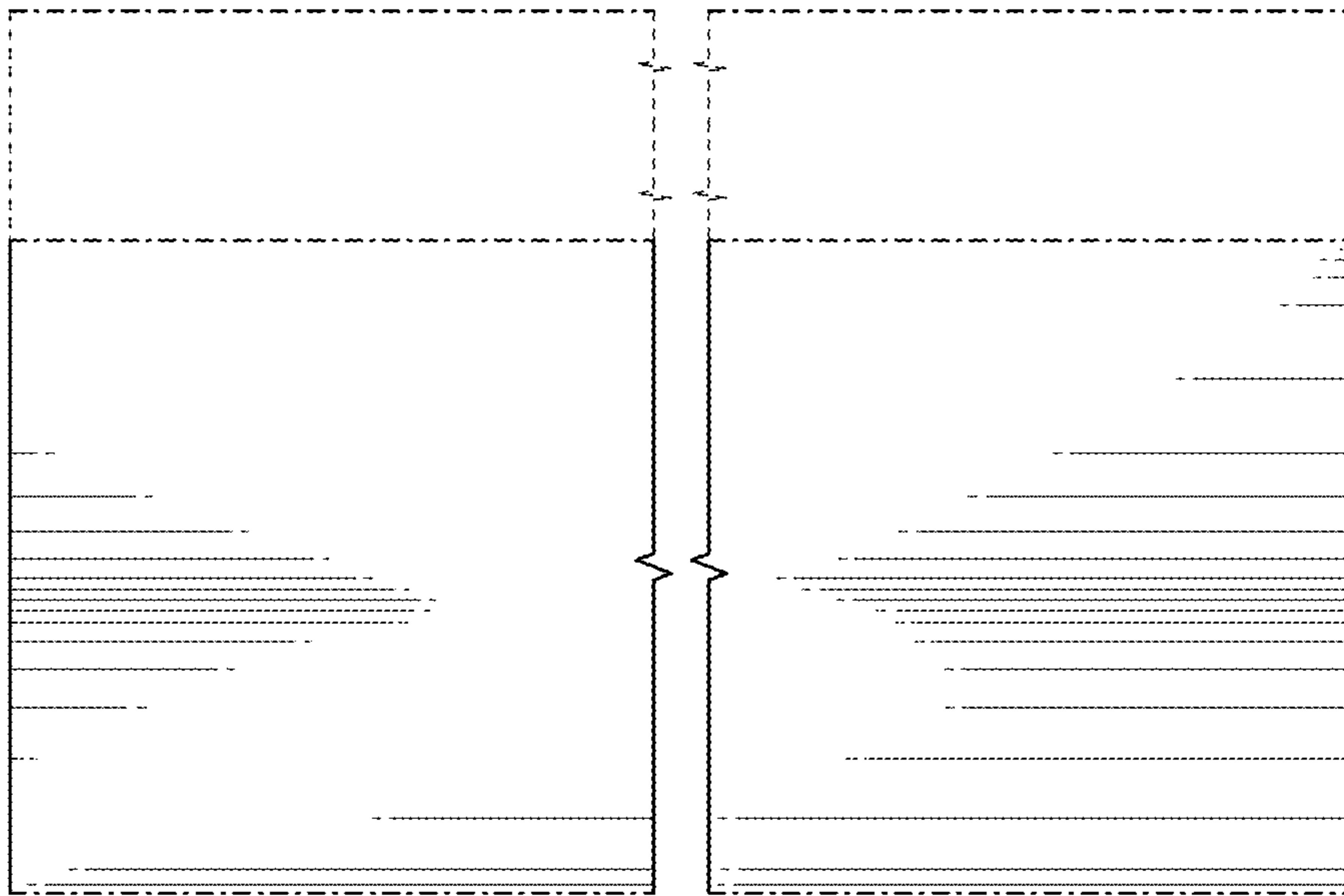


FIG. 10