



US00D983405S

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

(10) **Patent No.:** **US D983,405 S**
(45) **Date of Patent:** **** Apr. 11, 2023**

- (54) **MICROFLUIDIC CHIP**
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- (**) Term: **15 Years**
- (21) Appl. No.: **29/778,796**
- (22) Filed: **Apr. 15, 2021**
- (51) **LOC (14) Cl.** **24-02**
- (52) **U.S. Cl.**
USPC **D24/224; D24/225**
- (58) **Field of Classification Search**
USPC D24/168, 169, 186, 187, 200, 216, D24/223–227, 230, 232, 233; D10/81
CPC A61B 5/0002; A61B 5/042; A61B 5/0404; A61B 5/0416; C40B 40/06; B01L 3/00; B01L 3/502715
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,955,028	A *	9/1999	Chow	.....	B01L 9/527	436/171
D621,060	S *	8/2010	Handique	.....	D24/225	
D669,191	S *	10/2012	Handique	.....	D24/225	
D879,999	S *	3/2020	Wronko	.....	D24/225	
2006/0057245	A1 *	3/2006	Haupt	.....	B01L 3/502707	425/589
2009/0166201	A1 *	7/2009	Tian	.....	G01N 27/44743	204/453

2010/0216126	A1 *	8/2010	Balachandran	.....	B01F 33/30	422/82
2013/0256132	A1 *	10/2013	Chen	.....	C12Q 1/006	204/403.02
2014/0332377	A1 *	11/2014	Su	.....	G01N 27/3272	204/403.01

(Continued)

FOREIGN PATENT DOCUMENTS

GB 9001208888-0003 * 5/2010

OTHER PUBLICATIONS

How microfluidics can automate drug discovery and development. Online, published day May 17, 2021. Retrieved on Sep. 11, 2022 from URL: <https://www.drugtargetreview.com/article/91542/how-microfluidics-can-automate-drug-discovery-and-development/>.*

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(57) **CLAIM**

The ornamental design for a microfluidic chip, as shown and described.

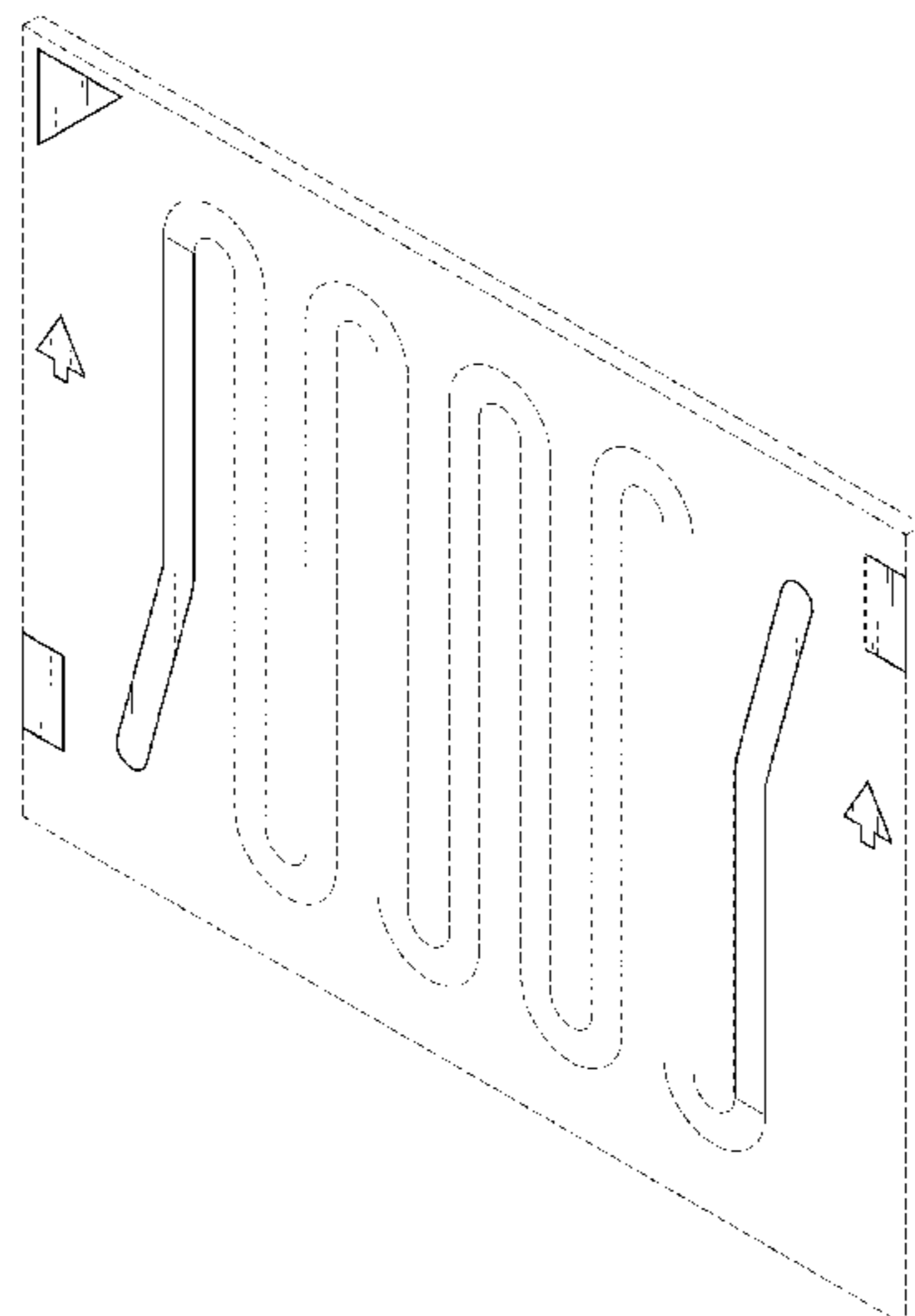
DESCRIPTION

FIG. 1 is a front, top, right perspective view of a microfluidic chip, showing the claimed design; FIG. 2 is a front elevation view thereof; FIG. 3 is a rear elevation view thereof; FIG. 4 is a left side elevation view thereof; FIG. 5 is a right side elevation view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof.

The dashed broken lines, the areas within them, and the areas bounded by both dashed lines and solid lines depict portions of the microfluidic chip that form no part of the claimed design.

The dot-dash broken lines in the drawing depict the boundaries of the claim and form no part thereof.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2017/0010259 A1* 1/2017 Amoabediny B01L 3/502
2017/0240945 A1* 8/2017 Marquant G01N 27/3272
2020/0221987 A1* 7/2020 Liu A61B 5/14532
2020/0238282 A1* 7/2020 Burns B01L 3/502715
2020/0249232 A1* 8/2020 Konstantopoulos
G01N 33/5091
2022/0088604 A1* 3/2022 Yu B01L 3/00

* cited by examiner

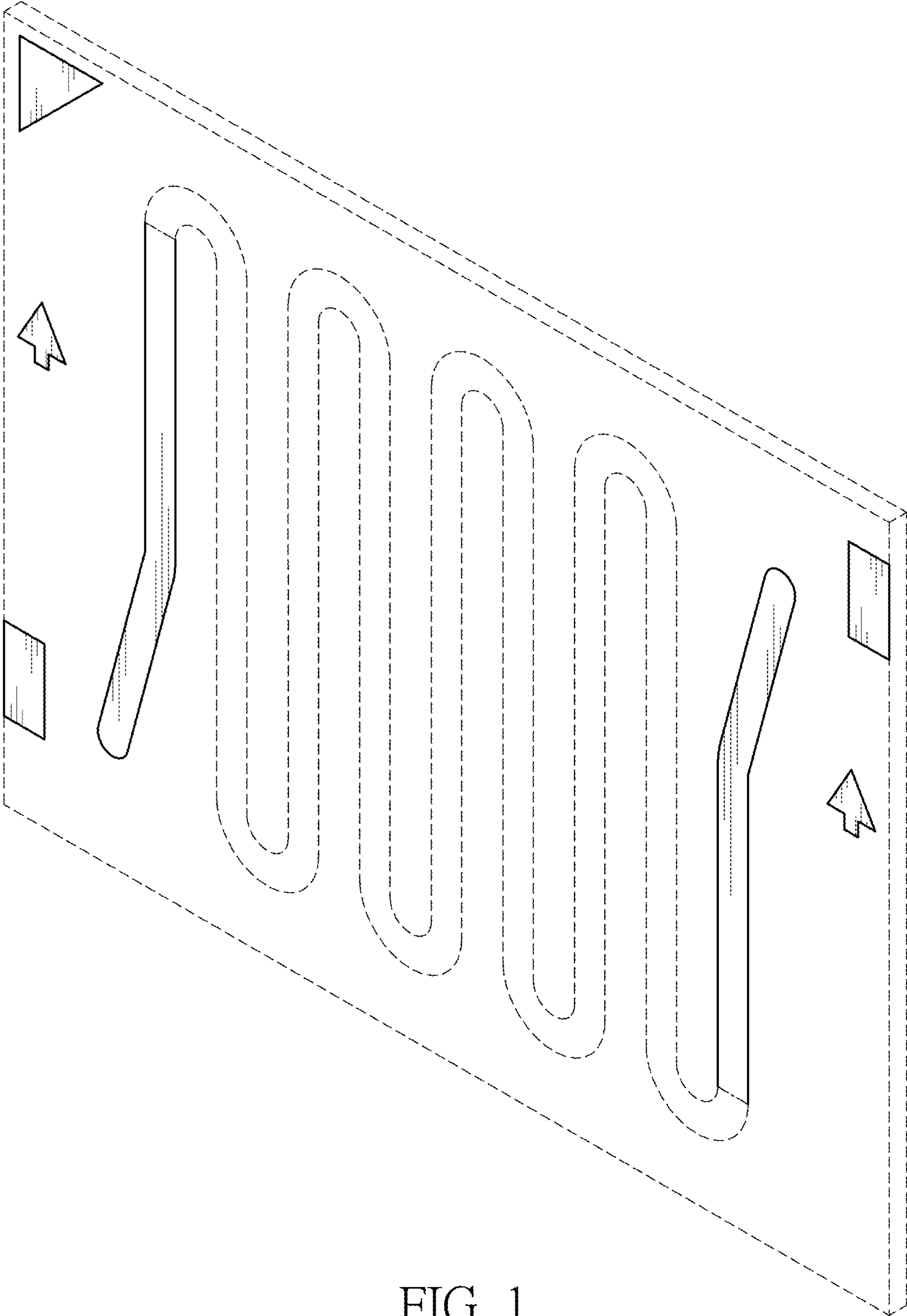


FIG. 1

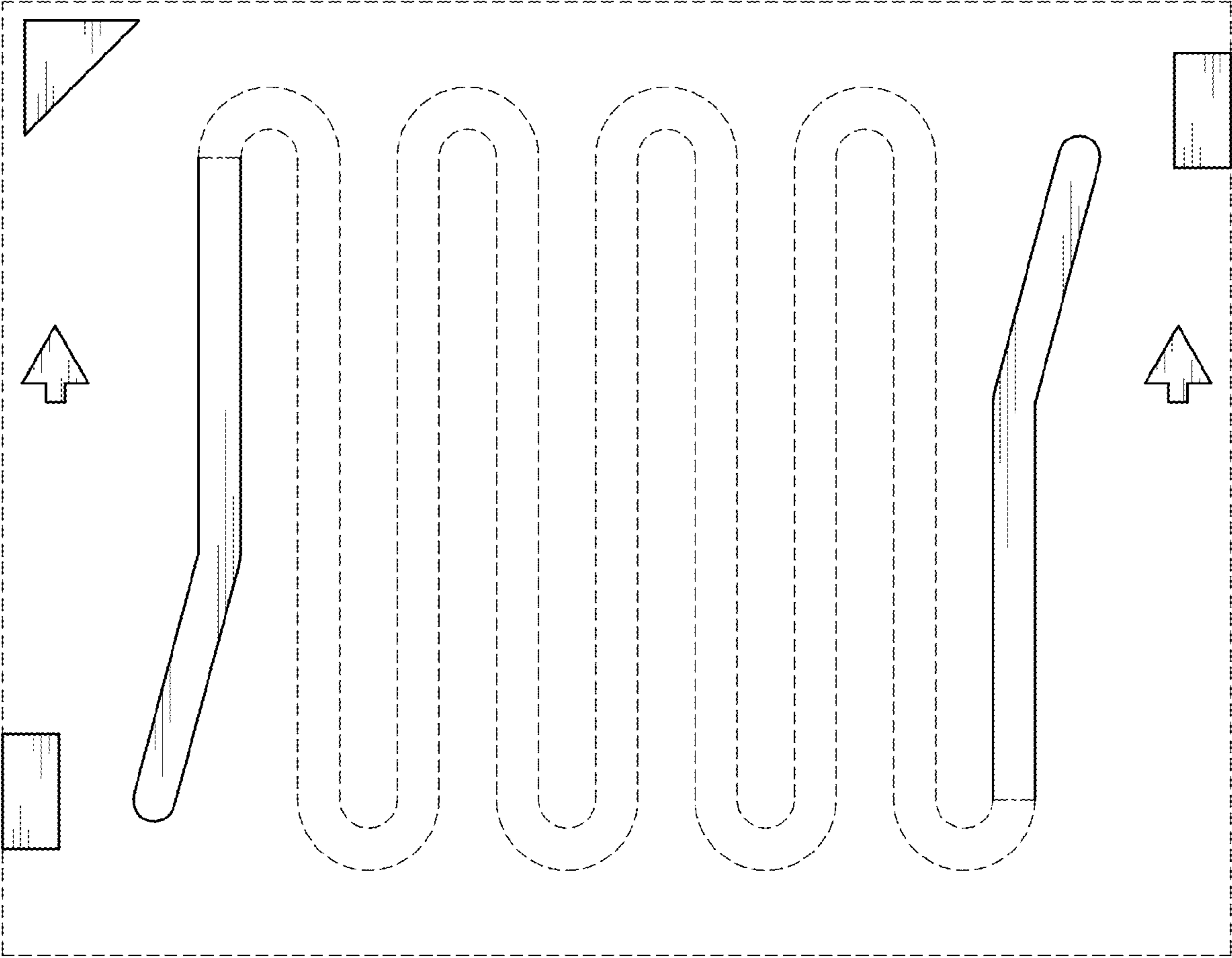


FIG. 2



FIG. 3

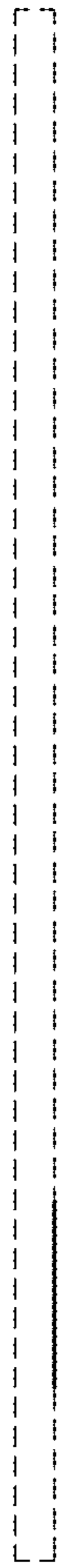


FIG. 4

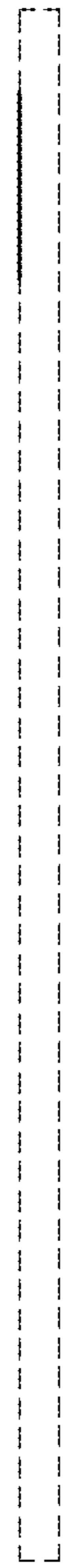


FIG. 5



FIG. 6

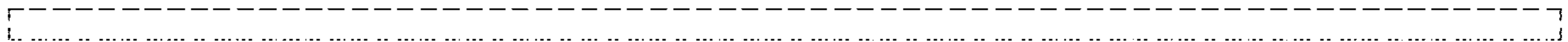


FIG. 7