



US00D804647S

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

(10) **Patent No.:** **US D804,647 S**
(45) **Date of Patent:** **** Dec. 5, 2017**

- (54) **FAN BLADE**
- (71) Applicant: **DELTA ELECTRONICS, INC.**,
Taoyuan (TW)
- (72) Inventors: **Shun-Chen Chang**, Taoyuan (TW);
Chia-Ming Hsu, Taoyuan (TW);
Chao-Fu Yang, Taoyuan (TW)
- (73) Assignee: **DELTA ELECTRONICS, INC.**,
Taoyuan (TW)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/553,457**
- (22) Filed: **Feb. 2, 2016**
- (51) **LOC (10) Cl.** **23-04**
- (52) **U.S. Cl.**
USPC **D23/413**
- (58) **Field of Classification Search**
USPC D23/370, 377, 379, 381, 382, 385, 411,
D23/413, 414, 332, 328; D26/59;
D15/5, 7; D13/179
CPC F04D 25/08; F04D 29/388; F04D 29/34;
F04D 25/088; H02K 1/187
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,568,242 A	2/1986	Susa et al.	
5,320,493 A *	6/1994	Shih	F04D 29/386 416/223 R
D463,021 S *	9/2002	Huang	D23/413
D485,904 S *	1/2004	Tsai	D23/413
D486,572 S *	2/2004	Chen	D23/413
D509,584 S *	9/2005	Li	D23/413
D556,893 S *	12/2007	Lee	D23/413
D556,894 S *	12/2007	Lee	D23/413
D564,653 S *	3/2008	Iwase	D23/413
D570,471 S *	6/2008	Iwase	D23/413
D570,996 S *	6/2008	Harman	D23/413
D645,134 S *	9/2011	Lee	D23/411

8,128,372 B2 *	3/2012	Best	F04D 29/329 416/207
D681,188 S *	4/2013	Hu	D23/413
D725,251 S *	3/2015	Hamada	D12/214
D727,490 S *	4/2015	Hatz	D23/413

(Continued)

FOREIGN PATENT DOCUMENTS

CN	101008401 A	8/2007
TW	585227 U	4/2004
TW	M509855 U	10/2015

OTHER PUBLICATIONS

Shun-Chen Chang et al., "Fan", U.S. Appl. No. 29/548,254, filed Dec. 11, 2015.

Primary Examiner — Janice Hallmark

(74) *Attorney, Agent, or Firm* — CKC & Partners Co., Ltd.

(57) **CLAIM**

The ornamental design for a fan blade, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a fan blade showing our new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

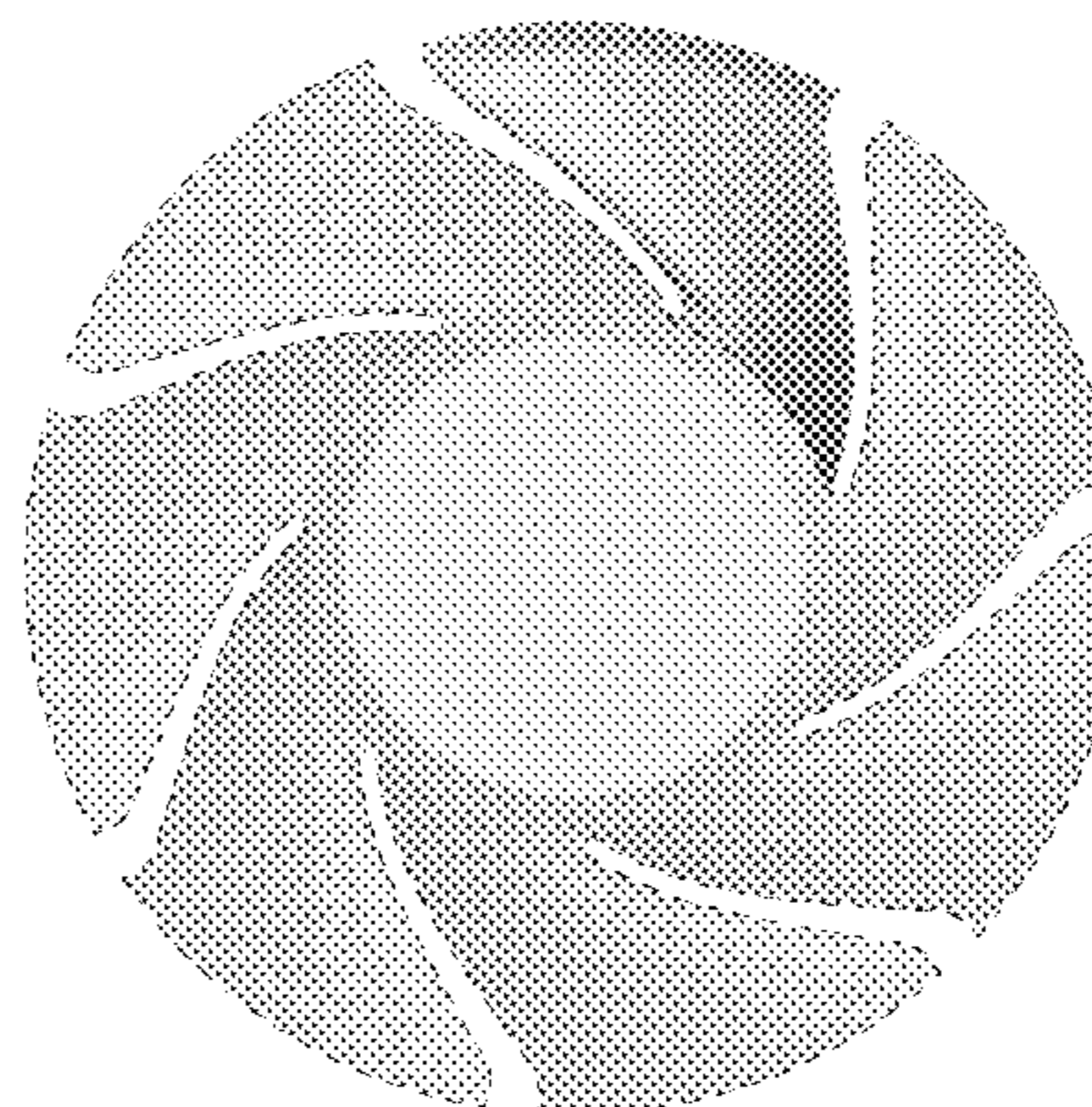
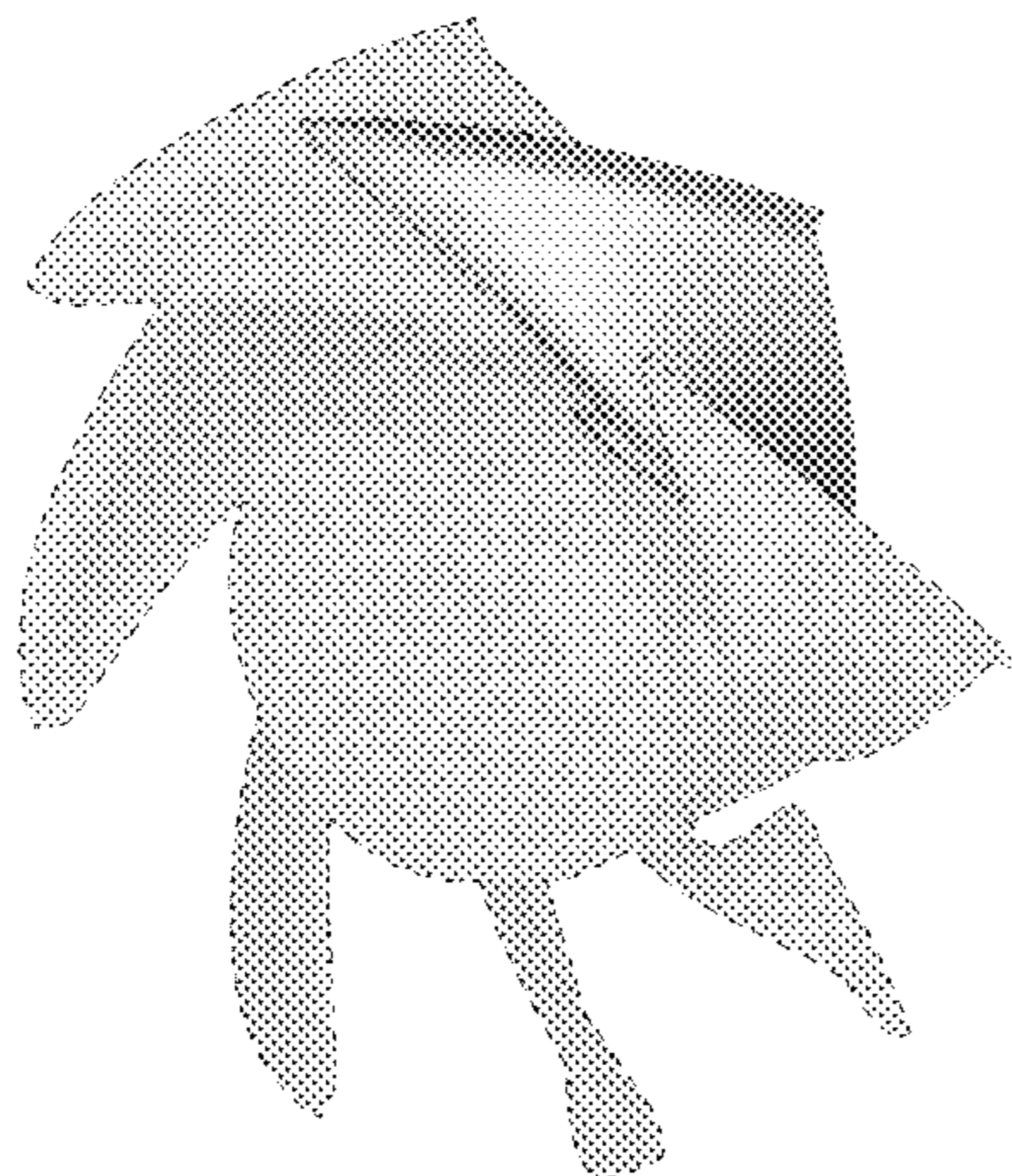
FIG. 7 is a bottom plan view thereof; and,

FIG. 8 is another perspective view thereof.

Shading is used to illustrate the curvature of the part and not color.

The claimed design is indicated by the relatively dark portions in the drawings, while the relatively light portions enclosed by broken lines are environmental and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D750,211 S * 2/2016 Arai D23/379
D755,945 S * 5/2016 Arai D23/379
2010/0260608 A1* 10/2010 Suzuki F04D 29/326
416/204 R
2016/0186774 A1* 6/2016 Manicke B29C 70/38
416/230

* cited by examiner

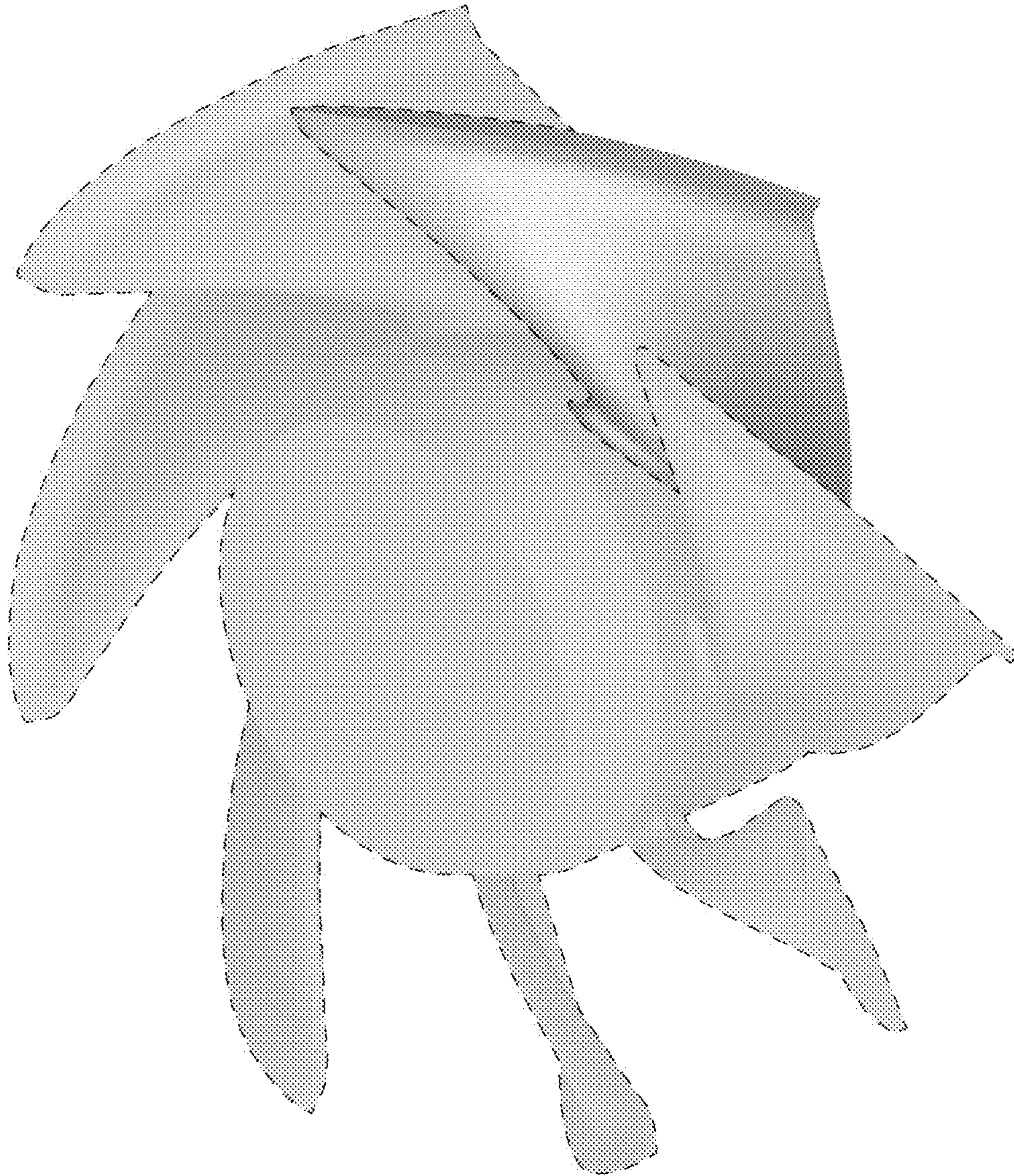


Fig. 1

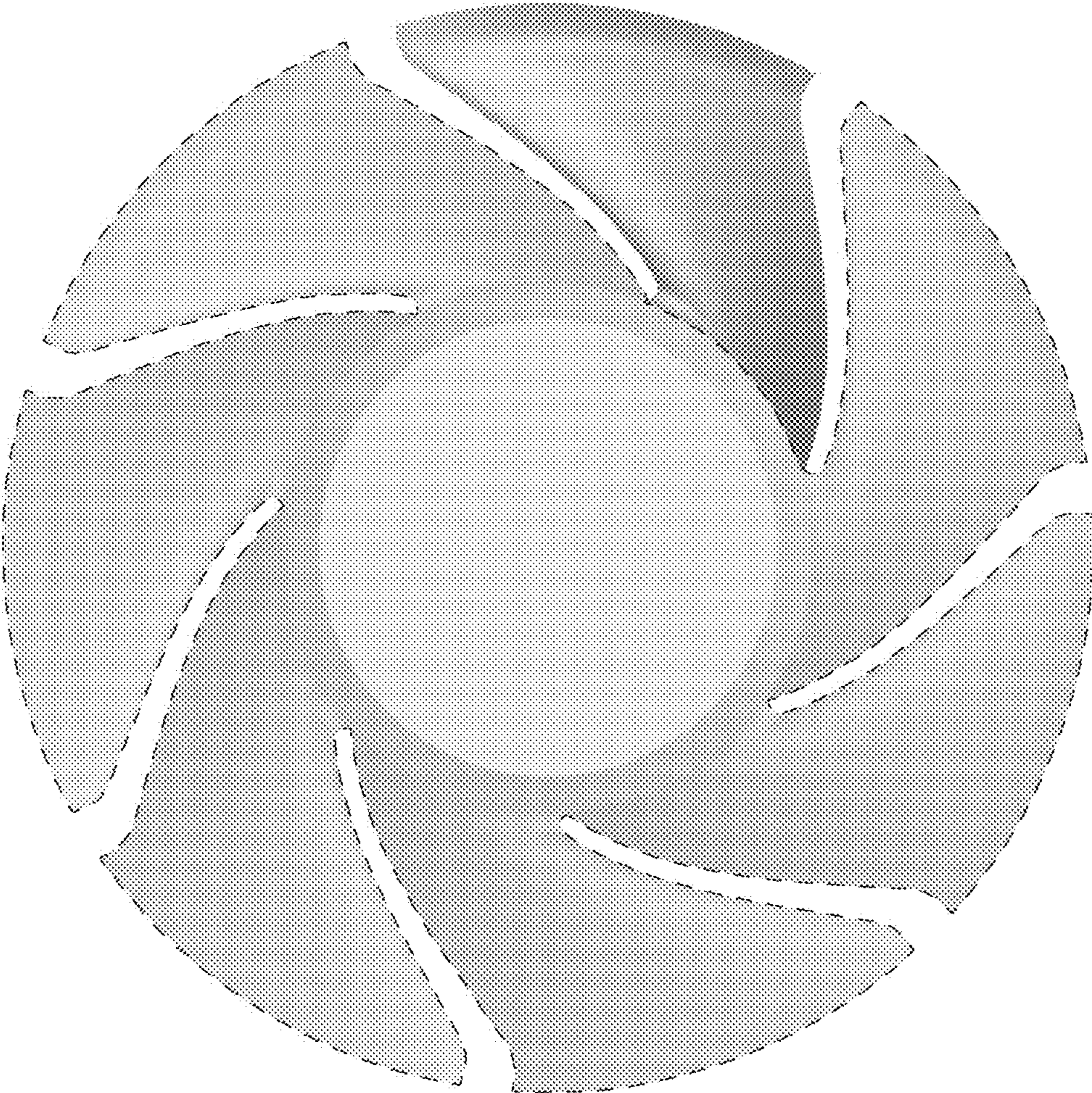


Fig. 2

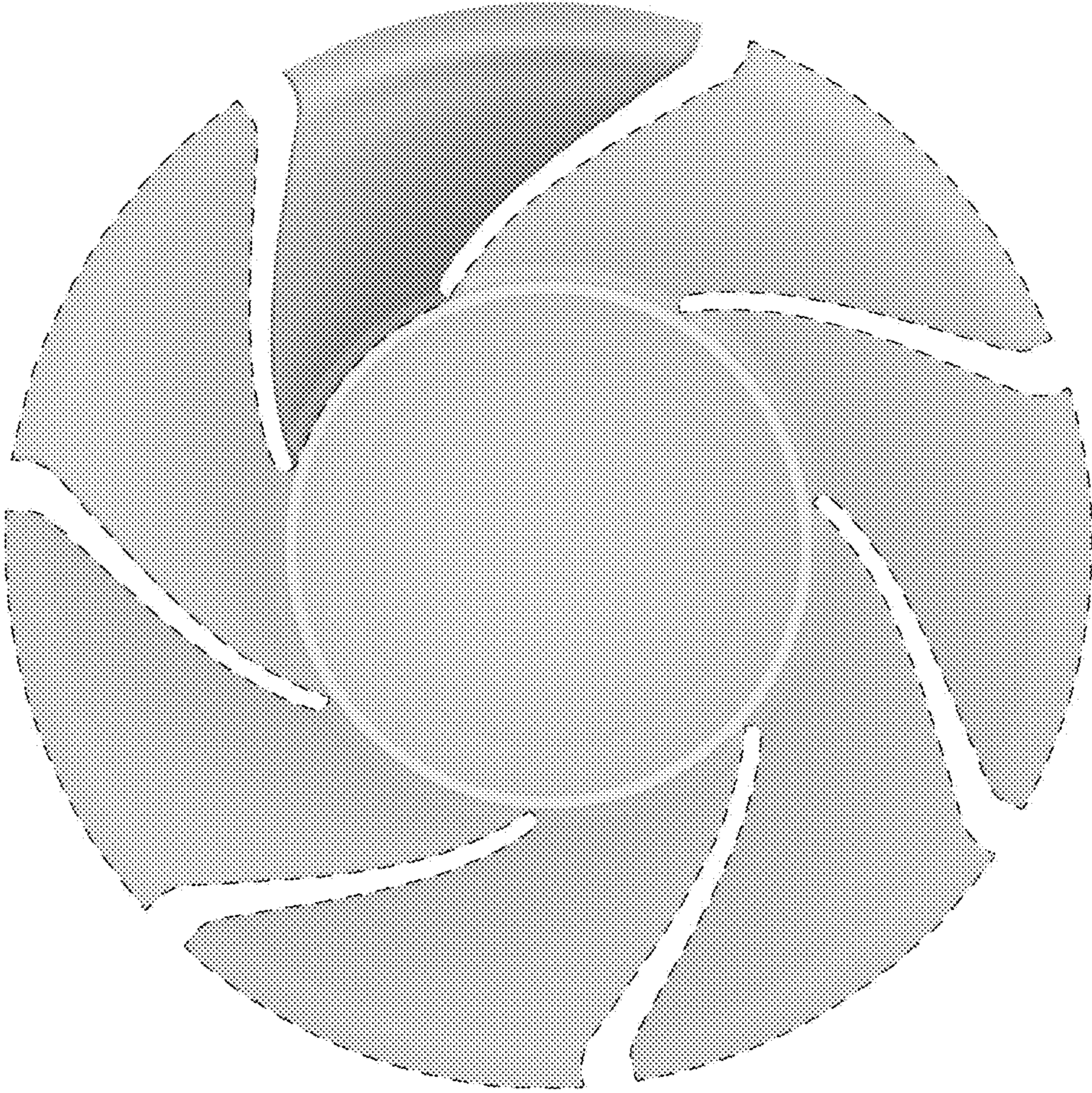


Fig. 3

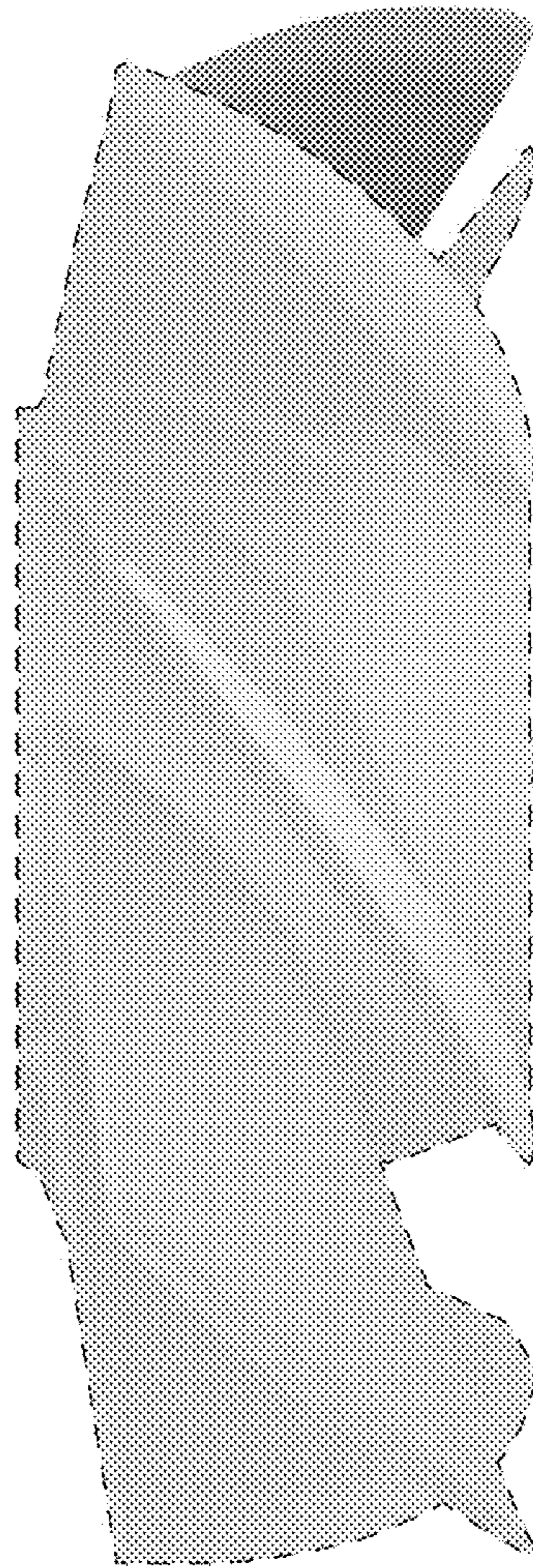


Fig. 4

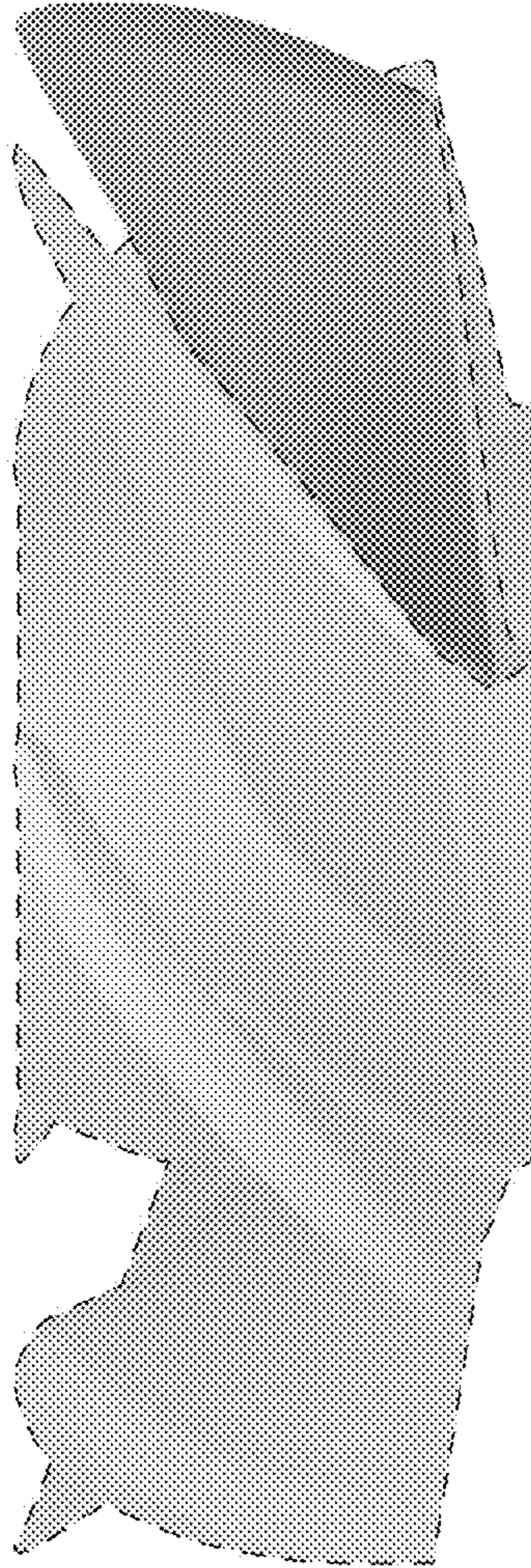


Fig. 5

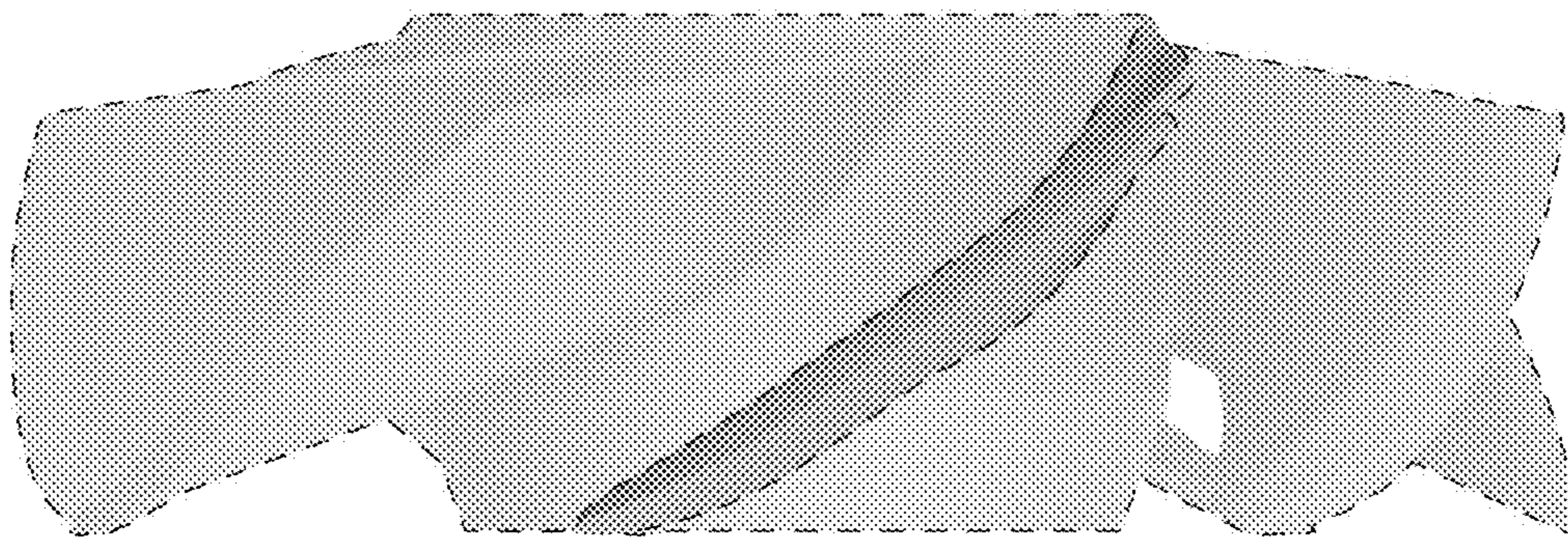


Fig. 6

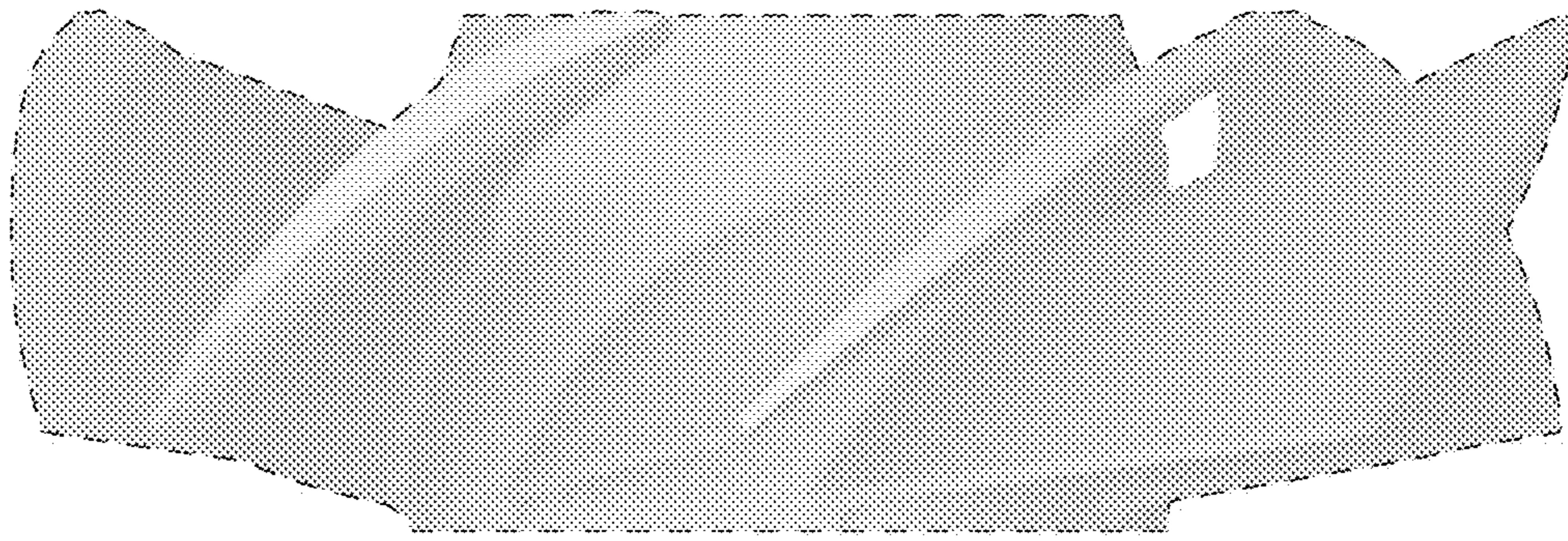


Fig. 7

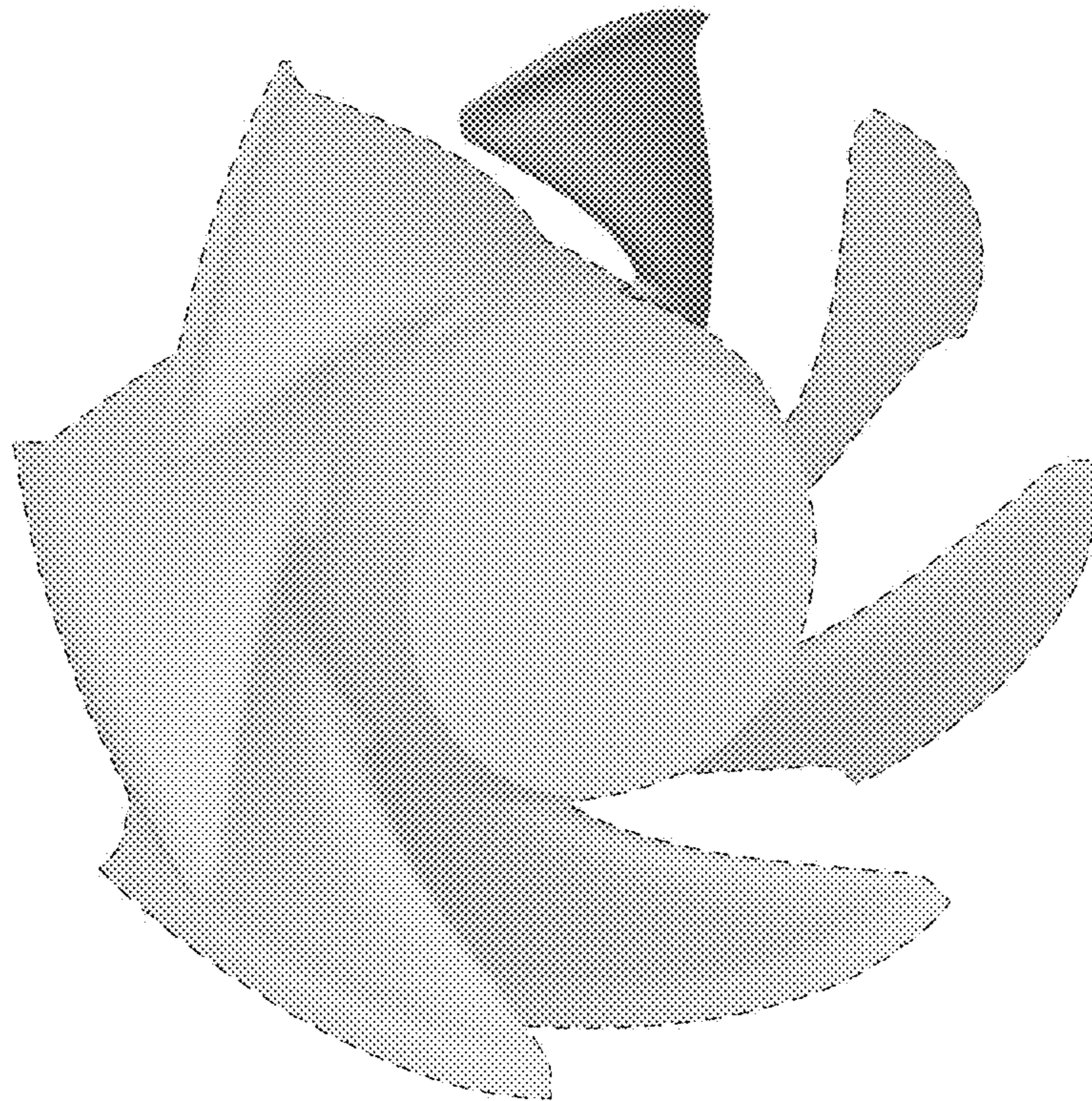


Fig. 8