



US00D772312S

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

(10) **Patent No.:** **US D772,312 S**
(45) **Date of Patent:** **** Nov. 22, 2016**

- (54) **BREAKER CORE**
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- (**) Term: **15 Years**
- (21) Appl. No.: **29/536,464**
- (22) Filed: **Aug. 17, 2015**
- (51) **LOC (10) Cl.** **15-09**
- (52) **U.S. Cl.**
USPC **D15/135**
- (58) **Field of Classification Search**
USPC D8/70, 71; D15/135, 136, 137, 138;
164/359, 360; 249/197
See application file for complete search history.

4,243,199 A *	1/1981	Hill	.....	B29C 39/34
				249/142
4,423,762 A *	1/1984	Trinkl	.....	B22C 9/088
				164/137
4,715,424 A *	12/1987	Brown	.....	B22C 9/084
				164/140
5,291,938 A	3/1994	Metevelis		
5,299,625 A *	4/1994	Miki	.....	B22C 9/084
				164/359
D372,486 S *	8/1996	Morris	.....	D15/136
D377,362 S *	1/1997	Mihailovic	.....	D15/126
5,676,980 A *	10/1997	Gulka	.....	B29C 33/005
				425/40
5,725,041 A *	3/1998	Schultz	.....	B22D 15/04
				164/131
6,289,969 B1 *	9/2001	Outten	.....	B22D 35/04
				164/134
6,932,144 B2 *	8/2005	Shirley	.....	B22C 9/088
				164/122.1
D525,271 S *	7/2006	DiBella	.....	D15/137
D619,152 S *	7/2010	Evatt	.....	D15/138
D644,255 S *	8/2011	Lof	D15/139
D645,066 S *	9/2011	Sakae	D15/136

* cited by examiner

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(57) **CLAIM**

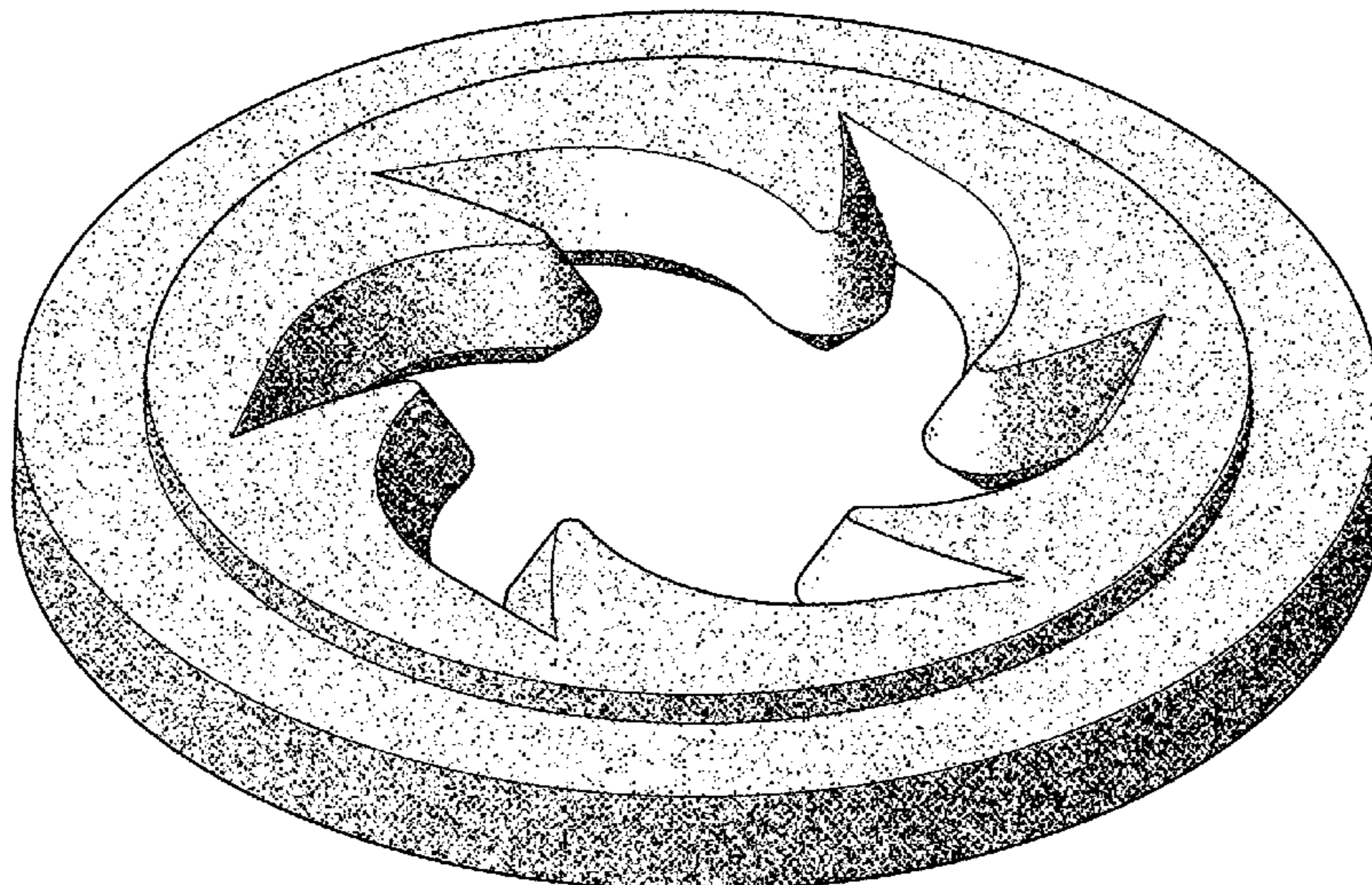
The ornamental design for a breaker core, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of the breaker core;
FIG. 2 is a bottom perspective view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof; and,
FIG. 5 is a side elevation view thereof.

1 Claim, 5 Drawing Sheets

- (56) **References Cited**
U.S. PATENT DOCUMENTS
- 900,970 A 10/1908 Washburn
- 1,893,688 A * 1/1933 Wells B23P 15/48
-
- 2,030,132 A * 2/1936 Apple H01R 43/06
-
- D187,440 S * 3/1960 Tupper D15/136
- 2,940,342 A * 6/1960 Lavallee B23D 77/00
-
- 4,141,406 A * 2/1979 Wukovich B22C 9/088
-



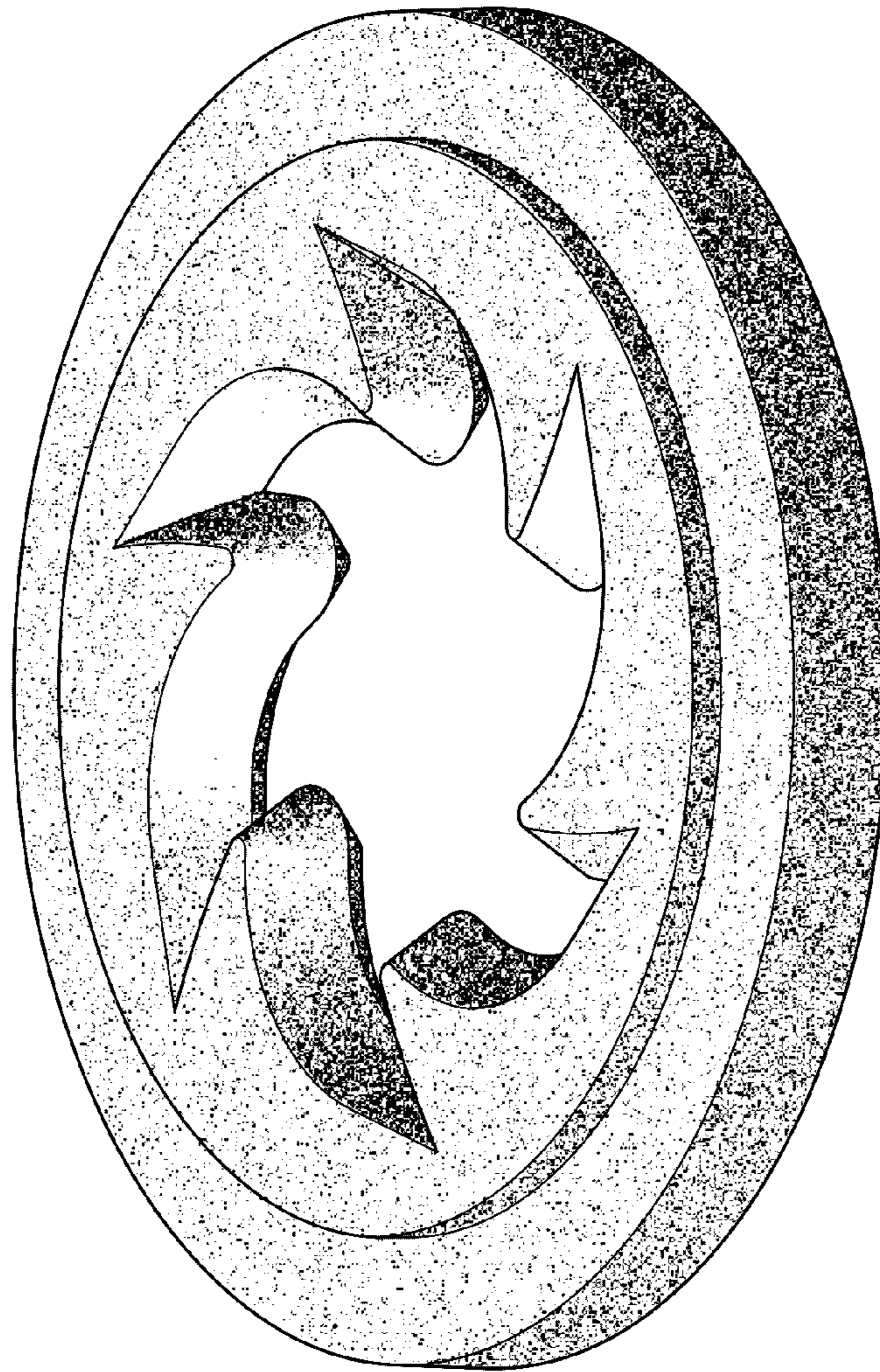


Fig. 1

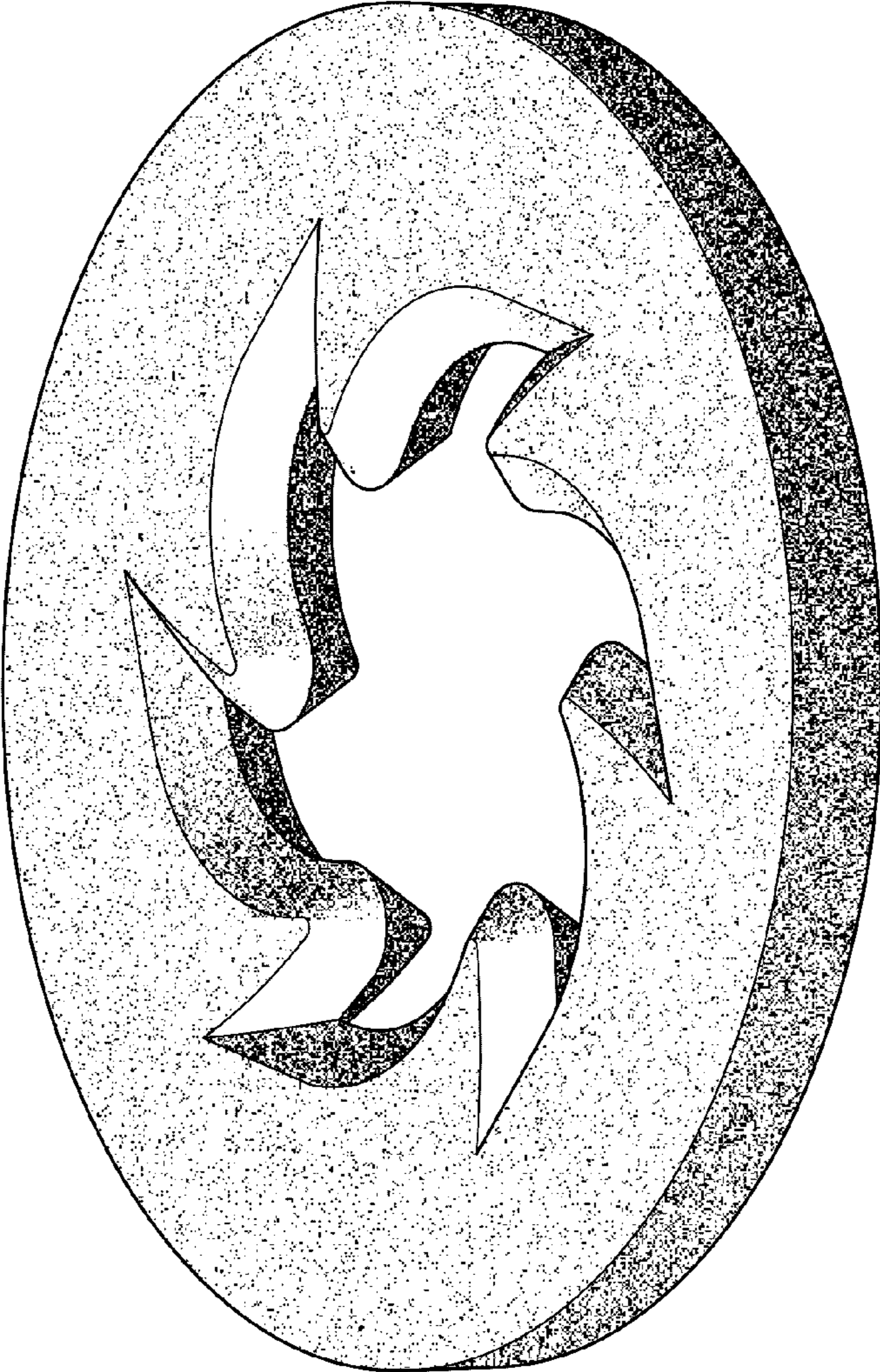


Fig. 2

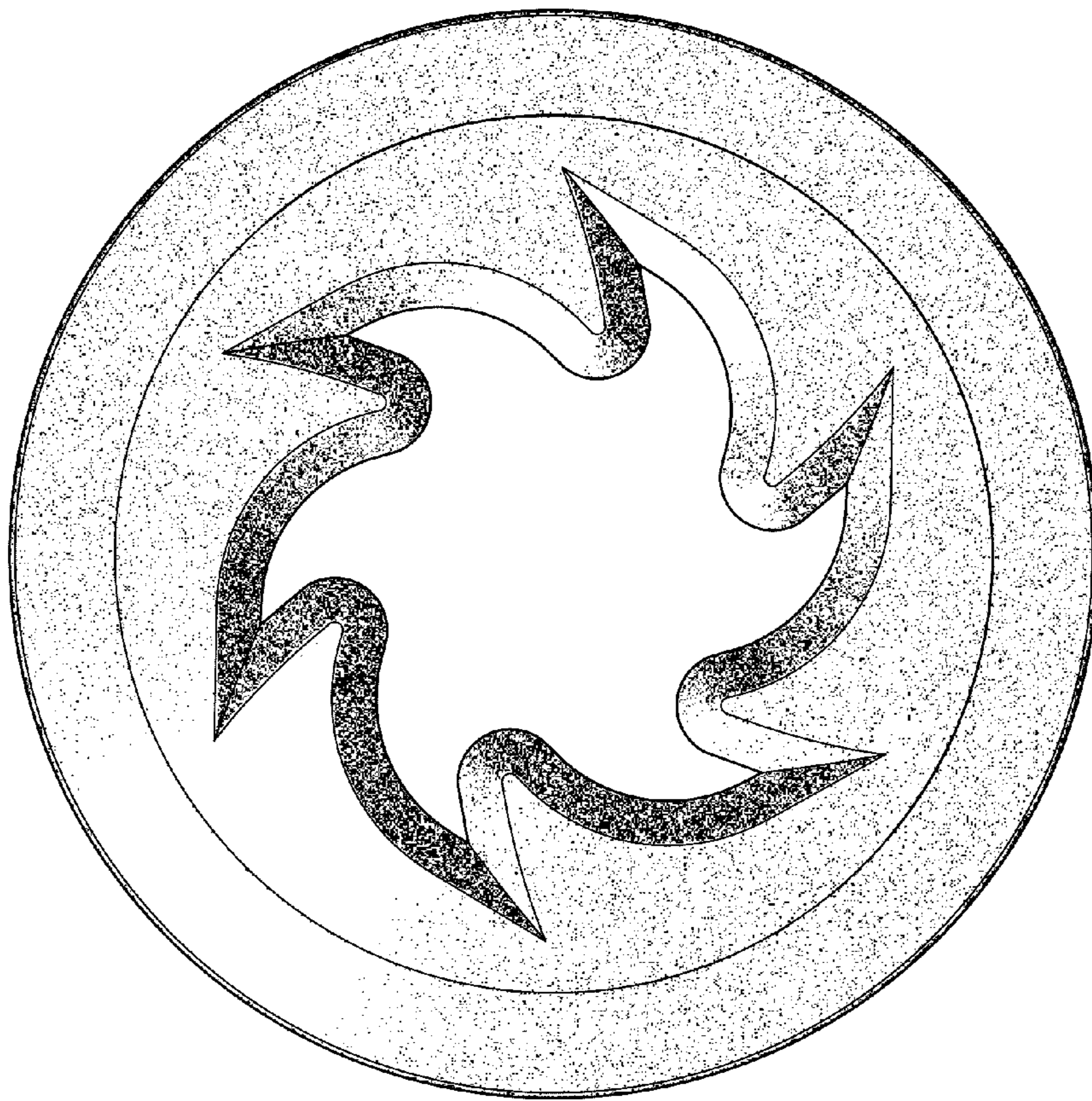


Fig. 3

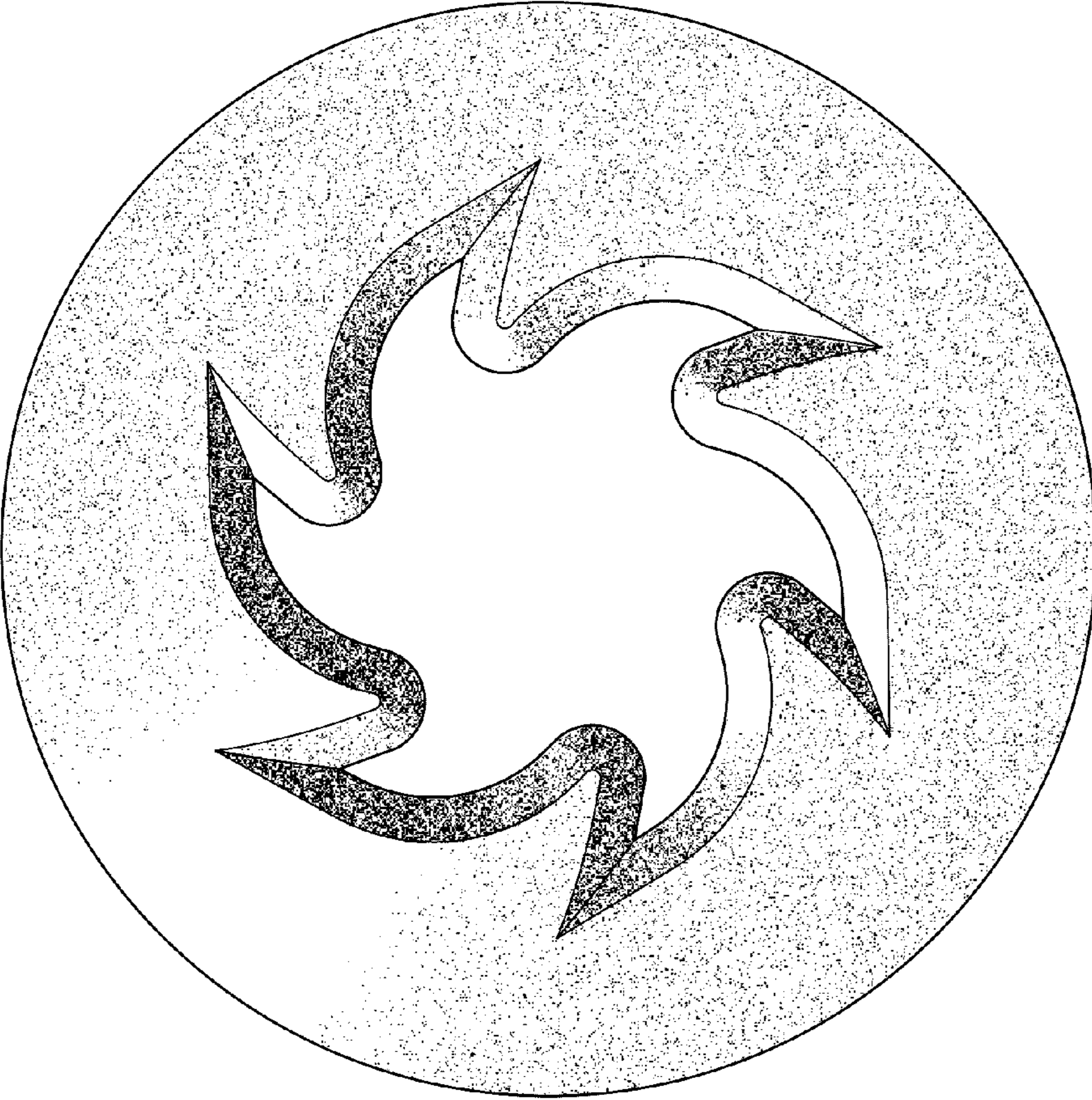


Fig. 4

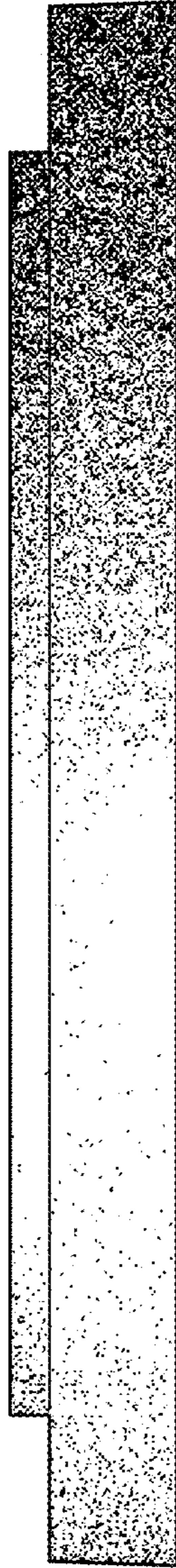


Fig. 5