

CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

S-E-C-R-E-T
 NOFORN/CONTINUED CONTROL

COUNTRY	Poland	REPORT NO.	[Redacted]	50X1
SUBJECT	Polish Interest in Grinding Machines for the Manufacture of Ball Bearings	DATE DISTR.	3 October 1955	
DATE OF INFO.	[Redacted]	NO. OF PAGES	2	
PLACE ACQUIRED	[Redacted] 50X1	REQUIREMENT NO.	RD	50X1
DATE ACQUIRED	[Redacted]	REFERENCES		ILLEGIB

Enclosure attached please note

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
 THE APPRAISAL OF CONTENT IS TENTATIVE.
 (FOR KEY SEE REVERSE)

1. Available from the CIA Library are diagrams of grinding and lapping machines for the production of inner and outer races of ball bearings, rollers and tapered rollers. An interest in the purchase of these machines was expressed by Polimex of Warsaw.
2. The machines sought for were not only to have ground regular rings, but in particular they were to have ground races for ball bearings. It was not considered adequate if the rings, as shown in diagrams 1 to 17, could have been ground parallel, on a slant, or round; it was especially necessary that the rings grind a cylindrical shape spherically to a minute degree.
3. The area of the crown of the ball bearing gives the ball bearings a small amount of play or clearance, which, almost immeasurably small, must be present. The attaining of this exact clearance has developed in individual factories that construct their own grinding machines or rebuild these machines in accordance with their experience. The grinding machine, therefore, is a veritable secret in every ball bearing factory.
4. The Poles can probably get regular grinding machines. They cannot, however, obtain any grinding machines for ball bearing races since a machine that grinds ball bearing races is of a different nature having different specifications. These specifications are not included in readily available grinding machines marketed by the factories.
5. The owner of the Jung¹ firms who was contacted in regard to the sale of these machines stated that the country interested in the purchase of these machines was interested in the manufacture of ball bearings for tanks. The diagrams show that the ball bearings in question, as considered by the Germans, are for tank production.

1. [Redacted] Comment: Not further identified.

50X1

Distribution of Attachments (diagrams, 2 pages): OCD
 ORR: Loan
 CIA Library: Retention

S-E-C-R-E-T
 NOFORN/CONTINUED CONTROL

50X1

STATE	X	ARMY	X	NAVY	X	AIR	X	FBI	AEC	ORR	Ev	X
-------	---	------	---	------	---	-----	---	-----	-----	-----	----	---

(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

- 2 -

S-E-C-R-E-T
NOFORN/CONTINUED CONTROL



50X1

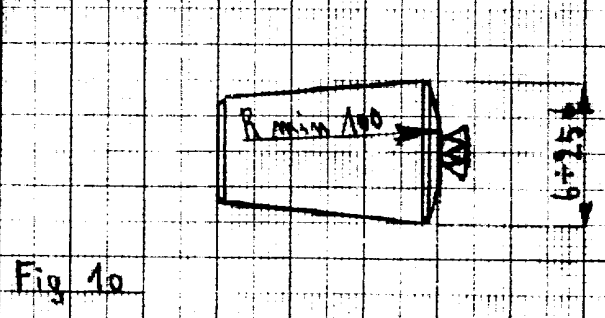
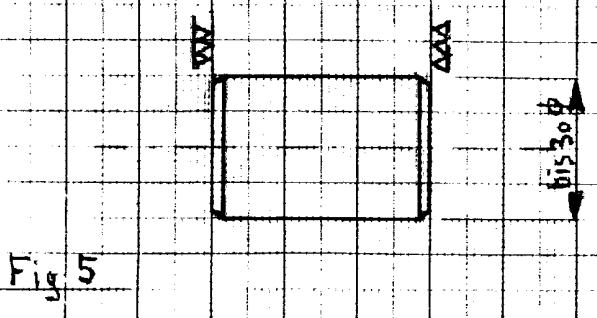
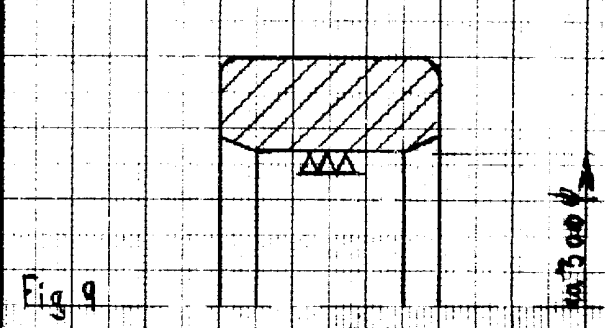
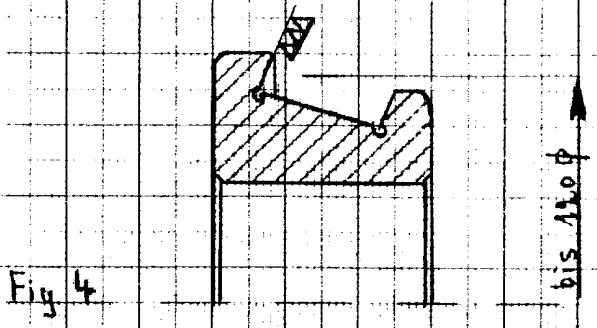
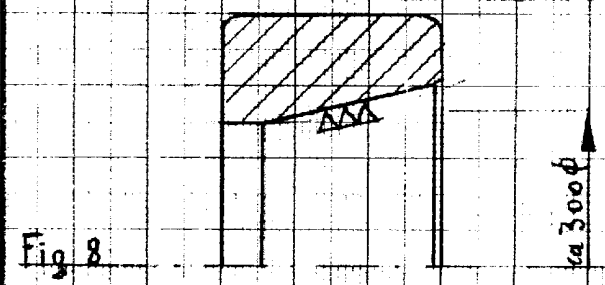
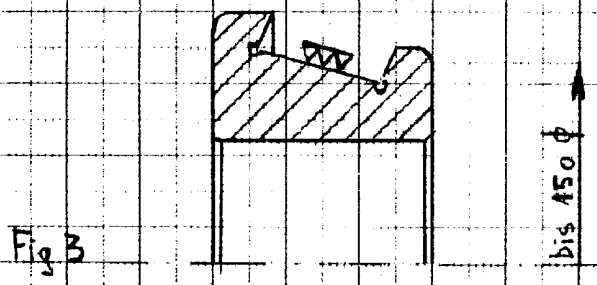
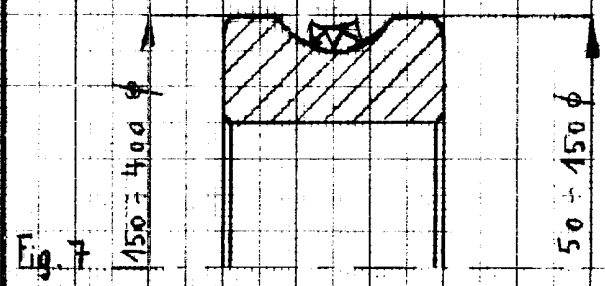
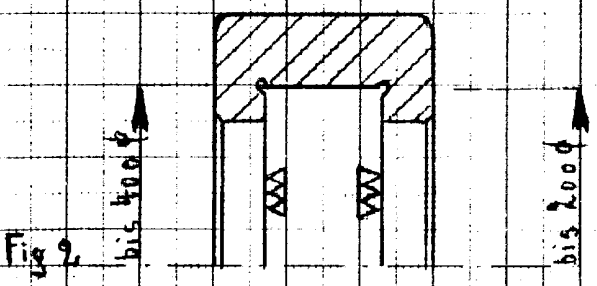
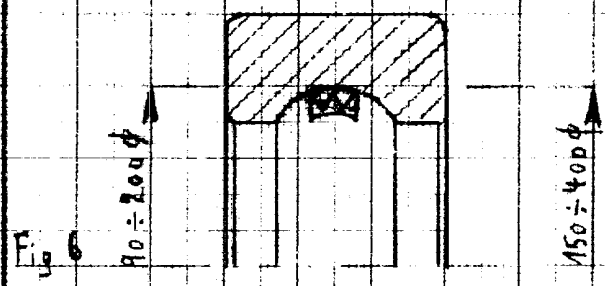
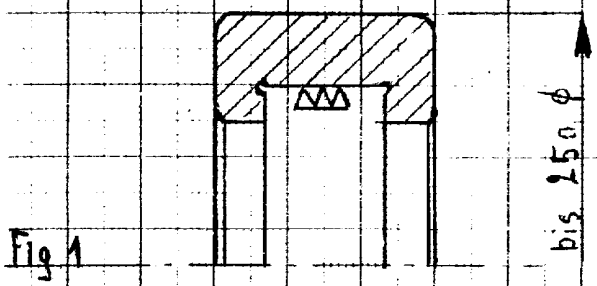
LIBRARY SUBJECT AND AREA CODES

B-02-0404	10/55	(17)
6-12/741.415	55M	(+1)

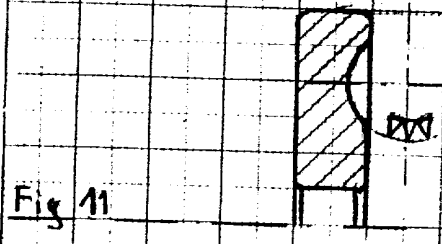
S-E-C-R-E-T
NOFORN/CONTINUED CONTROL

50X1

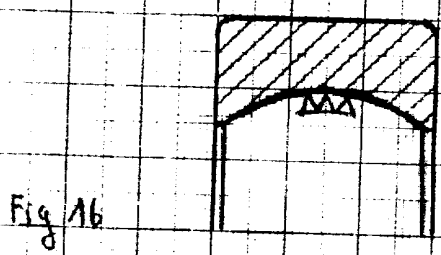
1590



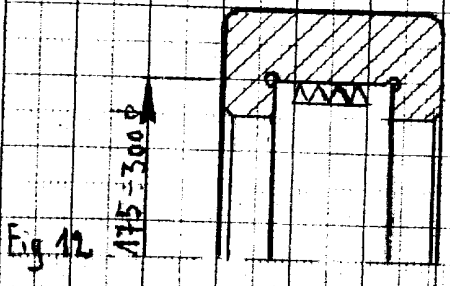
Page Denied



19.0 = 19.0 φ

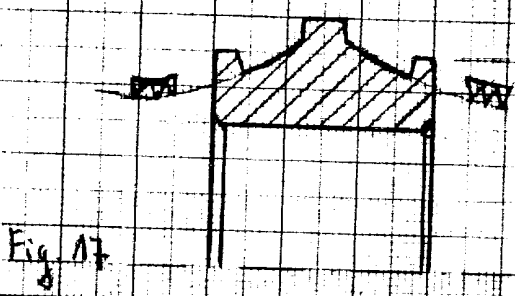


2.50 = 4.00 φ

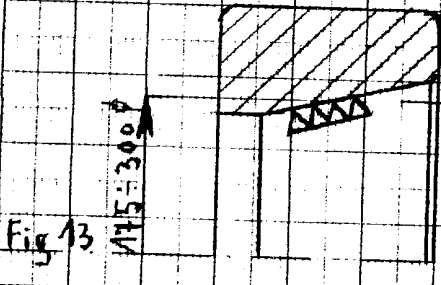


17.5 = 3.00 φ

5.0 = 17.5 φ

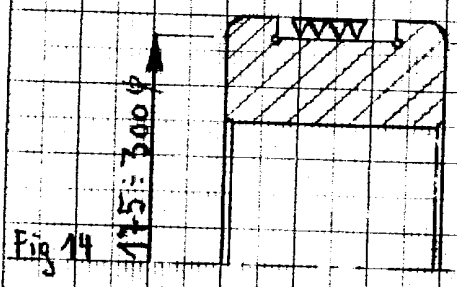


1.50 = 3.50 φ



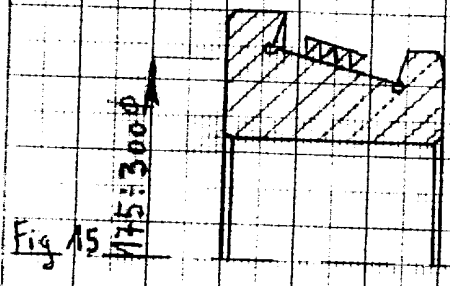
17.5 = 3.00 φ

5.0 = 17.5 φ



17.5 = 3.00 φ

5.0 = 17.5 φ



17.5 = 3.00 φ

5.0 = 17.5 φ

Page Denied