



# Smithsonian

*National Air and Space Museum*

## Captured German Documents (World War II): Fort Eustis Library (FE) Microfilm

2014

National Air and Space Museum Archives  
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Chantilly, VA 20151  
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<https://airandspace.si.edu/archives>

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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Captured German Documents (World War II): Fort Eustis Library (FE) Microfilm
<b>Date:</b>	(bulk 1938-1945)
<b>Identifier:</b>	NASM.XXXX.0468
<b>Creator:</b>	United States. Army. Ordnance Department. Ordnance Research and Development Translation Center
<b>Extent:</b>	3.4 Cubic feet (17 boxes)
<b>Language:</b>	Collection is in English and German.
<b>Summary:</b>	This collection consists of microfilm copies of documents relating to research and development work conducted by the Ordnance Office of the German Army at the research station at Peenemünde, as well as document listings and indexes of those documents prepared by United States Army's Ordnance Research and Development Translation Center at Fort Eustis, VA.

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## Administrative Information

### Acquisition Information

Unknown, from Fort Eustis?, Gift, Unknown, NASM.XXXX.0468

### Processing Information

Arranged and described by Paul Silbermann, 2001 & 2013. Encoded by Paul Silbermann, 2020.

### Preferred Citation

Captured German Documents (World War II): Fort Eustis Library (FE) Microfilm, Acc. NASM.XXXX.0468, National Air and Space Museum, Smithsonian Institution.

### Restrictions

No restrictions on access.

### Conditions Governing Use

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## Biographical / Historical

At the end of World War II the Allies captured a large volume of documents relating to research and development work conducted by the Ordnance Office of the German Army, including work done at the research station at Peenemünde. The material was made available to ordnance personnel and contractors to

aid US research efforts and a portion was housed in a library at Fort Eustis, VA. Most of the material in the Fort Eustis library was identified by the original Peenemünde Archiv ("ARCH") number; documents not having such numbers were arbitrarily assigned Fort Eustis Library ("FE") numbers. For wider accessibility, portions of the FE material were microfilmed by the Army, while part of the ARCH material was separately microfilmed by the Navy as the Peenemünde Guided Missile (PGM) microfilm. In addition, the Ordnance Research and Development Translation Center at Fort Eustis utilized a number of qualified German Prisoners of War to review and abstract all of the library material. From these abstracts the Ordnance Department prepared a multi-volume *Accession List of German Documents Pertaining to Guided Missiles*, which included over 3200 documents housed in the Fort Eustis library, including both FE and ARCH documents.

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## Scope and Contents

This collection consists of an original and use copy of the Accession List (5 volumes each), as well as Author and Subject Indexes to Volumes I through III of the Accession List, and 71 rolls of 35mm microfilm of FE documents from the Fort Eustis library.

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## Arrangement

Series 1 consists of printed copies of the listings and indexes compiled by the Ordnance Research and Development Translation Center at Fort Eustis, with use-copy photocopies filed as a group before the original documents, which were printed on fragile wood-pulp paper. Entries in the Accession List are organized by a unique subject classification numbering system which is explained in the Subject Index to Volumes I, II, and III. Each entry in the Accession List provides both the original German and a translated English title for the document, publication information, an abstract, and lists the document (ARCH or FE) number.

Series 2 consists of 71 rolls of microfilmed documents. Unfortunately there is no organizing principle to the FE document microfilm, or any such organization has been lost, although most documents are separated by blank frames on the microfilm.

Not all of the FE-numbered material in the Accession List was microfilmed. The original documents were returned to Germany in the 1950s and divided between the Deutsches Museum in Munich and the Bundesarchiv in Koblenz. For more specific information on the original FE documents, as well as on other archival materials relating to the work at Peenemünde, see Michael J. Neufeld, *The Rocket and the Reich: Peenemünde and the Coming of the Ballistic Missile Era* (New York: Free Press, 1995). For ARCH-numbered material held by the National Air and Space Museum, see *Captured German/Japanese Air Technical Documents: Peenemünde Guided Missile (PGM) Microfilm* (one series of Accession NASM.XXXX.0431).

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

### Subjects:

- Ballistic missiles
- Rockets (Ordnance)
- V-1 rocket
- V-2 rocket
- World War, 1939-1945

### Types of Materials:

- Microfilms

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## Container Listing

### Series 1: Indexes and Document Listings

#### Use Copies

Box 1, Folder 1	<p>Accession List of German Documents Pertaining to Guided Missiles, Index to Vols. I, II, and III, 1946</p> <p>Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i>, (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). Index to Vols. I, II, III. [use copy]</p>
Box 1, Folder 2	<p>Accession List of German Documents Pertaining to Guided Missiles, Author Index to Vols. I, II, and III, 1946</p> <p>Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i>. (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). Author Index to Vols. I, II, III. [use copy]</p>
Box 1, Folder 3	<p>Accession List of German Documents Pertaining to Guided Missiles, Vol. I [folder 1/2], 1946</p> <p>Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i>, Vol. I [pp. 1-572; GD600.1.1 to GD624.0.3], (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]</p>
Box 1, Folder 4	<p>Accession List of German Documents Pertaining to Guided Missiles, Vol. I [folder 2/2], 1946</p> <p>Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i>, Vol. I [pp. 1-572; GD600.1.1 to GD624.0.3], (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]</p>
Box 1, Folder 5	<p>Accession List of German Documents Pertaining to Guided Missiles, Vol. II [folder 1/2], 1946</p> <p>Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i>, Vol. II (pp.573-1147; GD624.0.4 to GD633.291.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]</p>
Box 1, Folder 6	<p>Accession List of German Documents Pertaining to Guided Missiles, Vol. II [folder 2/2], 1946</p> <p>Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i>, Vol. II (pp.573-1147; GD624.0.4 to GD633.291.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance</p>

Research and Development Translation Center, 1946). [use copy]

Box 1, Folder 7	Accession List of German Documents Pertaining to Guided Missiles, Vol. III [folder 1/2], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. III</i> (pp.1148-1762; GD633.291.2 to GD699.3.3) (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]
Box 1, Folder 8	Accession List of German Documents Pertaining to Guided Missiles, Vol. III [folder 2/2], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. III</i> (pp.1148-1762; GD633.291.2 to GD699.3.3) (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]
Box 2, Folder 1	Accession List of German Documents Pertaining to Guided Missiles, Vol. IV [folder 1/2], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. IV</i> (pp.1763-2224; GD600.2.10 to GD633.5.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]
Box 2, Folder 2	Accession List of German Documents Pertaining to Guided Missiles, Vol. IV [folder 2/2], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. IV</i> (pp.1763-2224; GD600.2.10 to GD633.5.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]
Box 2, Folder 3	Accession List of German Documents Pertaining to Guided Missiles, Vol. V [folder 1/2], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. V</i> (pp.2225-2683; GD634.10.11 to GD698.0.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]
Box 2, Folder 4	Accession List of German Documents Pertaining to Guided Missiles, Vol. V [folder 2/2], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. V</i> (pp.2225-2683; GD634.10.11 to GD698.0.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [use copy]

## Original Documents

Box 3, Folder 1	Accession List of German Documents Pertaining to Guided Missiles, Index to Vols. I, II, and III, 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Index to Vols. I, II, and III, (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [copy 1]
Box 3, Folder 2	Accession List of German Documents Pertaining to Guided Missiles, Index to Vols. I, II, and III, 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Index to Vols. I, II, and III, (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946). [copy 2]
Box 3, Folder 3	Accession List of German Documents Pertaining to Guided Missiles, Vol. I [folder 1/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Vol. I (pp.1-572; GD600.1.1 to GD624.0.3), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 3, Folder 4	Accession List of German Documents Pertaining to Guided Missiles, Vol. I [folder 2/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Vol. I (pp.1-572; GD600.1.1 to GD624.0.3), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 3, Folder 5	Accession List of German Documents Pertaining to Guided Missiles, Vol. I [folder 3/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Vol. I (pp.1-572; GD600.1.1 to GD624.0.3), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 4, Folder 1	Accession List of German Documents Pertaining to Guided Missiles, Vol. II [folder 1/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Vol. II (pp.573-1147; GD624.0.4 to GD633.291.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 4, Folder 2	Accession List of German Documents Pertaining to Guided Missiles, Vol. II [folder 2/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles</i> , Vol. II (pp.573-1147; GD624.0.4 to GD633.291.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).

Box 4, Folder 3	Accession List of German Documents Pertaining to Guided Missiles, Vol. II [folder 3/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. II</i> (pp.573-1147; GD624.0.4 to GD633.291.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
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Box 4, Folder 5	Accession List of German Documents Pertaining to Guided Missiles, Vol. III [folder 2/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. III</i> (pp.1148-1762; GD633.291.2 to GD699.3.3), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 5, Folder 1	Accession List of German Documents Pertaining to Guided Missiles, Vol. III [folder 3/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. III</i> (pp.1148-1762; GD633.291.2 to GD699.3.3), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
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Box 5, Folder 3	Accession List of German Documents Pertaining to Guided Missiles, Vol. IV [folder 2/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. IV</i> (pp.1763-2224; GD600.2.10 to GD633.5.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 5, Folder 4	Accession List of German Documents Pertaining to Guided Missiles, Vol. IV [folder 3/3], 1946 Notes: <i>Accession List of German Documents Pertaining to Guided Missiles, Vol. IV</i> (pp.1763-2224; GD600.2.10 to GD633.5.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).
Box 5, Folder 5	Accession List of German Documents Pertaining to Guided Missiles, Vol. V [folder 1/3], 1946



Notes: *Accession List of German Documents Pertaining to Guided Missiles, Vol. V* (pp.2225-2683; GD634.10.11 to GD698.0.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).

Box 6, Folder 1

Accession List of German Documents Pertaining to Guided Missiles, Vol. V [folder 2/3], 1946

Notes: *Accession List of German Documents Pertaining to Guided Missiles, Vol. V* (pp.2225-2683; GD634.10.11 to GD698.0.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).

Box 6, Folder 2

Accession List of German Documents Pertaining to Guided Missiles, Vol. V [folder 3/3], 1946

Notes: *Accession List of German Documents Pertaining to Guided Missiles, Vol. V* (pp.2225-2683; GD634.10.11 to GD698.0.1), (Ft. Eustis (VA): US Army, Ordnance Department, Ordnance Research and Development Translation Center, 1946).

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## Series 2: Microfilm Rolls

Roll 1  
1 Microfilm reel

Roll 1, Item FE 702	Pflichtenheft für die Abnahme von Mauser - Pistolen - Patronen Kal. 7,63mm. [Product requirement specifications for the acceptance of Mauser pistols, cartridges cal. 7.63mm.]
Roll 1, Item FE 372	Measuring of flight periods by means of air core coils and special purpose moving coil oscillographs. Special purpose moving coil oscillographs with recording camera. Recoil gage with special purpose moving coil oscillograph.
Roll 1, Item FE 704	Micro-hardness tests on shells, cartridges, and percussion caps.
Roll 1, Item FE 703	FWP Report #18 (Method of testing shell cases hydraulically under dynamic pressure).
Roll 1, Item FE 705	State of development of high frequency current hardening of shell cases.
Roll 1, Item FE 706	Tests to ascertain the possibility of increasing the hardness of shell cases by aging.
Roll 1, Item FE 708	Resistance measurements on projectile models with super ogival pointed bullet (first communication).
Roll 1, Item FE 709	Measurements on projectile models with super ogival noses.
Roll 1, Item FE 710	Development of an anti tank mine for use in deep snow.
Roll 1, Item FE 772	Report on launching tests made from a submerged submarine with the type 30 cm Wk Spr.42 rockets.
Roll 1, Item FE 826	Development and testing of a mobile spark photography installation. [note: file cover only]
Roll 1, Item FE 791	AA devices for taking photographs and for their evaluation. Part I: Cine-theodolite and evaluation device for cine-theodolite. Description, informations on operating and repairing the device.
Roll 1, Item FE 320	Nozzle for fluid flow engines.
Roll 1, Item FE 353	Draft for the directions concerning the training and the employment of a motorized powder rocket battery.
Roll 1, Item FE 353	Subcaliber projectile with driving and guiding devices.

Roll 1, Item [no number]	Experiments on the influence of powder temperatures.
Roll 1, Item FE 169	Driving disk for transmission of thrust to subcaliber projectiles.
Roll 1, Item FE 162	Designation: "Poison Gas Spraying Device."
Roll 1, Item FE 152	Artillery ammunition.
Roll 1, Item FE 150	Device for transmitting thrust to subcaliber projectiles.
Roll 1, Item FE 17	Disk for thrust transmission to projectile.
Roll 1, Item FE 54	Mounting for folded fins of projectile.
Roll 1, Item FE 602	Medical problems pertaining to a parachute jump from great altitudes and at high velocities. [incomplete]
Roll 2 1 Microfilm reel	
Roll 2, Item FE 638/3	Chemical rocket launcher (Germ. abbr. s.W.G. 40)
Roll 2, Item FE 638/2 [1 of 2]	Technical and general correspondence concerning the development of a chemical short range rocket (320mm), Germ. abbr. 32cm Wurfkoerper M 50. [continued on Roll 3]
Roll 3 1 Microfilm reel	
Roll 3, Item FE 638/2 [2 of 2]	Technical and general correspondence concerning the development of a chemical short range rocket (320mm), Germ. abbr. 32cm Wurfkoerper M 50. [continued from Roll 2]
Roll 3, Item FE 834	Diploma Arbeit - Otto Müller [Diploma Work - Otto Müller]
Roll 3, Item FE 66	Patentanmeldung "Unterkalibergeschoss." R 111 030 (26) [Patent application. "Sub caliber projectile"]
Roll 3, Item FE 714	Computation of errors in points of bursts for 8.8cm Flak 41.
Roll 3, Item FE 627	Method of production and properties of Cupren.

Roll 3, Item [no number]	[Contents listing of folders F11-F15 (FE 1150 -- FE 1154)]
Roll 3, Item FE 596	Zur Theorie der Flußerosion [On the theory of fluid erosion]
Roll 3, Item FE 624	Research and testing by airplane flights of a simple method of correcting the barometric determination of altitude.
Roll 3, Item FE 60	Packing device for a longitudinal slit launching tube for acceleration of bodies, especially (catapult) launching of airplanes (Patent # F 95627/62c).
Roll 4 1 Microfilm reel	
Roll 4, Item FE 638/1 [Part II, sec. 1 of 2]	Development of a chemical short range rocket (320mm) (Germ. abbr. 32cm Wurfkoerper M 50) using special charges.
Roll 4, Item FE 638/1 [Part II, sec. 2 of 2]	Development of a chemical short range rocket (320mm) (Germ. abbr. 32cm Wurfkoerper M 50) using special charges.
Roll 4, Item FE 28	Unterkalibergeschoß [Sub-caliber projectile]
Roll 4, Item FE 59	Protecting cap for photoelectric homing devices or fuzes on missiles.
Roll 4, Item FE 51	Diaphragm seal in compressed gas or hydraulic conduits.
Roll 4, Item FE 52	Reply to a letter of the patent office R 115425 XII/47g from 1 Nov 1943 re: Patent Application for a Pressure Reduction Valve.
Roll 4, Item FE 55	Rocket missile with electrically ignitable propellant (application for patent).
Roll 4, Item FE 61	Butt end joints for longitudinally split lengths of tube. Copy of the original registration: Device for packing a longitudinally split launching tube to accelerate starting airplanes.
Roll 4, Item FE 62	Rocket propulsion with several rockets working at the same time.
Roll 4, Item FE 3	Explanation of the wiring system of the mech. GM-Battery III.
Roll 4, Item FE 8	Missile wiring system.
Roll 5	

1 Microfilm reel	
Roll 5, Item FE 119	Correspondence concerning development of steering control and gyro devices. [blank frame left between pages 168 and 169 of file]
Roll 5, Item FE 4	Explanation of the wiring system of the mech. GM-Battery II, in connection with missiles of the final solution type.
Roll 5, Item FE 5	Explanation of the wiring system of the 2 mech. Battery II.
Roll 5, Item FE 38	Primary element, especially for the operation of jet-propulsion units.
Roll 5, Item FE 37	Bearing of the combustion chamber.
Roll 5, Item FE 43	Catalytic decomposition of hydrogen peroxide.
Roll 5, Item FE 34	Container for finely divided, solid catalysts.
Roll 5, Item FE 35	Design of a cooling jacket for the combustion chamber of a rocket.
Roll 5, Item FE 44	Draft of a patent application. Propellant combination of solid carbon compounds and liquid oxygen carriers and vice versa.
Roll 5, Item FE 670	Investigation on "Ceresine" and protective lacquer with corresponding diluting agent.
Roll 6 1 Microfilm reel	
Roll 6, Item FE 638/1 [Part I]	Development of a chemical short range rocket (320mm) (Germ. abbr. 32cm Wurfkoerper M 50) using special charges.
Roll 6, Item FE 74b	Correspondence between Peenemuende and the firm "Kreiselgeraete K. G.", Berlin.
Roll 6, Item FE 47	Ignition by electrical inductance.
Roll 6, Item FE 743	Preliminary manual on special vehicles, assemblies and essential parts for the long range launching installation FR.
Roll 6, Item FE 758	Reconnaissance of launching sites for the special purpose missile - Army (A 4).
Roll 6, Item FE 818	Illustrated list of assembly marks and structural parts of the missile A 4.
Roll 6, Item FE 575	Memorandum on the efforts made in the manufacture of A 4 missiles to cut down the use of metals subject to shortage.
Roll 6, Item FE 389	Combustion tests with new B-substances (alcohol).

Roll 6, Item FE 25	Automatic speed stabilization for airplanes.
Roll 6, Item FE 26	Steering device for automatic maintenance of the course or of the position in space of crafts, especially aircrafts [sic].
	Roll 7 1 Microfilm reel
Roll 7, Item FE 454	Short manual: Construction of launching sites and assembly areas "for special purposes" (A 4).
Roll 7, Item FE 31	Improvement of rockets in order to avoid explosions at the tail section.
Roll 7, Item FE 32	Catalysts for decomposition of hydrogen peroxide.
Roll 7, Item FE 30	Bursting diaphragm
Roll 7, Item FE 29	Improvement of rockets in order to avoid explosions at the tail section (addition to patent document FE #31).
Roll 7, Item FE 23b	Further development of the stabilized platform.
Roll 7, Item FE 23a	Preliminary description of the stabilized platform
Roll 7, Item FE 22	Reversible heat exchangers in oxygen production installations. Patent application R 115 777 Ia/17g.
Roll 7, Item FE 21	Reversible heat exchangers in oxygen production installations. Patent application R 114 793 IVb/17g.
Roll 7, Item FE 20	Method for firing at mobile targets, particularly aircraft.
Roll 7, Item FE 19	Method of approximate differentiation of measured quantities depending on time.
Roll 7, Item FE 14	Method for the production of alkali-free and non-corrosive vapor by decomposition of hydrogen peroxide in the liquid phase.
Roll 7, Item FE 11	Safety valve (patent application)
Roll 7, Item FE 9	Directions for the electrical test of missile A 4 with the Wierer wiring system.
Roll 7, Item FE 428	Organization chart of the HVP/EW
Roll 7, Item FE 768	Short manual: survey of launching sites and computation of firing data.
Roll 7, Item FE 106	Operating directions for the cut-off ground installations.

Roll 7, Item FE 94	Description and operating directions for the cut-off signal transmitter "Palermo."
Roll 7, Item FE 664/5/a	Report of the comparison of silicon-carbide and graphite vanes by means of X-ray and load tests (MU-communications #256, 258, 259 and 260).
Roll 7, Item FE 828	Die Schwingungen der bei einer Unterwassersprengung entstehenden Gasblase und die Druckverteilung in inner Ungebegung. [The oscillations of the gas bubble developing during an underwater demolition and the pressure distribution in internal ??.]
Roll 7, Item FE 134	A method for the release of signals transmitted by hf, e.g. in pilotless crafts. (Application for a patent.)
Roll 7, Item FE 825	Zustandgleichung für Wasser bei sehr hohen Drucken und die Geschwindigkeit einer Stoßwelle in Wasser. Notes: [State equation for water with very high pressures and the rate of a shock wave in water.]
Roll 8 1 Microfilm reel	
Roll 8, Item FE 366	Correspondence of the Waffenamt (Army Ordnance Department).
Roll 8, Item FE 416	Theoretical considerations regarding the rate of flow through injector nozzles. Report #142.
Roll 8, Item FE 496	Development of the rocket section of the army ordnance department in the years 1930 to 1943., 1930-1943
Roll 8, Item FE 147	Patent application for a pressure reduction valve.
Roll 8, Item FE 81	Static strength tests of reinforced and non-reinforced instrument compartments for the A 4.
Roll 8, Item FE 77	Experiments on the instrument compartment #8/44 and 9/44 by applying external overpressure (A 4 missile).
Roll 8, Item FE 75	Patent Application R 116 602, 7-7-1943. Rocket propellants of high specific gravity.
Roll 8, Item FE 82	Documentary note: state of investigation of the tail section of the A 4 missile.
Roll 8, Item FE 114	General report on questions of steering controls of the "Wasserfall" project.
Roll 8, Item FE 738/11	Report #4/44 concerning experimental missile W 5.

Roll 8, Item FE 50	Communication of the Reich Patent Office to Army High Command/Army Ordnance Office.
Roll 8, Item FE 767	Preliminary outline of a liquid rocket propulsion in which the acceleration of the flying missile is utilized to secure an increase of feeding resulting in a sufficiently strong combustion-unit pressure (thrust). Outline related to project "Wasserfall".
Roll 8, Item FE 350	Reports to the first employment of H.D.P. (a powder rocket battery).
Roll 8, Item FE 662a	Homing devices with an electrical basis.
Roll 8, Item FE 329	Proposal for standardized symbols of formulae and terms for projectiles with homing devices.
Roll 8, Item FE 65/16	Report on pressure distribution over the V 13e fin of the A 4.
Roll 8, Item FE 65/13	Six-component measurements on the fin-stabilized projectile A 4 V 12c.
Roll 8, Item FE 68d	Automatic steering controls of airplanes and arrow-stable missiles.
Roll 8, Item FE 65/22	Three-component measurements on the model glider A 4 with wing types V 12b and V 12c.
	Roll 9 1 Microfilm reel
Roll 9, Item FE 65/10	Report on drag and three-component measurements on model glider A 4 V 13e.
Roll 9, Item FE 65/2	Report on the three-component measurements with model glider A 4 V 12c.
Roll 9, Item FE 68c	Automatic steering for airplanes and projectiles with arrow stability
Roll 9, Item FE 68b2	Device for automatic steering control of crafts, especially aircrafts [sic].
Roll 9, Item FE 68b1	Automatic steering control of crafts, especially aircrafts [sic].
Roll 9, Item FE 74a	Installation for reproduction of vibratory processes
Roll 9, Item FE 68a	Patent #595 099: Gyro with two degrees of freedom.
Roll 9, Item FE 72	Patent Application: "Combustion chamber for rockets" and related correspondence.
Roll 9, Item FE 67	Cylinder primary element



Roll 9, Item FE 103	Instruction booklet, A 4.
Roll 9, Item FE 101	Toscana "E" first station. Appendix to the direction of operations for the measuring stand "Klein Florenz" (electrical measuring center).
Roll 9, Item FE 100	Toscana "E" first station. Direction of operation for doubler-station (measuring sites).
Roll 9, Item FE 102	Provisional description and direction for use of the electrical measuring station "Toscana E" first station. (Dependant station, useful only in connection with a cut-off station.)
Roll 9, Item FE 99	Toscana "E" first station. Direction of operation for measuring receivers (Pompeji).
Roll 9, Item FE 97	Provisional description and directions for use of the electrical measuring station "Toscana E" first station. (Dependant station useful only in connection with a cut-off station.)
Roll 9, Item FE 95	Cut-off evaluation cabinet. (Ground installation). [note: no space blank space before document]
Roll 9, Item FE 98	Provisional evaluation direction for electrical measuring.
Roll 9, Item FE 92	Operating directions and instructions for battery field tests, for integrators.
	Roll 10 1 Microfilm reel
Roll 10, Item FE 96	Test of the cut-off evaluation transmitter. Notes: <ul style="list-style-type: none"> <li>• A.) Testing of individual units</li> <li>• B.) Testing of the total assembly.</li> </ul>
Roll 10, Item FE 91	Spray tests with a carbon tetrachloride-light gasoline mixture as a substitute for liquid oxygen.
Roll 10, Item FE 90	"Effect of synchronization" and alleged uselessness of steering control computers.
Roll 10, Item FE 88	Report on tests made with various adjustments of the A 4 pressure reduction valve.
Roll 10, Item FE 87	Documentary note: efficiency of turbines
Roll 10, Item FE 89	Report on the development of an one-substance steam-generator on the basis of hydrogen peroxide steam generations.
Roll 10, Item FE 61	Butt end joints of longitudinally split lengths of tubes. Copy of the original registration: Device for packing a longitudinally split launching tube to accelerate starting airplanes.

Roll 10, Item FE 63c	Trajectories and graphs of $v$ , $v_x$ , $v_y$ , $x$ , $y$ , $\log W$ in dependence on the time of flight $t$ for the trajectories with $y_B = (18.5v_B - 185)$ m.
Roll 10, Item FE 84	Experiments of shortening the starting delay of the main stage (caused by the steam generating plant).
Roll 10, Item FE 85	Tests on tank suspension
Roll 10, Item FE 58	Report on a meeting concerning turbo assemblies.
Roll 10, Item 65/11	Hinge moments of the horizontal vanes A 4 V 12c.
Roll 10, Item FE 65/6	Part I of report 600/171. Three-component measurements on the model glider A 4 V 12c with deflected horizontal vanes.
Roll 10, Item FE 65/21	Three-component measurements on the model glider A 4 with the wings of V 12a.
Roll 10, Item FE 37	Bearing of the combustion chamber
Roll 10, Item FE 14	Method for the production of alkali-free and non-corrosive vapor by decomposition of hydrogen peroxide in the liquid phase.
Roll 10, Item FE 36	Automatic regulation of flow processes particularly during the launching of a rocket using liquid propellants.
Roll 10, Item FE 64	Code name nomenclature for missile "Wasserfall."
Roll 10, Item FE 71	Remote-controlled lock for tanks
Roll 10, Item FE 104	Description of equipment of cut-off ground installation.
Roll 10, Item FE 109	Numerical code for radio communication during experimental launching of guided missiles.
Roll 10, Item FE 105	Description of current circuit for the cut-off installation (except cut-off transmitter and aux. trans.)
Roll 10, Item FE 92	Operating directions and instructions for battery field tests, for integrators.
	Roll 11 1 Microfilm reel
Roll 11, Item FE 93	Description of the guide beam ground installation, and system for guide beam azimuth adjustment.
Roll 11, Item FE 104a	Description of equipment of cut-off ground installation.

Roll 11, Item FE 110	Experiments in connection with the emptying of a tank.
Roll 11, Item FE 116	Numerical code for radio communications during experimental launching of guided missiles.
Roll 11, Item FE 123	Numerical code for radio communications during experimental launching of guided missiles.
Roll 11, Item FE 115	Processes of flow when starting a "W" device.
Roll 11, Item FE 130	Method to increase the density and velocity of combustion of non-selfignitable propellants.
Roll 11, Item FE 118	Correspondence concerning the floating mine Sg 66 and Sg 70, respectively.
Roll 11, Item FE 128	Liquid propellants
Roll 11, Item FE 129	Patent application: Method of firing on fast moving targets, especially airplanes.
Roll 11, Item FE 124	Code table designated ASP
Roll 11, Item FE 112	Experimental report on ring-gap-nozzle
Roll 11, Item FE 111	October report
Roll 11, Item FE 122	A method for multiple integration or differentiation of measured quantities (Report II).
Roll 11, Item FE 121	A method of multiple integration for steering control purposes.
Roll 11, Item FE 159	Method of making propellant charges for powder rockets.
Roll 11, Item FE 197	Code table ASP and numerical code used during experimental launching of guided missiles.
Roll 11, Item FE 179	Spot welding machine, especially for making longitudinal and circumferential welds on hollow cylindrical work.
Roll 11, Item FE 149	Drum type switch for a switching device consisting of a number of electrical contact spring assemblies (application for a patent).
Roll 11, Item FE 171	Operating method of combustion units particularly of turbines and jet-propulsion units (Turbo jet units).
Roll 11, Item FE 168	Application for a patent. Device for the remote steering control of airplanes, gliding bombs, guided missiles etc.

Roll 11, Item FE 154	Patent application: Method of firing on fast moving targets (especially airplanes) with remote controlled projectiles equipped with homing devices.
Roll 11, Item FE 194	Propellant valve for jet-propelled missiles.
Roll 11, Item FE 188	Patent: Combustion method in rockets.
	Roll 12 1 Microfilm reel
Roll 12, Item FE 192	Patent: the liquid propelled rocket (main cut off valve).
Roll 12, Item FE 191	Liquid propelled rocket. Structural design.
Roll 12, Item FE 190	Liquid propelled rocket. Structural design.
Roll 12, Item FE 189	Liquid propelled rocket. Turbo pump driven by gas from the combustion unit.
Roll 12, Item FE 185	Method for spot welding of long sheets on the seam welding machine.
Roll 12, Item FE 182	Resistance remote transmitter for high-corrosive liquids. [note: no blank space before document]
Roll 12, Item FE 181	Testing device for measuring the magnitude of friction in bearings.
Roll 12, Item FE 180	Method for a practically instantaneous and complete decomposition of hydrogen peroxide.
Roll 12, Item FE 177	Patent for a device for steering an arrow projectile coming from great heights.
Roll 12, Item FE 176	Terminal plate for cable potheads especially for measuring cables.
Roll 12, Item FE 174	Non-acid baths for the production of anti-corrosive protective films on magnesium alloys.
Roll 12, Item FE 170	Pipe connection without welding or soldering.
Roll 12, Item FE 166	Foreign gas exerting a pressure in oxygen tanks.
Roll 12, Item FE 167	Oxygen container with pressurizing by foreign gas. Patent document #581/42 (R 112 581 la/17g. geh.).
Roll 12, Item FE 165	Oxygen container with pressurizing by means of foreign gas. Patent document #580/42 (R 112 579 la/17g. geh.).
Roll 12, Item FE 161	Method for the production of a propellant of jet propulsion engines.

Roll 12, Item FE 156	Method to separate carbon dioxide from air in the production of oxygen.
Roll 12, Item FE 155	Patent application: method concerning the adjustment of position finding and guide beam errors occurring while firing at fast moving targets, especially airplanes.
Roll 12, Item FE 148	Switching device consisting of a number of electrical contact spring assemblies (application for a patent).
Roll 12, Item FE 146	Catalysts for the decomposition of concentrated hydrogen peroxide.
Roll 12, Item FE 145	Method for increasing the reactive readiness of concentrated hydrogen peroxide solutions.
Roll 12, Item FE 144	Catalysts for the decomposition of hydrogen peroxide.
Roll 12, Item FE 140	Method for the decomposition of hydrogen peroxide.
Roll 12, Item FE 135	Method for rapid ignition of large quantities of propellant, i.e. in a combustion unit of rockets.
Roll 12, Item FE 332	Glossary of A 4 terms in German.
Roll 12, Item FE 327	Provisional technical terms of delivery for integrator (phase 1).
Roll 12, Item FE 340	The theoretical stability limits of the lateral control BV 246.
Roll 13 1 Microfilm reel	
Roll 13, Item FE 334	Hand book on aircraft construction material.
Roll 13, Item FE 333	Propellants.
Roll 13, Item FE 359	Glossary of A 4 terms in German.
Roll 13, Item FE 427	Krupp Dictionary, part II. [continued on Roll 14]
Roll 14 1 Microfilm reel	
Roll 14, Item FE 427	Krupp Dictionary, part II. [continued from Roll 13]
Roll 14, Item FE 426	Krupp Dictionary, part II.
Roll 14, Item FE 425	Krupp Dictionary, part II.

Roll 14, Item FE 346	Annual report of the "Aerodynamische Hauptabteilung" for 1940.
Roll 14, Item FE 356	Installation of oxygen producing plants in Belgium and France.
Roll 14, Item FE 355	Establishment of an inspection center for HVP at Friedrichshafen/Lake Constance.
Roll 14, Item FE 345	The steering mechanism (draft).
Roll 15 1 Microfilm reel	
Roll 15, Item FE 360	Krupp Dictionary, part I.
Roll 15, Item FE 365	Krupp Dictionary, part I.
Roll 15, Item FE 363	Krupp Dictionary, part I.
Roll 15, Item FE 347	Oxygen production plants in Belgium and France.
Roll 15, Item FE 352	Correspondence on the construction of a shelter for the assembly, storage and launching of A 4 missiles. [continued on Roll 16]
Roll 16 1 Microfilm reel	
Roll 16, Item FE 352	Correspondence on the construction of a shelter for the assembly, storage and launching of A 4 missiles. [continued from Roll 15]
Roll 16, Item FE 358	Development of the liquid fuel rocket "Rauchspurgeraet II."
Roll 16, Item FE 349	Degree of priority of the Peenemuende Project.
Roll 16, Item FE 357	Files on correspondence regarding A 4 program.
Roll 16, Item FE 449	Relay and vane motor system for guided missiles.
Roll 16, Item FE 390	Note on conference about the production of highly concentrated acid (HNO <sub>3</sub> ) for anti-aircraft missiles.
Roll 16, Item FE 371	Technical correspondence concerning combustion system (Benteler-comb. units).
Roll 16, Item FE 368	Remote controlled anti-aircraft rocket.

Roll 17

## 1 Microfilm reel

Roll 17, Item FE 466	Description of a distributor and disconnecter with any number of contacts to be inserted.
Roll 17, Item FE 464	Hydraulic vane motor LRM 12d.
Roll 17, Item FE 458	Construction and performance of the pneumatic-hydraulic power unit of the steering device "W."
Roll 17, Item FE 461	First report on stationary tests D 13 (three-dimensional auto pilot).
Roll 17, Item FE 463	Draft, description, method of operation, repairs, and attendance of the Siemens LGW switching box.
Roll 17, Item FE 465	Short description of the Siemens LGW course steering device K 12.
Roll 17, Item FE 460	Error of the pitch gyro during curvi-linear flight.
Roll 17, Item FE 462	Short description of the course regulator LAR 1.
Roll 17, Item FE 467	Photo-theodolite measuring station.
Roll 17, Item FE 457	Theoretical investigations on the operation of an automatic pilot with regulators giving a constant vane motor velocity.
Roll 17, Item FE 391	Technical correspondence concerning the quantities of B substance (alcohol) to be filled.
Roll 17, Item FE 414	Correction of graphs #3, 4 and 5 concerning the changes in the mixing ratio of propellants and in gas vapor temperature.
Roll 17, Item FE 673	Corrosions in the mixed acid tank.
Roll 17, Item FE 370	Technical correspondence concerning steam plant.
Roll 17, Item FE 729g	Report on preliminary experiments concerning propellants as the cause of corrosion.
Roll 17, Item FE 411	On the influence of the temperature on the mixing ratio of propellants.
Roll 17, Item FE 73	Regulating or steering device, especially designed for steering of airplanes, crafts, bombs and propelled missiles.
Roll 17, Item FE 448	The effects of universal suspension of course gyros on indicator and on the impulse for automatics steering control.
Roll 17, Item FE 423	Organization charts of the Elektromechanische Werke.

Roll 17, Item FE 83	Pressure test on the oxygen tank.
Roll 17, Item FE 648	[File without title.]
	Roll 18 1 Microfilm reel
Roll 18, Item FE 348	Regulations issued for "Werk Ost," Peenemuende.
Roll 18, Item FE 403	Investigations on the applicability of various fuels as propellants for the liquid rocket II, especially for the 20kg Heylandt combustion chamber.
Roll 18, Item FE 367	Correspondence concerning "missile launching operations" on the Greifswalder Oie, 1937-1938, Operation "Leuchtfeuer."
Roll 18, Item FE 591	Airborne transmitter-receiver FuG. XVII.
Roll 18, Item FE 451	Examinations on polarized telegraph relays.
Roll 18, Item FE 509	A method to continuously locate crafts, especially aircrafts [sic], on electromagnetic principle, based on measuring distance differences.
Roll 18, Item FE 593	Instruction for the installation of the 4 wire junction box in the carrier frequency device b.
Roll 18, Item FE 531	Single and coupled testing devices for steering control of guided missiles.
Roll 18, Item FE 585	Frequency meter, using method of compensation.
Roll 18, Item FE 453	MP 2 cut-off signal generator. Technical data.
	Roll 19 1 Microfilm reel
Roll 19, Item FE 528	The amplifier choke coil.
Roll 19, Item FE 522	Threshold value measurements on lead sulfide-resistance photocells of various surface areas. Report #1.
Roll 19, Item FE 505	Navigation method.
Roll 19, Item FE 504	Device to accomplish automatic control of a craft, particularly aircraft.
Roll 19, Item FE 507	Set-up to determine the direction of incidence, particularly of an electromagnetic wave (cathode-ray direction finder).
Roll 19, Item FE 503	Antenna array to furnish radiation for airplane instrument landing. Supplement to DRP 711673.



Roll 19, Item FE 537	Damping device for remote-controlled equipment.
Roll 19, Item FE 540	Theory of telephone communication across transmission lines with special regard to Pupin transmission lines.
Roll 19, Item FE 544	Alignment method for electrical oscillating circuits.
Roll 19, Item FE 549	Periodic and aperiodic oscillations in sensitive regulating arrangements.
Roll 19, Item FE 550	How to use amplifiers for measurement techniques.
Roll 19, Item FE 517	Amplifiers and transmitter tubes (stationary phenomena).
Roll 19, Item FE 543	Measuring devices in the radio repair shop.
Roll 19, Item FE 563	Behavior of radar sets of different wavelength towards foil jamming.
Roll 19, Item FE 623	Investigations on radio interferences (Hs 293).
Roll 19, Item FE 622	Investigations on radio interference (2nd report to E-No. 428/42).
Roll 19, Item FE 626	Optimum dimensions of a Laval nozzle at temporally varying back pressure.
Roll 19, Item FE 642	Development of a winged long-range rocket of greater range.
Roll 19, Item FE 657	Manual of Army radio tubes, second section. Cavity circuits and hollow pipe electrical line system (RB 178).
Roll 19, Item FE 636	Thermodynamic study of internal combustion engines.
Roll 19, Item FE 662d	Letter addressed to HVP.
Roll 19, Item FE 611	Collective report VP 02 on papers at IfS 1 and 2 March 1940.
Roll 19, Item FE 594	Construction specifications for airplane. Change sheet 9: Solid wood.
Roll 19, Item FE 574b	The guidance into the standard straight path. Theoretical treatise.
Roll 19, Item FE 518	Series of reports 1938/39. The free electron in physics and technology. 6th report: "Physics of X rays."
Roll 19, Item FE 534	Fourier analysis of impulses.

Roll 20

## 1 Microfilm reel

Roll 20, Item FE 690/B	Stability of the homing course.
Roll 20, Item FE 625	Propagation of ground waves represented in graphs for the complete wave band. Research report #1.
Roll 20, Item FE 519	Series of reports 1938/39. The free electron in physics and technology. Fourth report. "Discharge through gases."
Roll 20, Item FE 520	Series of reports 1938/39. The free electron in physics and technology. Third report. "Release of electrons."
Roll 20, Item FE 396	Acoustic filters and their application to damping the exhaust noise of motors. Part I.
Roll 20, Item FE 468/2	Development of aircraft antennas for higher speeds (350 km/h) made of composite materials (intermediate report 2).
Roll 20, Item FE 439	"Preliminary work on a simple homing device for small aircraft." DVL research report #167.
Roll 20, Item FE 436	Model investigations on the space pattern of radiation of different antenna forms between airplanes with parallel axes. DVL research report #273.
Roll 20, Item FE 471	Direction-finding compass, type C 72.
Roll 20, Item FE 472	Investigation of the radiation field of a horizontal ground antenna with medium waves for purposes of airplane blind landing.
Roll 20, Item FE 468/3	Development of aircraft antennas for higher speeds (350 km/h) made of composite materials (final report).
Roll 20, Item FE 468/1	Development of aircraft antennas for higher speeds (350 km/h) made of composite materials (intermediate report 1).
Roll 20, Item FE 373	Hypergole propellants. Hydrogen peroxide & hydrazine hydrate. [note: no blank space before document]
Roll 20, Item FE 399	Research report #1240: Aerodynamically favorable designs of non-controlled gliders.
Roll 20, Item FE 470	Propagation of micro waves. DVL research report #338.
Roll 20, Item FE 716	The deviation of remote controlled glider bombs from the pursuit course.
Roll 20, Item FE 718	Test of a method of measurement and an experimental installation to determine variable aerodynamic forces.

Roll 20, Item FE 398	Gas kinetics of very high air speeds.
Roll 20, Item FE 662/G	Conference at DFS-Teisendorf on the subject AA-rocket "Wasserfall."
Roll 20, Item FE 662/F	Conference of the "Entwicklungshauptkommission Elektrotechnik" and of the "Sonderkommission fuer Funkmesstechnik" on the subject of the development of remote control devices.
Roll 20, Item FE 662/B	Protocol of the conference, dated 16 January 1945, concerning ground installations for the "Wasserfall" project.
Roll 20, Item FE 662/A	Homing devices with an electrical basis.
Roll 20, Item FE 662/S	Conference on questions of steering control of missile "Wasserfall."
	Roll 21 1 Microfilm reel
Roll 21, Item FE 637	Project "Wasserfall."
Roll 21, Item FE 635	Collection of technical papers.
Roll 21, Item FE 639	Preliminary investigation of the high altitude fighter plane Fi 166.
Roll 21, Item FE 689	Provisional technical terms of delivery for pitch gyro LZ 39.
Roll 21, Item FE 295	Technical delivery specifications for electrical equipment in general.
Roll 21, Item FE 283	Provisional technical specifications for delivery of vent-valve Ap 100. Specification WP/409.
Roll 21, Item FE 228	Draft. Provisional technical delivery specifications for guide beam radar (with appendixes 2-5).
Roll 21, Item FE 268	Provisional technical terms of delivery for secondary distributor box.
Roll 21, Item FE 267	Provisional technical terms of delivery for the main distributor panel.
Roll 21, Item FE 260	Provisional technical delivery specifications for a potentiometer arrangement.
Roll 21, Item FE 260a	Sheet for provisional technical delivery specification changes.
Roll 21, Item FE 326	Provisional technical terms of delivery for electrical devices, general.

Roll 21, Item FE 279	Provisional technical terms of delivery for high frequency cables.
Roll 21, Item FE 277	Provisional technical terms of delivery for rod antennas.
Roll 21, Item FE 276	Provisional technical terms of delivery for antenna mounts.
Roll 21, Item FE 275	Provisional technical terms of delivery for frequency doubler.
Roll 21, Item FE 269	Provisional technical delivery specifications for the program clockwork.
Roll 21, Item FE 325	Testing and adjusting manual for Hz 8 (pitch gyro).
Roll 21, Item FE 655	Provisional technical specifications for delivery of the tail (frame work) of the A 4 missile. Specification WP/009.
Roll 21, Item FE 208	Technical delivery specifications for electrical equipment in general.
Roll 21, Item FE 280	Provisional technical terms of delivery for door antenna accessories.
Roll 21, Item FE 656	Second Section: Magnetic-field tubes.
Roll 21, Item FE 641	Series of reports on experiments concerning the emptying of a tank.
Roll 21, Item FE 633	High frequency cable with solid insulation.
Roll 21, Item FE 628	A contribution to the rate of climb indication.
Roll 21, Item FE 651	Pamphlet on launching of long range rockets from railway installations.
Roll 21, Item FE 649	Report on the progress of development of type A 4 and A 5 missiles.
Roll 21, Item FE 646	Cylindrical dynamic pressure gage.
Roll 21, Item FE 645/K	A planimeter especially designed for determination of effective values.
Roll 21, Item FE 645/L	Mathematical integrators. [note: no blank space before document]
Roll 21, Item FE 645/D	Modern mathematical machines.
Roll 21, Item FE 645/B	Device for superimposing sine curves.
Roll 21, Item FE 645/C	Comment on a remark by Feinberg and historical supplement to Fourier's analysis of functions with jumps, breaks, and other peculiarities.

Roll 21, Item FE 645/A	Models illustrating the development of logarithmic paper.
Roll 21, Item FE 645/E	Illustration of Picard's iteration of differential equations.
Roll 21, Item FE 645/F	Transformation of curve tables into nomograms.
Roll 21, Item FE 645/G	Illustration of the formula $e^{i\varphi} = \cos \varphi + i \sin \varphi$ .
Roll 21, Item FE 645/H	Area of a spherical rectangle.
Roll 21, Item FE 645/J	New power integrations used for the determination of $\Phi y^2 dx$ and $\Phi \sqrt{y} dx$ .
Roll 21, Item FE 598	Electronic interferences of ice.
Roll 21, Item FE 587	Investigations made with the aid of a glider on vertical thermal motions over the ground.
Roll 21, Item FE 536	Acceleration apparatus (test equipment).
Roll 21, Item FE 529	Test report: disintegration test on iron containers.
Roll 21, Item FE 609	The guiding of glider bomb models.
	Roll 22 1 Microfilm reel
Roll 22, Item FE 532	Outline of ranging methods and measuring instruments in use at present of Army Ordnance, Inspection Division.
Roll 22, Item FE 539	Contribution to the imitation of differential equations for stability investigations.
Roll 22, Item FE 589	Reduction of the exterior ballistic factors by weighting factors for constant atmospheric layers.
Roll 22, Item FE 579	Investigations of air pattern in the wind tunnel.
Roll 22, Item FE 616	Induction fuzes.
Roll 22, Item FE 659	Short-circuited non-quasi-stationary resonant circuits (Cavity circuits energized according to Lecher's principles.)

Roll 22, Item FE 658	Influences of the short-circuit disk resistance and of additional attenuation upon the resonant resistance of metal pipe lines, adjusted as to their anti-nodes. [note: no blank space before document]
Roll 22, Item FE 660	The qualities of tubes of the magnetic field type. Third section: Type RD 2 Mh. [note: no blank space before document]
Roll 22, Item FE 662/C	Comparative considerations of the efficiency of the project "Enzian," "Schmetterling" and "Wasserfall."
Roll 22, Item FE 620	The common target area for the most elementary program control, "Hit on the first circle" as dependent on dimension. Discussion of physical phenomena influencing the controls. Report #9.
Roll 22, Item FE 567	Investigations on increasing the RPM of aircraft engines (Third report).
Roll 22, Item FE 564	Influence of the suction pipe- and other losses on the performance of the Opel engine.
Roll 22, Item FE 554	Ignition and combustion in Diesel engines.
Roll 22, Item FE 664/8	Protection of the AA missile "Wasserfall" tanks from corrosion by nitric acid.
Roll 22, Item FE 664/7	Present stage of the static tests on "Wasserfall" structural parts.
Roll 22, Item FE 664/3	Corrosion problems in the AA missile "Wasserfall."
Roll 23 1 Microfilm reel	
Roll 23, Item FE 638/1	Development of a chemical short range rocket (320mm) (Germ. abbr. 32cm Wurfkoerper M 50) using special charges.
Roll 23, Item FE 95	Cut-off evaluation cabinet. (Ground installation.)
Roll 23, Item FE 798	Fu SE 62, C and D (Wuerzburg) GL radar, Handbook, booklet 2: Description and components.
Roll 23, Item FE 664/2	Surface protection of the tanks of the AA missile "Wasserfall."
Roll 23, Item FE 664/1	Investigation on the corrosion of the bursting diaphragms in the AA missile "Wasserfall."

Roll 23, Item FE 664/4	Miscellaneous correspondence concerning fabrication of experimental parts of the "Wasserfall."
Roll 23, Item FE 662/R	Conference on "Vesuv" development.
Roll 24 1 Microfilm reel	
Roll 24, Item FE 342	Files on correspondence regarding A 4 program.
Roll 24, Item FE 663	Handbook on "Electrical Devices."
Roll 24, Item FE 96	Test of the cut-off evaluation transmitter. Notes: <ul style="list-style-type: none"> <li>• A.) Testing of individual unit.</li> <li>• B.) Testing of the total assembly.</li> </ul>
Roll 24, Item FE 252	Provisional technical specifications for delivery of the lower portion of the combustion unit of the A 4 missile. Specification WP/102.
Roll 24, Item FE 249	Provisional technical specifications for delivery of combustion units of the A 4 missile. Specification WP/101.
Roll 24, Item FE 664/20	Miscellaneous correspondence concerning the "Wasserfall" project.
Roll 25 1 Microfilm reel	
Roll 25, Item FE 258	Technical terms of delivery for electric devices, general.
Roll 25, Item FE 662	Reference slips to conferences on questions of steering control of AA-rockets, especially "Wasserfall."
Roll 25, Item FE 662/Q	Conference on ground installations for remote control of AA-rockets.
Roll 25, Item FE 662/P	Conference on the missile-mounted supply of electric energy.
Roll 25, Item FE 662/N	Conference on the development of steering control devices and vane motors for project "Wasserfall."
Roll 25, Item FE 662/M	Temperature requirements for AA-rockets.
Roll 25, Item FE 662/L	Conference on wiring of the ground installation for AA-rockets.

Roll 25, Item FE 662/K	Conference between WVA and HVP on steering control of missile "Wasserfall" and problems of vane constructions.
Roll 25, Item FE 662/I	Conference between OKL, Flak-E (Oberkommando der Luftwaffe, Amtsgruppe fuer Flak-Entwicklung und -Ruestung) and SSW/Nuernberg (Siemens Schuckart Werke Nuernberg) on steering control of AA-rockets by searchlight.
Roll 25, Item FE 662/H	Conference between Geissler HVP and Wegener WVA on steering control of the "Wasserfall."
Roll 25, Item FE 662/E	Reference slip to the protocol of the conference at Wa Pruf 7, Berlin on November 20, 1944.
Roll 25, Item FE 671	Investigation on protecting zinc from corrosion.
Roll 25, Item FE 667/15	Spot welding of center section of the A 4 (report of a meeting).
Roll 25, Item FE 667/14	Circular letters and technical bulletins.
Roll 25, Item FE 667/3	Technical data on: X-ray examinations of combustion units of the AA guided missile "Wasserfall."
Roll 25, Item FE 667/8	Surface protection of the pipe lines of the steam generating plant.
Roll 25, Item FE 667/5	Experiments with a new fuel on test stand VIII.
Roll 25, Item FE 667/4	Technical correspondence on material tests.
Roll 25, Item [mislabelled FE 738/11]	Entwurf einer kleinen Flakrackete vom Typ "Wasserfall." [Design of a small antiaircraft rocket of the type "Wasserfall." Note: This document is misidentified as FE 738/11; subject coding GD 666.11.3. Document FE 738/11 appears later on Roll 25 as "Report #4/44..."]
Roll 25, Item FE 667/12	Report on the influence of the launching delay upon the range (in addition to archives report #57/17, 57/18, and file note E 272/44).
Roll 25, Item FE 739/4	A. Load tests on countersunk screws. B. Load tests on sheet metal joints made with countersunk screws.
Roll 25, Item FE 664/6	Welding of VISOL (vinyl isobutylether) and MIXED ACID tanks.
Roll 25, Item FE 664/21	Notes on discussions concerning materials for the "Wasserfall."



Roll 25, Item FE 664/11	Technical correspondence.
Roll 25, Item FE 738/11	Report #4/44 concerning experimental missile W 5.
Roll 25, Item FE 664/15	Report #231, on propulsion unit thrust structure.
Roll 25, Item FE 664/5/b	Reports on graphite- and silicon-carbide jet vane tests for the AA guided missile.
Roll 25, Item FE 664/10	Testing the strength of spot welds.
Roll 25, Item FE 664/9	Connection of the rib to the tail frame by means of spot welds, missile "Wasserfall."
Roll 25, Item FE 565	5th report. Increase of output of supercharged engines through intercooling of the manifold air by means of water injection, particularly at the supercharged DB 603 L.
Roll 25, Item FE 666	Ground instruments.
Roll 25, Item FE 664/18	Tests on fin sections of the "Wasserfall."
Roll 25, Item FE 664/12	Tests on wing spars of missile "Wasserfall."
Roll 25, Item FE 558	Studies on intake manifolds, Part I: Calculations and graphs on the flow of fuel in the intake manifold.
Roll 25, Item FE 621	Iteration methods applied to differential equations.
Roll 25, Item FE 610	Report on activities of the Institute for Radiation. [continued on Roll 26]
	Roll 26 1 Microfilm reel
Roll 26, Item FE 610	Report on activities of the Institute for Radiation. [continued from Roll 25]
Roll 26, Item FE 679	Miscellaneous correspondence concerning homing devices.
Roll 26, Item FE 577	Temporary specifications for rocket-assisted projectiles type 4831.

Roll 26, Item [no number]	Physikalische Grundlegen des magnetischen Steuerverfahrens. [Physical basis of the magnetic control procedure.]
Roll 26, Item FE 607	Mathematical fundamentals of the courses of torpedoes steered by homing device with a radial steering effect and a constant lead.
Roll 26, Item FE 607	Compensation circuit for direct measurement of characteristics of electronic valves.
Roll 26, Item FE 606	Tests and studies on Laval nozzles and orifices. 1st report.
Roll 26, Item FE 584	Technical manual on motors. Part 1: "Fundamentals of combustion engines."
Roll 26, Item FE 533	Teletyping, part 1, fundamentals.
Roll 26, Item FE 527	Engineering Research Report. Intermediate report #118/1943. Third meeting of the Committee for Problems of Combustion in Engines.
Roll 26, Item FE 559	Studies on intake manifolds. Part 2: Air-fuel mixing process in multicylinder internal combustion engines.
Roll 26, Item FE 782	Jahrbuch der Deutschen Akademie der Luftfahrtforschung 1943/1944. [Yearbook of the German Academy for Aviation Research 1943/1944]
Roll 26, Item FE 760	Manual of the guided glide bomb Hs 293A-1. [continued on Roll 27]
Roll 27 1 Microfilm reel	
Roll 27, Item FE 760	Manual of the guided glide bomb Hs 293A-1. [continued from Roll 26]
Roll 27, Item FE 408	On rocket propulsion for long range bombers.
Roll 27, Item FE 298	Call signs and radio codes designated "alarm-coast."
Roll 27, Item FE 785	The possibility of locating the firing site of large caliber rocket missiles.
Roll 27, Item FE 783	Three component measurements with the fin stabilized projectile R 100 MS in the supersonic wind tunnel.
Roll 27, Item FE 784	Three component measurements with the projectile R 100 BS in the supersonic wind tunnel.
Roll 27, Item FE 401	Numerical solution of the Possio integral equation of a vibrating airfoil in a plane subsonic flow.

Roll 27, Item FE 435	Numerical solution of the Possio integral equation of a vibrating airfoil in a plane subsonic flow.
Roll 27, Item FE 434	Studies and memoranda #3211: Contribution to tables for the computation of the aerodynamic forces of the vibrating wing in two dimensional subsonic flow.
Roll 27, Item FE 444	Test performed at an electrical extension measuring set as developed by Ratzke.
Roll 27, Item FE 443	Electrical set to measure force variations.
Roll 27, Item FE 786	Wind tunnel measurements of a slender fin stabilized projectile.
Roll 27, Item FE 164	Patent specification # 735 235. Spektrallinienphotometer. [spectral line photometer]
Roll 27, Item FE 82	Documentary note: state of investigations of the tail section of the A4 missile.
Roll 27, Item FE 136	Method to prevent explosions in rockets. Patent document E 58630 Ia/46 g.
Roll 27, Item FE 78	Investigation on the function of the vent valve.
Roll 27, Item FE 80	Vibration measurements on a steam installation with different peroxide atomizers on test stand V.
Roll 27, Item FE 68d	Automatic steering control of airplanes and arrow-stable missiles.
Roll 27, Item FE 131	Method for the chlorination of acetylene especially for the manufacturing of acetylene dichloride.
Roll 27, Item FE 132	Application for a patent. Method to automatically find out the sighting direction to a visible target.
Roll 27, Item FE 142	Electrical system for automatic tank filling.
Roll 27, Item FE 137	Liquid propellant reaction with oxygen carriers.
Roll 27, Item FE 302	Work report on the development of measurements during the period of October-December 1944.
Roll 27, Item FE 319	Method to reduce pressure increases caused by temperature increases, or to increase the quantity of liquids in tightly closed containers, especially fuel containers.
Roll 27, Item FE 318	Device for measuring fluid in a container.

Roll 28

## 1 Microfilm reel

Roll 28, Item FE 429	Notes on the capacity of the alcohol and oxygen tanks.
Roll 28, Item FE 328	Minutes of conference held at Karlshagen I on 30 November 1944.
Roll 28, Item FE 322	Reports of model investigations on steering control for "Wasserfall."
Roll 28, Item FE 332/1	Lever of the steering device for Wasserfall. [note: no blank space before document]
Roll 28, Item FE 322/2	Program for investigation on vane motors and control units. [note: no blank space before document]
Roll 28, Item FE 322/3	Report on model investigation on steering control V2 for missiles #1 and 2. [note: no blank space before document]
Roll 28, Item FE 700	Conferences and reference slips on problems of steering control and construction of the AA-rocket "Wasserfall."
Roll 28, Item FE 700/S	Conference on AA-rocket "Wasserfall." [note: no blank space before document]
Roll 28, Item FE 700/Y	Conference on AA-rocket "Wasserfall." [note: no blank space before document]
Roll 28, Item FE 725/3	Five collar control valve K12.
Roll 28, Item FE 738/7	Temperature measurements on a AA-missile C2.
Roll 28, Item FE 700/12	Conference on course gyro potentiometer.
Roll 28, Item FE 700/111	Coordination of the steering control signals to the cylindrical control stick.
Roll 28, Item FE 700/103	Conference on construction of the air vanes.
Roll 28, Item FE 700/109	Conference on construction of the air vanes for "Wasserfall." [note: no blank space before document]
Roll 28, Item FE 700/104	Conference on development of vane motor and control unit for AA rocket "Wasserfall."
Roll 28, Item FE 700/106	Conference on vane motor D19 and development of a primary electric cell.

	[note: no blank space before document]
Roll 28, Item FE 700/T	Conference on principles for the vanes. [note: no blank space before document]
Roll 28, Item FE 700/W	Conference on electric vane motors. [note: no blank space before document]
Roll 28, Item FE 700/N	Experience with data transmitter system "Messina I" at the launching of missiles "Wasserfall." [two copies on film]
Roll 28, Item FE 700/X	Conference between HVP and firm "Telefunken" on adjustment of data transmitter systems "Kren-Brigg" before launching. [note: no blank space before document]
Roll 28, Item FE 700/108	Conference on data transmitters "Kragge" and "Brigg." [note: no blank space before document]
Roll 28, Item FE 700/113	Conference on testing of "Messina" devices. [note: no blank space before document]
Roll 28, Item FE 700/R	Conference between HVP and Chef TLR Flak-E 5 on the storage battery 32 B 7.5.
Roll 28, Item FE 700/I	Conference on employment of vane motors for "Wasserfall."
Roll 28, Item FE 700/H	Conference on data transmitter system "Messina I."
Roll 28, Item FE 699/E	Production and assembly of structural parts of "Wasserfall."
Roll 28, Item FE 698/G	Conference on d-c power supply for steering machines "Wasserfall."
Roll 28, Item FE 698/J	Bipolar electric cells. [note: no blank space before document]
Roll 28, Item FE 699/A	Conference on antennae for C 2.
Roll 28, Item FE 699/B	Model unit for "Wasserfall."
Roll 28, Item FE 700/M	Report on visit at the firms "Siebert-Kuehn" and AEG, Annaberg.

Roll 28, Item FE 700/K	Conference on steering device K12.
Roll 28, Item FE 700/L	Report on visit at the firm AEG, Annaberg. [note: no blank space before document]
Roll 28, Item FE 700/P	Conference on the steering devices for "Wasserfall." [note: no blank space before document]
Roll 28, Item FE 700/V	Report on visit to the firm AEG, Annaberg. [note: no blank space before document]
Roll 28, Item FE 700/107	Conference on automatic pilot and its interference elimination. [note: no blank space before document]
Roll 28, Item FE 682	Homing device for project "Wasserfall."
Roll 28, Item FE 683	Homing device "Karussel."
Roll 28, Item FE 698/B	Conference on homing device for AA-rockets.
Roll 28, Item FE 698/C	Conference between HVP and Telefunken Co on rod antennae for test rockets "Wasserfall" and test stands for AA-rockets.
Roll 28, Item FE 698/D	Air vanes for test rockets "Wasserfall."
Roll 28, Item FE 698	Conference and reference slips on questions of steering control of AA-rockets.
Roll 28, Item FE 698/P	Conference on steering control of AA-rocket by searchlight.
Roll 28, Item FE 692d	Attitudes toward the preliminary investigations on the Fi 166.
Roll 28, Item FE 692e	Report on development and start of production of the jato unit B-8a (set RI 101). Designed by Peenemuende.
Roll 28, Item FE 614	Low reaction pick off.
Roll 28, Item FE 456	Description of a new automatic pilot.
Roll 28, Item FE 759	Missile A 4: Report on work done to reduce the requirement of scarce metals.
Roll 28, Item FE 442	Development of far ranging universal signal transmitters at the institute for flight equipment (Prof. Fischel) of the DFS.

Roll 28, Item FE 329	Proposal for standardized symbols of formulae and terms for projectiles with homing devices.
Roll 28, Item FE 430	An instrument for evolution of Stieltjes integrals.
Roll 28, Item FE 597	Grinding of quartz. Influence of the liquid carrier of the grinding material.
Roll 28, Item FE 694/A	Correspondence written by EW G.m.b.H. and Mittelwerk G.m.b.H.
Roll 28, Item FE 692b	Schedule of work for missile A 4 covering final assembly, operations at the combustion test stand and launching preparations.
Roll 28, Item FE 692c	General organization report for progress on A 4 and A 8. [note: no blank space before document]
Roll 28, Item FE 690/D	Report for the efficiency of devices for preadjustment of homing devices and of the homing devices themselves for project "Wasserfall."
Roll 28, Item FE 692a	Report on the work of the Division of Statics concerning the A 4 from October 1942 to April 1943.
Roll 29 1 Microfilm reel	
Roll 29, Item FE 691/A	Oscillations of the AA-rocket about the desired path during the homing course (interception chaser system).
Roll 29, Item FE 691/B	Introduction to the method of steering control by homing devices. [note: no blank space before document]
Roll 29, Item FE 691/C	Equations of motion for AA-rockets which are steered by homing devices. [note: no blank space before document]
Roll 29, Item FE 691/D	Theoretical investigation on the oscillations about the desired course. [note: no blank space before document]
Roll 29, Item FE 694/B	Volume of production and expenditure of manpower for A 4 missiles at Mittelwerk G.m.b.H.
Roll 29, Item FE 694/C	Complaints of faulty manufacture by Mittelwerk.
Roll 29, Item FE 695	Reports on tests performed before and during launching of missile A 4, and on discussions by a staff of HVP engineers and manufacturers representatives.
Roll 29, Item FE 690/E	Stability of the homing course.

Roll 29, Item FE 590	DVL investigations #830: On the photoelectric emission centers of alkali-antimony cathodes.
Roll 29, Item FE 397	The minimum drag of German high speed airplane of the years 1935 to 1937 in comparison to their actual drag.
Roll 29, Item [no number]	Deutsche Luftfahrtforschung Forschungsbericht Nr. 828: Kurze Derstellung der Raketentechnik. E. Sänger. [German Aviation Research. Research report No. 828: Position brief of rocket technology. E. Sänger.]
Roll 29, Item FE 446	Report on a meeting of the department for aircraft radio at Berlin. DVL.
Roll 29, Item FE 415	Report on a meeting of the department for aircraft radio at Munich. DVL.
Roll 29, Item FE 698/E	Conference at HVP on steering control of AA rockets between HVP and Luftfahrtgeraetwerk Hakenfelde.
Roll 29, Item FE 698/J	Conference on steering machines for "Wasserfall." [note: no blank space before document]
Roll 29, Item FE 698/K	Lead computer. [note: no blank space before document]
Roll 29, Item FE 698/N	Hydraulic steering machine D19 for AA-rocket "Wasserfall." [note: no blank space before document]
Roll 29, Item FE 725A/2	Meeting on sheet metal tests.
Roll 29, Item FE 725A/1	Behavior of the D19 machine (steering control machine of the vane motor project AA guided missile). [note: no blank space before document]
Roll 29, Item FE 690/L	Comparative considerations on proposal for the solution of the problem of the preadjustment and stabilization of the homing device.
Roll 30 1 Microfilm reel	
Roll 30, Item FE 447	Report on a meeting of the department for aircraft radio at Dresden. DVL.
Roll 30, Item FE 499	Noise and noise damping at planes. Report on a special meeting in Berlin 22 Feb 1935.
Roll 30, Item FE 409	Addendum to the report of the meeting in the city of Dresden on November 2nd and 3rd, 1934. DVL.
Roll 30, Item FE 680	Homing device and that stage of development.



Roll 30, Item FE  
753A

Guiding system of "Wasserfall."

Roll 30, Item FE 699

Conferences on production and development of project "Wasserfall."

Roll 30, Item FE 699/H	Development of AA-rocket "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/D	Conference on AA-rocket "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/I	Conference on "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/K	Conference on "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/L	Conference on "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/M	Conference on "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/N	Conference on "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/O	Conference on project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/P	Conference on project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/Q	Conference on project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/S	Conference on project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/T	Conference on development stage of project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/U	Conference on project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/V	Conference on project "Wasserfall." [note: no blank space before document]
Roll 30, Item FE 699/W	Conference on rocket weapon. [note: no blank space before document]
Roll 30, Item FE 725/4	Technical correspondence.
Roll 30, Item FE 599	Meeting report #073/007

Roll 30, Item FE 400	Special line of sight courses for missiles with considerably variable velocity.
Roll 30, Item FE 431	Studies and memoranda #1260/2. Graphs of pressure distribution for section NACA 230-12 at high subsonic speed.
Roll 30, Item FE 406	Behavior of "rate gyro" type Askania.
	Roll 31 1 Microfilm reel
Roll 31, Item FE 338	A 4 film production and development.
Roll 31, Item FE 331	Technical correspondence 1944-45.
Roll 31, Item FE 667/10	Reports of material tests of spherical nitrogen containers for project "Wasserfall."
Roll 31, Item FE 183	Oil separator for waste water of air compressors.
Roll 31, Item FE 733	Technical correspondence and reports from 1935-44, by Wa Pruef 11 (Army Ordnance Office).
Roll 31, Item FE 432	Studies and memoranda #1260/1. Graphs of pressure distribution for section NACA 230-09 at high subsonic speeds.
Roll 31, Item FE 445	Model representation of an anti-aircraft guided missile (AAGM).
Roll 31, Item FE 394	The testing device for the cross winged missile with special considerations of the conditions of "Wasserfall."
Roll 31, Item FE 395	Tests on data transmitters FMS 50 Z with vibrator power supply.
Roll 31, Item FE 601	Subjects for prize competition in the field of radio engineering: Ultra-red methods.
Roll 31, Item FE 600	Report of the meeting on February 17th and 18th, 1939, at Jena. Report #110.
Roll 31, Item FE 603	Calculation of courses and isochrone of missiles provided with homing devices, unlimited manouverability [sic], constant squint angle, and constant target course and velocity as central problem.
Roll 31, Item FE 605	Error of indication for universally suspended gyros.
Roll 31, Item FE 341	Files on correspondence regarding A 4 program.
Roll 31, Item FE 309	Patent for "Rocket Steering."

Roll 31, Item FE 303	Steering control of missile A 4.
Roll 31, Item FE 701	Report on an inspection of the "Wasserfall" project at Peenemuende made between 19 and 22 July 1943 by H. T. Thiry.
Roll 31, Item FE 751	Technical correspondence for the year 1934 concerning the first successful launching tests of rockets.
Roll 31, Item FE 675	Corrosion problems in the AA missile "Wasserfall."
Roll 31, Item FE 675/3	Nitric acid and mixed acid proof material for the construction of the AA missile "Wasserfall." [continued on Roll 32. Note: no blank space before document]
Roll 32 1 Microfilm reel	
Roll 32, Item FE 673/3	Nitric acid and mixed acid proof material for the construction of the AA missile "Wasserfall." [continued from Roll 31]
Roll 32, Item FE 675/2	Methods for surface treating of the materials used for the construction of the AA missile "Wasserfall." [note: no blank space before document]
Roll 32, Item FE 675/4	Investigations on lacquers which have been proposed as protective layers in mixed acid tanks of the AA missile "Wasserfall." [note: no blank space before document]
Roll 32, Item FE 675/5	Nitric acid proof synthetic materials for the construction of the AA missile "Wasserfall." [note: no blank space before document]
Roll 32, Item FE 675/1	Corrosion prevention for Tomback (copper alloy). [note: no blank space before document]
Roll 32, Item FE 675/6	Literature references on corrosion of iron and steel caused by nitric acid. [note: no blank space before document]
Roll 32, Item FE 675/9	Corrosion experiments on tank of the AA missile "Wasserfall," welded by various methods. [note: no blank space before document]
Roll 32, Item FE 675/8	Experiments to obtain nitric acid proof coatings for spruce wood.
Roll 32, Item FE 675/7	Examinations on the corrosion caused by mixed acids of different composition.

Roll 32, Item FE 676/1	Reports on corrosion and welding tests on sheet steel for acid tanks and on aluminum acid tanks in AA guided missiles. [note: no blank space before document]
Roll 32, Item FE 738/1	Correspondence on the development of AA rockets in particular.
	Roll 33 1 Microfilm reel
Roll 33, Item FE 661A	Equipment description for A 4.
Roll 33, Item FE 700/Q	Conference on parts of the propulsion unit of missile "Wasserfall."
Roll 33, Item FE 700/D	Conference on construction of some parts for "Wasserfall."
Roll 33, Item FE 698/C	Magnetic plug for spring flaps.
Roll 33, Item FE 698/O	Letter addressed to HVP.
Roll 33, Item FE 698/H	Conference on project "Wasserfall."
Roll 33, Item FE 681	Provision conditions for homing devices.
Roll 33, Item FE 741	Rocket research of USSR.
Roll 33, Item FE 688	Foreign press reports on the German secret weapon (A 4).
Roll 33, Item FE 699/R	Conference on steering control of A 9.
Roll 33, Item FE 676/2	Correspondence on acid proof protective paints and coatings for acid tanks in AA guided missiles.
Roll 33, Item FE 756	Production and acceptance specifications: Project Wasserfall.
Roll 33, Item FE 755/5	AA guided missile "Wasserfall" project (meeting report).
Roll 33, Item FE 727/A	Technical correspondence on the liquid fuel rocket project.
Roll 33, Item FE 685	Description of the wide band "Rehbock" U5 set.

Roll 33, Item FE 700/A	Conference on test launching "Wasserfall."
Roll 33, Item FE 699/G	Free flight test "Wasserfall."
Roll 33, Item FE 699/F	Test program "Wasserfall." [note: no blank space before document]
Roll 33, Item FE 65/22	Three component measurements on the model glider A 4 with wing types V 12b and V 12c.
Roll 33, Item FE 753C	Test flights and experiments on the complete missile ("Wasserfall").
Roll 33, Item FE 753D	Ground organization for anti-aircraft rocket "Wasserfall."
Roll 33, Item FE 679	Miscellaneous correspondence concerning homing devices. [continued on Roll 37]
	Roll 34 1 Microfilm reel
Roll 34, Item FE 723	Test launching.
Roll 34, Item FE 696	Suggestion for an automatically controlled collision torpedo.
Roll 34, Item FE 739	Welding operations on missile "Wasserfall."
Roll 34, Item FE 739/2	Connection of the rib to the tail frame by means of spot welds, missile "Wasserfall" (this is a duplicate of FE 664/9).
Roll 34, Item FE 739/6	Reports on tests of tanks for the "Wasserfall."
Roll 34, Item FE 755/2	Reports on inspection trips to firms, which produce tail hulls for the "Wasserfall" project.
Roll 34, Item FE 729D	Enameling as corrosion protection, especially for construction parts of the AA missile "Wasserfall."
Roll 34, Item FE 729M	Nitric acid proof, synthetic material.

## Roll 35

## 1 Microfilm reel

Roll 35, Item FE 755/6	Surface protection of parts of the AA missile "Wasserfall." [continued from Roll 36]
Roll 35, Item FE 677	Alteration schedules for the A 4 missile.
Roll 35, Item FE 726	Test flights of A 4.
Roll 35, Item FE 763M	Work distribution.
Roll 35, Item FE 684	Use of infra-red instrument and other optical systems for homing devices.
Roll 35, Item FE 729B	Comparing X-ray investigations on silicon carbide and graphite jet vanes.
Roll 35, Item FE 729F	Propellants for the AA missile "Wasserfall."
Roll 35, Item FE 738/12	Documentary note regarding the position of the center of gravity of the mass-produced missile and determination of the weight of the explosive charge.
Roll 35, Item FE 753B	Explosive charge of "Wasserfall."
Roll 35, Item FE 1685/2	Experimental working platform tower.
Roll 35, Item FE 755/11	Code names for missile "Wasserfall."

Roll 36  
1 Microfilm reel

Roll 36, Item FE 765	Liquid fuel rockets.
Roll 36, Item FE 763/F	Course of coefficients for calculation and model testing for missile A 4 with an increase in the adjustment of the pressure reduction valve of 4 atmospheres gage.
Roll 36, Item FE 792	Synopsis of Air Force radio communication equipment.
Roll 36, Item FE 686	Provisional description of the "Ratte" indicator set.
Roll 36, Item FE 728/a	Weekly or 10 days reports by the HAP from 1942.

Roll 36, Item FE 755/3	Correspondence referring to conferences of the HVP, Karlshagen.
Roll 36, Item FE 729N	Draining of fuel tanks.
Roll 36, Item FE 729C	Data on bending strength and static load tests concerning jet vanes of the AA missile "Wasserfall."
Roll 36, Item FE 755/1	Explosive rivets used to attach the jet vanes and wheeled launching base to AA missile "Wasserfall."
Roll 36, Item FE 739/5	Test of wing parts for the "Wasserfall."
Roll 36, Item FE 721	Material tests made on combustion units of AA guided missiles to study the cause of the burning through of the material.
Roll 36, Item FE 700/O	Conference on propulsion unit for "Wasserfall."
Roll 36, Item FE 755/7	Correspondence and reports on inspection trips to firms, which produce individual parts for the "Wasserfall" project.
Roll 36, Item FE 729H	Methods for analyzing pyrocatechal fuels.
Roll 36, Item FE 729/O	Investigations on damaged C-2 combustion units.
Roll 36, Item FE 739/1	Internal correspondence on tests of parts of project "Wasserfall."
Roll 36, Item FE 700/114	Conference on tests and measuring values of "Wasserfall."
Roll 36, Item FE 755/4	Correspondence in connection with the manufacture of control devices for missile "Wasserfall."
Roll 36, Item FE 700/B	Assembly of the test missile "Wasserfall" by "Linke-Hofmann-Werke," Breslau, and Zittauer Maschinenfabrik.
Roll 36, Item FE 700/C	Conference on delivery of parts for steering control "Wasserfall."
Roll 36, Item FE 700/E	Conference on supervision of the assembly and an acceptance test for test missile "Wasserfall."
Roll 36, Item FE 700/G	Conference on technical specifications for test missile "Wasserfall."



Roll 36, Item FE 738/14	Documentary note concerning a spherical pressure tank for the "Wasserfall."
Roll 36, Item FE 738/13	Documentary note concerning propulsion unit defects of missile "Wasserfall."
Roll 36, Item FE 738/2	Survey and critique of the present development of AA rocket missiles ("Vesuv-Program")
Roll 36, Item FE 738/3	Synopsis of state of research to date on remote controlled ground to air missiles, within the sphere of research activities of the German Air Force (Feuerlilie). [note: no blank space before document]
Roll 36, Item FE 763/H	Proposal for correction of the influence of the acceleration due to gravity on the range measurement of missile A 4 b.
Roll 36, Item FE 700/105	Reference slip on electrical measurements of drop units.
Roll 36, Item FE 738/5	Comparison of the performance of missiles "Enzian," "Schmetterling," and "Wasserfall."
Roll 36, Item FE 769	Annual report (1940) on development of flight instruments and steering controls.
Roll 36, Item FE 808	Anti-aircraft radar FMGer 40L handbook; operational instructions.
Roll 36, Item FE 755	Propellants for heat engines, operating independent of the oxygen from the air.
Roll 36, Item FE 774	Synthetic material for corrosion prevention.
Roll 36, Item FE 738/6	Corrosion tests on "Wasserfall" acid and fuel tanks.
Roll 36, Item FE 755/6	Surface protection of parts of the AA missile "Wasserfall." [continued on Roll 35]
Roll 37 1 Microfilm reel	
Roll 37, Item FE 679	Miscellaneous correspondence concerning homing devices. [continued from Roll 33]
Roll 37, Item FE 724/A	Technical correspondence from 1931-1937 between the Army Ordnance Office and several manufacturers of rocket motors and steam generators.
Roll 37, Item FE 724/B	Technical correspondence from 1931-1937 between the Army Ordnance Office and several manufacturers of rocket motors and steam generators.

Roll 37, Item FE 724/C	Technical correspondence from 1931-1937 between the Army Ordnance Office and several manufacturers of rocket motors and steam generators.
Roll 37, Item FE 402	Thermodynamic analysis of high speed diesel engines.
	Roll 38 1 Microfilm reel
Roll 38, Item FE 739/8	Statical breaking test of wing section made according to drawings #10123 and 10124 ("Wasserfall project").
Roll 38, Item FE 755/8	File of correspondence.
Roll 38, Item FE 755/9	File of correspondence on production of "Wasserfall."
Roll 38, Item FE 755/10	File of correspondence.
Roll 38, Item FE 739/4	A. Load tests on countersunk screws. B. Load tests on sheet metal joints made with countersunk screws.
Roll 38, Item FE 770	Part list of material needed for the assembly of the A 4.
Roll 38, Item FE 98	Provisional evaluation direction for electrical measuring.
Roll 38, Item FE 795	Radio transceiver FuSE 62C, D.
Roll 38, Item FE 797	FuSE 62, C and D (Wuerzburg) GL and IFF radar. Handbook, booklet 1: General.
Roll 38, Item FE 766	Emergency plan and last improvements on the A 4.
	Roll 39 1 Microfilm reel
Roll 39, Item FE 850	Heimat-Artillerie-Park 11, Bild-Archiv, 1943. Offen, Blatt 1-126. [Open photo file, 1943 (Homeland Artillery Park 11). pp.1-126]
Roll 39, Item FE 855	Heimat-Artillerie-Park 11, Bild-Archiv, 1944. Offen, Blatt 1-129. [Open photo file, 1944 (Homeland Artillery Park 11). pp.1-129]
Roll 39, Item FE 859	Heimat-Artillerie-Park 11, Bild-Archiv. Geheim Kommandosache. [Top Secret photo file, damage from British air raids (Homeland Artillery Park 11).]
Roll 39, Item FE 857	Heimat Artillerie Park 11, Bild-Archiv, 1945. Geheim Kommandosache, Blatt 1-35.

[Top Secret photo file, 1945 (Homeland Artillery Park 11). pp.1-35]

Roll 40  
1 Microfilm reel

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| Roll 40, Item FE 829 | Einstellungsgeschichte der Werkstatt Peenemünde.<br>[Developmental History of the Peenemünde work station]  |
| Roll 40, Item FE 854 | Heimat Artillerie Park 11, Bild-Archiv, 1944. Geheim Kommandosache, Blatt 3-98.<br>[Top Secret photo file, 1944 (Homeland Artillery Park 11), pp.3-98.] |
| Roll 40, Item FE 851 | Heimat Artillerie Park 11, Bild-Archiv, 1943. Geheim, Blatt 1-65.<br>[Secret photo file, 1943 (Homeland Artillery Park 11), pp.1-65]                    |
| Roll 40, Item FE 852 | Heimat Artillerie Park 11, Bild-Archiv, 1944. Geheim, Blatt 1-120.<br>[Secret photo file, 1944 (Homeland Artillery Park 11), pp.1-120]                  |
| Roll 40, Item FE 847 | Heimat Artillerie Park 11, Bild-Archiv, 1940. Offen, Blatt 1-28.<br>[Open photo file, 1940 (Homeland Artillery Park 11), pp.1-28]                       |
| Roll 40, Item FE 858 | Heimat Artillerie Park 11, Bild-Archiv, 1944. Offen, V.<br>[Open photo file, 1944 (Homeland Artillery Park 11), Vol.V]                                  |
| Roll 40, Item FE 853 | Heimat Artillerie Park 11, Bild-Archiv, 1944. Geheim, Blatt 121-166.<br>[Secret photo file, 1944 (Homeland Artillery Park 11), pp.121-166]              |

Roll 41  
1 Microfilm reel

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| Roll 41, Item FE 746/a-c | Technical correspondence concerning the development of jets and rocket motors as carried out by HVP-Peenemuende.<br>[continued from Roll 47] |
| Roll 41, Item FE 734     | Technical correspondence 1944-45 of the "Elektromechanische Werke" concerning the "Wasserfall" guided missile.                               |
| Roll 41, Item FE 732     | Correspondence of HVP with superior authorities and industrial firms concerning the A 4 guided missile from August 1943 to December 1944.    |

Roll 42  
1 Microfilm reel

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| Roll 42, Item FE 744 | Correspondence concerning the manufacture of fuel tanks and combustion units used in the "Rauchspurgeraet II" (an early type of guided missile).<br>[continued on Roll 55] |
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Roll 43

## 1 Microfilm reel

Roll 43, Item FE 749	This document is divided into two parts. The first part is a file of correspondence and contracts between RKM (Ministry for National Defense) and the AG fuer Industriegasverwertung (Joint Stock Company for Utilization of Industrial Waste Gases). The second part is a correspondence and contract file concerning the two inventors Nebel and Riedel.
Roll 43, Item FE 737	Technical correspondence on measuring devices.
Roll 44 1 Microfilm reel	
Roll 44, Item FE 834/A-G	[no title or subject provided]
Roll 44, Item FE 127	Patent application R 118 656 5-4-1944. Backfire proof semi-hypergole propellants
Roll 44, Item FE 126	Patent application R 118 655 5-4-1944. Semi-hypergole propellants.
Roll 44, Item FE 322/1	Lever of the steering device for Wasserfall.
Roll 44, Item FE 322/2	Program for investigation on vane motors and control units.
Roll 44, Item FE 322/3	Report on model investigation on steering control V 2 for missiles #1 and 2.
Roll 44, Item FE 815	Illustrated synopsis of A 4 terms. German-English.
Roll 44, Item FE 553	Fuel mixing and combustion: present-day state of research in the field of Diesel automotive engine systems.
Roll 44, Item FE 557	Tests on Riedel RBA S 10 gasoline driven self-starter.
Roll 44, Item FE 555	Investigations on small two cycle Otto-engines (tests of 10HP Riedel starters).
Roll 44, Item FE 556	Piston temperature study in automotive engines.
Roll 44, Item FE 750	(File of correspondence and memoranda).
Roll 44, Item FE 821	Characteristics and composition of the fuel component Optolin of the C-2 propellant combination mixed acid-Optolin.
Roll 44, Item FE 729E	Technical specifications for pyrocatechol fuels.

Roll 44, Item FE 738/5	Comparison of the performance of missiles "Enzian," "Schmetterling" and "Wasserfall."
Roll 44, Item FE 748	Reports on tests conducted on test stand III from June, 1940 to March, 1941. [continued on Roll 58]
Roll 45 1 Microfilm reel	
Roll 45, Item FE 779	Investigation on the suitability of German oils for incendiaries.
Roll 45, Item FE 827	Determination of the variation of force (with respect to time) from the penetration of armor plate by evaluating spark photographs and by a theoretical computation of the proceeding on the basis of the results of the evaluation.
Roll 45, Item FE 713	The photogrammetric flight tracking and points of burst in daylight.
Roll 45, Item FE 771	On the calculation of combination of modulation frequencies originated from many arbitrary frequencies on a grid with an arbitrary characteristic.
Roll 45, Item FE 717	Research on the propagation of metal waves with the help of the Schlieren-method.
Roll 45, Item FE 790	Frequency doubler.
Roll 45, Item FE 776/3	Data for the combustion tests with the propellant combination benzene-nitric acid in the A 4 combustion unit, at a pressure of 40 atm gage.
Roll 45, Item FE 781	Design notes on a turbo-pump assembly of steel construction.
Roll 45, Item FE 788	Guided bombs.
Roll 45, Item FE 776/2	Thermodynamical data on the propellant combination gas oil-nitric acid to be used in a A 4 test combustion unit, at a pressure of 40 atm gage.
Roll 45, Item FE 676/5	Correspondence on testing sheet iron for resistance against concentrated nitric acid and mixed acid.
Roll 45, Item FE 738/10	Series of reports on experiments concerning the emptying of a tank.
Roll 45, Item FE 777/1	Explosiveness of methyl nitrate in methyl alcohol.
Roll 45, Item FE 777/2	Chemical, physical and thermodynamical data on methyl nitrate in methyl alcohol.

Roll 45, Item FE 780	Components of pyrocatechol fuels.
Roll 45, Item FE 738/8	Standard fuel for new missile projects.
Roll 45, Item FE 692/G	Critical survey of pressure measuring devices by Claussen (Institute of Technology Hannover) and his paper on: "The measurement of static forces."
Roll 45, Item FE 676/3	Correspondence on corrosion tests made with crude pyrocatechol II and III on light metal and sheet steel.
Roll 45, Item FE 676/4	Report on tests of synthetic fabric "Pe Ce 108" (IG Farben code symbol) for resistance against crude pyrocatechol II and III.
Roll 45, Item FE 715	Production of photographs on silver coated paper by the anaglyphic process.
Roll 45, Item FE 778	Chemical, physical and thermodynamical data on methyl nitrate in methyl alcohol. [continued on Roll 48]
Roll 46 1 Microfilm reel	
Roll 46, Item FE 816	German/English and English/German glossary of electronics and related terms.
Roll 46, Item FE 794	Description and operation instructions for the decimeter transmitter DMG 5 K.
Roll 46, Item FE 364	Detail drawings to Manual A 4 (Series B).
Roll 46, Item FE 814	Lecture on the history of rocketry and the development of the A 4 (V2) and the A 4 testing station at Peenemuende. [January 1946]
Roll 46, Item FE 823	C-2 propellant tank capacity.
Roll 46, Item FE 819	Determination of admissible duration of open storage of the filled C-2 propellant tanks.
Roll 46, Item FE 739/3	Test reports and technical correspondence concerning compressed air tanks. (Nitrogen tanks).
Roll 46, Item FE 1	Operating directions for 3 ton truck (closed 305) "Testing Car II."
Roll 46, Item FE 812	Summary on steering machines.

Roll 46, Item FE 811	Summary on steering machines.
Roll 46, Item FE 810	Summary on steering machines.
Roll 46, Item FE 805	Giant Wuerzburg CGI and GL radar handbook, vol. I: General. [FuSE 65]
Roll 46, Item FE 807	Giant Wuerzburg CGI and GL radar handbook, vol. IV: Operational Instructions. [FuSE 65]
Roll 46, Item FE 817	The missile A 4 (structural assembly guide).
Roll 46, Item FE 762	Sighting devices for anti aircraft weapons.
Roll 46, Item FE 820	Suggestions concerning hypergole (self-ignitable) propellant combinations, structural improvements of the combustion unit and the venturi.
Roll 46, Item FE 822	Collection of materials. Chapter 7. The ignition.
Roll 46, Item FE 800	German radar set FuSE 64 (Mannheim), technical manual.
Roll 46, Item FE 801	Radar set FuSE 64, "Mannheim." Handbook. Book 2: Description of components.
Roll 46, Item FE 739/7	Development of diaphragms for missile "Wasserfall."
	Roll 47 1 Microfilm reel
Roll 47, Item FE 740H	File on technical communications. [continued from Roll 48]
Roll 47, Item FE 727/C	Correspondence on propulsive systems.
Roll 47, Item FE 746/a-c	Technical correspondence concerning the development of jets and rocket motors as carried out by HVP-Peenemuende. [continued on Roll 41]
	Roll 48 1 Microfilm reel
Roll 48, Item FE 778	Chemical, physical and thermodynamical data on methyl nitrate in methyl alcohol.

[continued from Roll 45]

Roll 48, Item FE 742	Armed forces literature review of foreign countries.
Roll 48, Item FE 741	Rocket research of USSR.
Roll 48, Item FE 734	Technical correspondence 1944-45 of the "Elektromechanische Werke" concerning the "Wasserfall" guided missile.
Roll 48, Item FE 731	Miscellaneous non-technical correspondence between 1944 and 1945.
Roll 48, Item FE 740A	File on technical communications.
Roll 48, Item FE 740B	File on technical communications.
Roll 48, Item FE 740C	File on technical communications.
Roll 48, Item FE 740D	File on technical communications.
Roll 48, Item FE 740E	File on technical communications.
Roll 48, Item FE 740F	File on technical communications.
Roll 48, Item FE 740G	File on technical communications.
Roll 48, Item FE 740H	File on technical communications. [continued on Roll 47]
	Roll 49 1 Microfilm reel
Roll 49, Item FE 773	Automatic pilot developed by Luftwaffe research center, Rechlin. [continued from Roll 55]
Roll 49, Item FE 754	Technical correspondence of the EW Karlshagen on the AA guided missile "Wasserfall."
Roll 49, Item FE 661	A 4 manual (Model B).
	Roll 50



1 Microfilm reel	
Roll 50, Item FE 728/B	Miscellaneous correspondence concerning the mass production of the A 4 missile from 1941-1943.
Roll 50, Item FE 728/D	Miscellaneous correspondence concerning fuel problems from 1941-1943.
Roll 50, Item FE 728/E	Miscellaneous correspondence concerning research work and development of guided missiles from 1941-1943.
Roll 50, Item FE 728/F	Miscellaneous technical correspondence of Wa Pruef II from 1941-1942.
Roll 50, Item FE 698/Q	Assurance of the demands on "Messina" telemetric devices for A 4 and C 2.
Roll 50, Item FE 700/F	Conference on transfer of personnel.
Roll 50, Item FE 738/4	Survey on the state of development and plans for development of AA-artillery.
Roll 50, Item FE 719	Data of various types of airplanes.
Roll 50, Item FE 699/Y	Conference on vane motors for A 4 b.
Roll 50, Item FE 662/G	Conference at DFS-Teisendorf on the subject AA-rocket "Wasserfall."
Roll 50, Item FE 699/C	Power supply and recording instruments for test stand "Wasserfall" on a ferry.
Roll 50, Item FE 729A	Production of compressed air tanks (AA missile "Wasserfall").
Roll 50, Item FE 738/9	Memorandum of discussion on materials for Wasserfall.
Roll 50, Item FE 729K	Problems concerning welding methods and materials for the construction of the AA missile "Wasserfall."
Roll 50, Item FE 698/F	Survey of dimensions, weights and estimates of work-hours for steering machines "Wasserfall."
Roll 50, Item FE 698/M	Acceptance of rocket "Wasserfall." [note: no blank space before document]

Roll 51

## 1 Microfilm reel

Roll 51, Item FE 747	File on test launching at "Greifswalder-Oie."
Roll 51, Item FE 846	[no title or subject provided]
Roll 52 1 Microfilm reel	
Roll 52, Item FE 830	Entstehungsgeschichte der FSP Peenemünde. Band II. [Developmental History of FSP Peenemünde, Volume II]
Roll 52, Item FE 833	Entstehungsgeschichte der Versuchsserienwerkes Peenemünde. Band V. 1943. [Developmental History of the Peenemünde experimental factory, Volume V, 1943.]
Roll 52, Item FE 839	Heeres-Versuchsstelle Peenemünde Bild-Nr. B465/42 BSM gKdos. 1942. [Top Secret photo file B465/42, 1942 (Army Experimental Station Peenemünde), pp.132+]
Roll 52, Item FE 848	Heimat Artillerie Park 11, Bild-Archiv, 1942. Geheim Kommandosache, Blatt 1+. [Top Secret photo file, 1942 (Homeland Artillery Park 11), pp.1+]

Roll 53  
1 Microfilm reel

Roll 53, Item FE 831	Entstehungsgeschichte der Festigungsstelle Peenemünde. Band III. 1941. [Developmental History of the Peenemünde production plant, Volume III., 1941.]
Roll 53, Item FE 832	[no title or subject provided]
Roll 53, Item [no number]	Unterlagen über Rohstoffbedarf, Halbzeugbedarf und Fertigungsverfahren des Gerätes A 4. [Documents relating to requirements of raw materials, semi-finished material requirement, and manufacturing method for the device A 4.]

Roll 54  
1 Microfilm reel

Roll 54, Item FE 846	Heeres-Versuchsstelle Peenemünde Bild-Nr. D3/40 BSM. [Photo file D3/40 (Army Experimental Station Peenemünde).]
Roll 54, Item FE 566	Examinations on the increase of revolutions per minute of the airplane engine BMW 801F.

Roll 54, Item FE 524	Investigations on increasing the RPM of aircraft engines at an altitude of 10 km (First report).
Roll 54, Item FE 523	Investigations on increasing the RPM of aircraft engines at an altitude of 10 km (Second report).
Roll 54, Item FE 802	Radar set FuSE 64, "Mannheim." Handbook. Book 2a: Part lists and circuit diagrams.
Roll 54, Item FE 809	Giant Wuerzburg GCL and GL radar, Handbook vol. II: High frequency unit.
Roll 54, Item FE 526	Study of the flow processes in the inlet manifold of DB 603 engine. First report (n=1000 rpm).
Roll 54, Item FE 796	Provisional short description and operating instruction for the airborne transceiver FuG 126.
Roll 54, Item FE 799	Handbook, Part A: Description of the German Freyn (limber type) EW radar, DT II/FMG 40b.
Roll 54, Item FE 845	Heeres-Versuchsstelle Peenemünde Bild-Nr. D47/40 BSM gKdos. 1940. [Top Secret photo file D47/40, 1940 (Army Experimental Station Peenemünde)]
	Roll 55 1 Microfilm reel
Roll 55, Item FE 744	Correspondence concerning the manufacture of fuel tanks and combustion units used in the "Rauchspurgeraet II" (an early type of guided missile). [continued from Roll 42]
Roll 55, Item FE 813	Two circuit control arrangements with Mu-chokes.
Roll 55, Item FE 698/A	Report on the production of aluminum foils.
Roll 55, Item FE 729L	Material for the construction of the AA missile "Wasserfall."
Roll 55, Item FE 697	Homing devices – electrical.
Roll 55, Item FE 745	Correspondence regarding contracts with Walter Company in Kiel and Zarges Company in Stuttgart.
Roll 55, Item FE 793	Aircraft construction code, part I: strength code for aircraft.
Roll 55, Item FE 773	Automatic pilot developed by Luftwaffe research center, Rechlin.

[continues on Roll 49]

Roll 56  
1 Microfilm reel

Roll 56, Item [unknown] [continued from separate roll; first part of document not identified]

Roll 56, Item FE 761 A 4 research reports #137-175.

Roll 56, Item FE 842 Heeres-Versuchsstelle Peenemünde Bild-Nr. D140/42 BSM. 1942.  
[Photo file D140/42 BSM, 1942 (Army Experimental Station Peenemünde)]

Roll 56, Item FE 843 Heeres-Versuchsstelle Peenemünde Bild-Nr. B411/42 BSM. 1942.  
[Photo file B411/42 BSM, 1942 (Army Experimental Station Peenemünde); pp.54+]

Roll 56, Item FE 844 Heeres-Versuchsstelle Peenemünde Bild-Nr. B5/42 BSM. 1942.  
[Photo file B5/42 BSM, 1942 (Army Experimental Station Peenemünde)]

Roll 56, Item FE 835 Heeres-Versuchsstelle Peenemünde Bild-Nr. A2/11. 1942.  
[Photo file A2/11, 1942 (Army Experimental Station Peenemünde)]

Roll 56, Item FE 836 Heeres-Versuchsstelle Peenemünde Bild-Nr. A1/4(14). 1940.  
[Photo file A1/4(14), 1940 (Army Experimental Station Peenemünde)]

Roll 56, Item FE 838 Heeres-Versuchsstelle Peenemünde Bild-Nr. B1/42 BSM. 1942.  
[Photo file B1/42, 1942 (Army Experimental Station Peenemünde)]

Roll 56, Item FE 837 Heeres-Versuchsstelle Peenemünde Bild-Nr. A1/L. 1941.  
[Photo file A1/L, 1941 (Army Experimental Station Peenemünde)]

Roll 57  
1 Microfilm reel

Roll 57, Item FE 752 File of correspondence between the HVP and different firms concerning hollow light metal castings.

Roll 58  
1 Microfilm reel

Roll 58, Item FE 748 Reports on tests conducted on test stand III from June, 1940 to March, 1941.  
[continued from Roll 44]

Roll 59  
1 Microfilm reel

Roll 59, Item FE 104 Description of equipment of cut-off ground installation.

Roll 59, Item FE 692/f	Technical correspondence.
Roll 59, Item FE 515	High frequency wattmeter and mis-matching indicator with direct indication.
Roll 59, Item FE 513	The preparation of electromagnetic waves.
Roll 59, Item FE 511	Special problems of remote control (steering, homing, etc.).
Roll 59, Item FE 514	Principles of design and calculation for low power transformers.
Roll 59, Item FE 501	Method of altitude direction finding, yielding definite results over the total direction finding range.
	Roll 60 1 Microfilm reel
Roll 60, Item FE 151	Fuel governing apparatus for combustion engines, especially jet engines.
Roll 60, Item FE 173	Application for a patent: "Automatic control of an electrical motor particularly for aircraft or rockets."
Roll 60, Item FE 330	Code names for missiles A 4 and "Wasserfall;" symbols of electrical equipment of A 4; explanation of code names used with the frequency doubler.
Roll 60, Item FE 299	Purpose of the automatically controlled homing device and state of development. [translation]
Roll 60, Item FE 56	Combined rubber and metal parts.
Roll 60, Item FE 143	Method for h-f transmission of steering control data for wireless remote steering control of craft.
Roll 60, Item FE 65/14	Supplement to the test report 600/190 (FE 65/15).
Roll 60, Item FE 65/15	Pressure distribution on the deflected horizontal vanes and on the base area of the model A 4 V 12e.
Roll 60, Item FE 351	Memorandum for the use of frequencies (A 4).
Roll 60, Item FE 334	Handbook on aircraft construction.
Roll 60, Item FE 193	Injector for liquid fuel propelled rockets.
Roll 60, Item FE 198	Liquid fuel driven rocket.

Roll 60, Item FE 323	Proposal for thrust control.
Roll 60, Item FE 324	Explanation of the wiring system if the mech. GM-Battery IIIa with relay-box (a) for launching of missiles with missile network 3.
Roll 60, Item FE 65/10	Report on drag and three component measurements on model glider A 4 V 13e.
Roll 60, Item FE 65/13	Six-component measurements on the fin-stabilized projectile A 4 V 12c.
Roll 60, Item FE 65/2	Report on the three component measurement with model glider A 4 V 12c.
	Roll 61 1 Microfilm reel also identified as "Roll 7-D"
Roll 61, Item FE 186	Procedure for the manufacture of liquid oxygen.
Roll 61, Item FE 301	Project of a small anti-aircraft rocket, type "Wasserfall."
Roll 61, Item FE 147	Patent application for a pressure reduction valve.
Roll 61, Item FE 316	Patent application R118 515, 4-20-1944. Propellants with nitroform as oxygen carrier.
Roll 61, Item FE 321	Ignition of monergole (single-system) propellants. Patent application R118 861 IVd/46g.
Roll 61, Item FE 450	FuG 101; electronic altimeter. Equipment manual.
Roll 61, Item FE 377	Hypergoles with nitric acid and Visol-amine fuel mixtures.
Roll 61, Item FE 452	The physical and technological fundamentals of a new development of gyro devices.
Roll 61, Item FE 379	Research on hypergole propellants. Appendix to previous reports: computation of data on various amine and vinyl ether fuels.
Roll 61, Item FE 375	Research on hypergole propellants. Hypergoles with nitric acid as oxygen carrier and organizc amines as fuels.
Roll 61, Item FE 374	Hypergole propellants with nitric acid as oxygen carrier. Partial report #6. Amine and vinyl ether fuels. (Part I).

Roll 61, Item FE 366/3	Correspondence of the Waffenamt (Army Ordnance Department). [part 3]
Roll 61, Item FE 366/4	Correspondence of the Waffenamt (Army Ordnance Department). [part 4]
	Roll 62 1 Microfilm reel also identified as "Roll 1-D"
Roll 62, Item FE 65/9	Part IV of report 600/171 – Roll moment measurements on the model glider A 4 V 12c.
Roll 62, Item FE 65/12	Continuation II – Hinge moments on the fins of the model glider A 4 V 12c with displaced vane axles.
Roll 62, Item FE 65/7	Part II of report 600/171 – Roll moments about the longitudinal axis of the model A 4 V 12c by oppositely deflected vertical vanes.
Roll 62, Item FE 65/3	Report on hinge moment measurements on the empennage V12 of the glider model A 4 with wings c.
Roll 62, Item FE 65/17	Three-component measurements on the fin-stabilized missile A 4 V 12c with deflected vertical vanes.
Roll 62, Item FE 65/18	Spin moment measurement on the fin-stabilized missile A 4 V 12c in lateral airflow.
Roll 62, Item FE 65/19	Investigations of air flow on the three-shouldered fin projectile A 4 V 12f.
Roll 62, Item FE 65/5	Hinge moment of the vertical vanes of the model glider A 4 V 12c.
Roll 62, Item FE 57	Receiving circuit for remote electrical transmission of measuring, indication and signal data.
Roll 62, Item FE 18	Table of nomenclatures of missile A 4.
Roll 62, Item FE 369	Preliminary examination of the high altitude fighter plane Fi 166.
Roll 62, Item FE 413	Data on the viscosity of propellant mixtures and of catalysed [sic] concentrated nitric acid.
Roll 62, Item FE 421	Kapitel II. Die Treibstoffe. [Chapter II. The Fuels]
Roll 62, Item FE 386	Report on tests on the oxygen tank to determine causes of the fractures at re-entry.

[filmed twice]

Roll 62, Item FE 383	Manufacturing schedule for the oxygen and alcohol tanks.
Roll 62, Item FE 388	Note concerning the internal pressure of the oxygen tank.
Roll 62, Item FE 387	Note concerning the emptying of the B-tank (alcohol) after combustion cut-off.
Roll 62, Item FE 412	Physical properties of propellant combinations.
Roll 62, Item FE 389	Combustion tests with new B-substances (alcohol). [note: no blank space before document]
Roll 62, Item FE 41	Direction finding receiver without lobe-switching.
Roll 62, Item FE 48	Gasoline jet-propulsion.
Roll 62, Item FE 49	Communication of the Reich Patent Office to Army Ordnance.
Roll 62, Item FE 27	Refusal of a patent on a method and device for differentiation and integration designed, in particular, for remote control of craft, bombs, missiles, and the like. [note: no blank space before document]
Roll 62, Item FE 133	A method for high frequency steering control of aircraft.
Roll 62, Item FE 33	Draft of a patent application. Lignin derivatives as dilutants of propellants.
Roll 62, Item FE 69	Method, circuit, and arrangement to obtain the deviation impulse with remote guide beam steering control (application for a patent and correspondence).
Roll 62, Item FE 134	A method for the release of signals transmitted by hf, e.g. in pilotless crafts. (Application for a patent).
Roll 62, Item FE 141	Method for h-f data transmission.
Roll 62, Item FE 113	Description and functioning of the data telemeter "Piccolo."
Roll 62, Item FE 53	A homing device using electro magnetic radiation, especially a heat responding homing device.
Roll 62, Item FE 45	Manufacture of tetranitro-carbazole.
Roll 62, Item FE 382	Note concerning fractures at the reentry of the missile into the atmosphere.
Roll 62, Item FE 385	Experiments performed for the reduction of the starting period of the main stage.



Roll 62, Item FE 247	Temporary specification for the delivery of the complete jet vane.
Roll 62, Item FE 242	Temporary specification for the manufacture of 11 liter tanks.
Roll 62, Item FE 498	On the effect of aluminum foils at different radar frequencies. DVL research report #1916.
Roll 62, Item FE 125	Textbook for the A 4 school.
	Roll 63 1 Microfilm reel also identified as "Roll 10-D"
Roll 63, Item FE 608	Investigations on infra red-sensitive radiation receivers.
Roll 63, Item FE 588	A contribution to the rate of climb indication.
Roll 63, Item FE 160	Fuel feeding device for rockets.
Roll 63, Item FE 199	The operating process of rockets. Patent #106/38 (R 101 989 I/44gg Rs)
Roll 63, Item FE 172	Patent application R 113 352. 7-3-1942. Device for generating steam by reaction of chemical substances.
Roll 63, Item FE 39	Electrical transmission by a resistance telemeter.
Roll 63, Item FE 107	The remote control engineer. Introduction into remote-control technique of missile A 4. Volume A: The combustion cut-off installation "C." Part I: The method.
Roll 63, Item FE 44	Draft of a patent application. Propellant combinations of solid carbon compounds and liquid oxygen carriers and visa versa.
Roll 63, Item FE 378	Hypergole propellants with nitric acid as oxygen carrier. Partial report #6. Amine and vinyl ether fuels. (Part 2).
Roll 63, Item FE 380	Properties of highly concentrated hydrogen peroxide and its behavior in the presence of catalysts. [note: no blank space before document]
Roll 63, Item FE 474	Glossary of A 4 terms in German.
Roll 63, Item FE 574A	Principal considerations on directional stability. Theoretical treatise.
Roll 63, Item FE 574B	The guidance into the standard straight path. Theoretical treatise. [note: no blank space before document]
Roll 63, Item FE 583	Dimensions of metal foils (for radar counter-measures).

Roll 63, Item FE 580	Part report: foil strips (counter radar).
Roll 63, Item FE 644	Inspection during manufacture of oxygen and alcohol tanks.
Roll 63, Item FE 643	Devices used in the manufacture of oxygen and fuel tanks. [note: no blank space before document]
Roll 63, Item FE 634	Natural frequencies and attenuations of coupled oscillatory elements.
Roll 63, Item FE 629	Devices for measurement of phase velocities and group velocities of high frequencies. [note: no blank space before document]
Roll 63, Item FE 612	Investigation on missile antennas, wave propagation, and ionization.
Roll 63, Item FE 615	Examinations of radio interferences.
Roll 63, Item FE 586	Small oscillograph of 24v. Description and direction for operation.
Roll 63, Item FE 581	Study on the law of deflection of pressure waves on a supercharger.
	Roll 64 1 Microfilm reel also identified as "Roll 21-D"
Roll 64, Item FE 512	Radio magazine "Radio Technical Review."
Roll 64, Item FE 498	On the effect of aluminum foils at different radar frequencies. DVL research report #1916.
Roll 64, Item FE 497	The loop-coupling of three-dimensional radiators. DVL research report #1381. [also identified as ARCH 201/19].
Roll 64, Item FE 494	Modulation of decimeter-wave transmitters. DVL research report #1248.
Roll 64, Item FE 493	Synchronization of pulse controlled transitions by means of phase regulation. [also identified as ARCH 201/244].
Roll 64, Item FE 492	"Instrument landing with an airplane excited by cable coupling." DVL research report #1156.
Roll 64, Item FE 491	Speed measurements utilizing the Doppler-effect of ultrashort waves.
Roll 64, Item FE 490	Metal lenses as centimeter-wave lenses. DVL research report #911/1.
Roll 64, Item FE 489	Basic research on frequency direction finding.

Roll 64, Item FE 488	Thermo-locating of aircraft. DVL research report #669.
Roll 64, Item FE 487	Radiation and reception experiments with multi-wound coupling loops on self-excited aircraft. DVL research report #643.
Roll 64, Item FE 489	Investigations on an electrical reflection altimeter for high altitudes.
Roll 64, Item FE 485	Special short wave receiver of DVB. Research report #629.
Roll 64, Item FE 484	General directions for replacing a fixed short-wave antenna by self-excitement of a plane. Research report #620.
Roll 64, Item FE 483	Development of a special short wave generator. DVL research report #599.
Roll 64, Item FE 482	Further experiments with self-excited aircraft. DVL research report #596.
Roll 64, Item FE 481	Homing course receiver, type C109. Research report #582.
Roll 64, Item FE 480	Report on the intermittent jet propulsion unit designed by Paul Schimdt.
Roll 64, Item FE 479	Experiments to make metal crafts, particularly planes emit and receive electro-magnetic waves. Research report #486.
Roll 64, Item FE 478	Experiments to excite cubic metal casing from inside so as to make them emit electro-magnetic waves.
Roll 64, Item FE 477	Tests on the application of very long waves for an airplane separation indicator for formation flying.
Roll 64, Item FE 476	Homing receiver Klein-ZE, type C 63/34. DVL research report #380.
Roll 64, Item FE 475	Interference measurements on long and ultra-short waves. DVL research report #355.
Roll 64, Item FE 469	Development of a reflection altimeter for great height. DVL research report #334.
Roll 64, Item FE 508	Group radiator array for ultra short waves.
Roll 64, Item FE 510	Directional transmitting or directional receiving system.
Roll 64, Item FE 507	Set-up to determine the direction of incidence, particularly of an electromagnetic wave (cathode-ray direction finder). [note: no blank space before document]
Roll 64, Item FE 506	A method to detect and locate objects in space reflecting electromagnetic energy.

Roll 64, Item FE 502	Method of blocking a receiver during pulse transmission in radar systems.
Roll 64, Item FE 473b	Forschungsbericht FB Nr.346/1. Untersuchung des Wirkungsgrades und der Betriebsbedingungen von Ultrakurzwellen-Sendern (107/108 Hz). [Research report FB Nr.346/1. Investigation of the efficiency and the operating conditions of very high frequency transmitters ( $10^7/10^8$ cycles per second).]
Roll 64, Item FE 473a	Investigation on the efficiency and operating conditions of ultra short wave transmitters (107....108 cycles). DVL research report #346/2.
	Roll 65 1 Microfilm reel also identified as "Roll 14-D"
Roll 65, Item FE 65/4	Report on three-component measurements on the glider models of A 4.
Roll 65, Item FE 65/20	Pressure distribution on the three-shoulder fin. 1st continuation.
Roll 65, Item FE 65/16	Report on pressure distribution over the V 13e fin of the A 4.
Roll 65, Item FE 65/10	Report on drag and three-component measurements on model glider A 4 V 13e.
Roll 65, Item FE 65/13	Six component measurements on the fin-stabilized projectile A 4 V 12c
Roll 65, Item FE 65/2	Report on the three-component measurement with model glider A 4 V 12c.
Roll 65, Item FE 578	Investigations on combustion gas jets flowing through cylindrical nozzles with particular respect to the rocket effect.
Roll 65, Item FE 304	Jet propulsion.
Roll 65, Item FE 306	Fuel-cooled combustion unit.
Roll 65, Item FE 200	Rocket (centrifugal force atomizer).
Roll 65, Item FE 305	Modification of propulsion unit.
Roll 65, Item FE 76	Detonator operated valves.
Roll 65, Item FE 86	Pressurizing of the fuel tank after combustion cut-off.
Roll 65, Item FE 572	Jato, Type B 8 (1000 kg), state of development as of December 1939.

Roll 65, Item FE 24	Code name nomenclature of missile A 4.
Roll 65, Item FE 366/6	Correspondence of the Waffenamt. (Army Ordnance Department). [part 6]
	Roll 66 1 Microfilm reel
Roll 66, Item FE 7	A 4 Pre-take off Wiring Systems (propulsion-unit with ground installation).
Roll 66, Item FE 6	Explanation of the wiring system of the mech. battery I.
Roll 66, Item FE 693	Evaluation of A 4 launching sites.
Roll 66, Item FE 79	Experiments on the instrument compartment #7 by applying external over-pressure (A 4 missile).
Roll 66, Item FE 643	Devices used in the manufacture of oxygen and fuel tanks.
Roll 66, Item FE 650	Guide beam procedure free from enemy interference.
Roll 66, Item FE 63b	Purpose, explanation and application of the graphic ballistics tables.
Roll 66, Item FE 196	Rocket propulsion, patent document # 301/39 (R 105 356 Ia/46 gg Rs).
Roll 66, Item FE 300	State of development of glider A 4b.
Roll 66, Item FE 178	Electrode-adjusting devices, especially for spot welding machines.
Roll 66, Item FE 12	Draft of a patent application. Propellants containing distillation and extraction products of lignite.
Roll 66, Item FE 573	Empirical and theoretical principles for the recalculation of combustion unit characteristics and text data (A 4).
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Roll 70, Item FE 545	On the "method of discontinuities" applied to harmonic analysis.
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