

22

1076

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
OFFICE OF SYNTHETIC LIQUID FUELS
RESEARCH AND DEVELOPMENT BRANCH
FOREIGN DOCUMENTS GROUP

List of Publications Received

in the Library of the
Foreign Documents Group
September 1, 1947 to August 31, 1948

LIST NO. 5

Compiled by
J. L. Wiley and H. C. Anderson

PREFACE

The first issue of the "List of Publications Received in the Library of the Foreign Synthetic Liquid Fuels Division...." covers the reports received in the Division prior to June 15, 1946. List No. 2 covers reports received from June 16 to September 30, 1946. List No. 3 covers reports received from October 1, 1946 to January 31, 1947. List No. 4 covers the reports received from January 31, 1947 to August 30, 1947. This issue, No. 5, covers the reports received in the Library of the Foreign Documents Group from September 1, 1947 to August 31, 1948. The reports are listed alphabetically by author under the issuing agency. Material of interest to the various branches of the Bureau of Mines is included, in addition to the reports relating to synthetic fuels.

The reports appearing in this list are available for reference only at the Bureau of Mines, Office of Synthetic Liquid Fuels, Research and Development Branch, Technical Reports Section, Foreign Documents Group, 4800 Forbes Street, Pittsburgh 13, Pa., daily except Saturdays, Sundays, and holidays, from 8:00 a.m. to 4:30 p.m. When requesting copies please specify author, title, and the Information Circular number of the report.

All the reports may be purchased from the Office of Technical Services, Department of Commerce, Washington 25, D. C. The author, title, and "PB" number, where it appears, should be given on every request for reports from the Office of Technical Services, who will furnish the cost of individual items on request.

The Office of Technical Services "PB" numbers, as well as other numbers under which the reports may have been issued, have been given wherever available. It should be borne in mind, however, that a report not having a "PB" number may have had one assigned since the list was compiled.

LIST OF PUBLICATIONS RECEIVED IN THE
FOREIGN DOCUMENTS GROUP LIBRARY

September 1, 1947 to August 31, 1948

LIST NO. 5

Reports issued by the
British Intelligence Objectives Sub-committee (B.I.O.S.)

(See also the listings of C.I.O.S.; F.I.A.T.; J.I.O.A.;
B.I.G.S.; F.I.A.T. Reels, and Miscellaneous Reports).

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
ADAMS, D.A.W.; HARRINGTON, T.; LIVINGSTONE, A.Y. I.G. Farbenindustrie - The sep- aration of ortho-, meta-, and para- xylenes and the manufacture of the de- rived nitroxylenes and xyloidines. 65 pp., diags. (BIOS Trip 2526). (PB 86,137)*.	1146	22
ALEXANDER, P. Industrial applications of ultrasonics: researches carried out at Siemens-Schuckertwerke, Berlin. (Date of investigations: August and September 1946). 28 pp., diags., illus. (BIOS Trip No. 2623). (PB 87,375).	1504	21, 22
ALLAN, D.; COCKS, L.V.; SUTCLIFFE, H.T. The production of synthetic fatty acids and their conversion into soaps and the properties of the products. (Dates of investigation: May 20 to June 6, 1947). 35 pp., incl. diags., illus. (PB 91,672)..	1560	22

* Reports having "PB" numbers may be purchased from the Office
of Technical Services, Department of Commerce, Washington 25,
D. C., under that number.

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
BARAGWANATH, G.E.; FINLAYSON, W.H. Brown coal dust; preparation, handling and utilisation. May 1947. 205 pp., diags., illus. (BIOS Trip 2663). (PB 187,383).	1445	30
BELCHER, R.; PHILLIPS, D.F. Progress in micro-chemistry in Germany. Dates of investigation: May 14-June 11, 1947. 54 pp., incl. diags. (PB 92,193).	1606	22
BICKERDIKE, R.L.; DANIELS, N.H.G. Some aspects of German powder metallurgy. 40 pp., illus. (PB 87,784).	78	21
BIRCH, S.F.; WITHERS, J.G.; NARRACOTT, E.S.; HABESHAW, J. Miscellaneous information on fuels, detergents and lubricants. March 13-April 22, 1946. 160 pp., incl. diags. (BIOS Trip No. 1981). (PB 91,685).	1646	30
BLACKMORE, R.L.; CASH, W.E.; CHADWICK, E.; CLARK, G.C.H.; POWELL, H.S.W.; RODWAY, L.W. Solvents and plasticizers in Germany plasticizers section. 1946. 137 pp., incl. diags., illus. (PB 91,688).	1651	22
BLACKMORE, R.L.; CASH, W.E.; CHADWICK, E.; CLARK, G.C.H.; POWELL, H.S.W.; RODWAY, L.W. Solvents and plasticizers in Germany solvents section. 1946. 65 pp., incl. diags., illus. (PB 91,689).	1652	22
BLAYLOCK, P.W.; ANDERSON, A.H. Ethylene from acetylene by hydrogenation. (Process used at Anorgana Works, Gendorf, Bavaria). Nov. 1945. (BIOS Trip No. 1460). (PB 86,146).	1411	22

<u>Author and Title</u>	B.I.O.S.	
	<u>Final Report Number</u>	<u>Item Number</u>
BLAYLOCK, P.W.; ANDERSON, A.H. Precautions in high pressure acetylene work. (Translations of reports on experimental work carried out by the I. G. Farbenindustrie and the Chemische Reichanstalt (C.T.R.) on the decomposition of acetylene under different pressures). 32 pp., incl. diags. (PB 91,664).	1162	22
BLAYLOCK, P.W.; ANDERSON, A.H. Vinyl acetate vapour phase process. (Information obtained from Alexander Wacker Werke, Burghausen and I. G. Farbenindustrie, Hoechst, Nov. 1945). 10 pp., 5 diags. (BIOS Trip 1460). (PB 80,403).	1412	22
BLUNDELL, L.W.; POTTER, F.M. Lothringen Bergbau A.G., Bochum Gerthe-Schaft No. 1. Pitch Coking. Date of visit: Jan. 14, 1946. 5 pp., diags. (BIOS Trip No. 1634). (PB 60,907).	936	30
BONDY, H.F.; FUIDGE, G.H. Krupp-Lurgi low-temperature carbonisation plant at Krupp Treibstoffwerke, Wanne-Eickel. 4 pp., diags. Date of visit: Jan. 17, 1946. (PB 158,253).	817	30
BOOTH, N. The separation of methane and ethylene from coal gas. April 1946. 23 pp. (PB 92,197).	985	30
BRAZIER, S.A.; DYCHE-TEAGUE, F.C.; PIERCE, I.T.; EVERETT, R.M.; KAISER, A. German chlorinated rubber. Dates of investigation: April 28-May 20, 1947. 52 pp. (PB 91,681).	1626	22
BRUNDRIT, D. German acetylene chemical industry - ethyl acetate. Oct. 7, 1947. 17 pp., diags. (PB 91,675).	1604	22

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
BRUNDRIT, D. German acetylene chemical industry - methyl vinyl ether. April 10, 1947. 13 pp., one diagr. (BIOS Trip No. 1919). (PB 79,582).	1292	22
BRUNDRIT, D. German acetylene chemical industry - monovinyl acetylene. April 10, 1947. 8 pp., one diagr. (BIOS Trip No. 1919). (PB 79,306).	1293	22
BRUNDRIT, D. German acetylene chemical industry - vinyl chloride. March 17, 1947. 24 pp., diags. (BIOS Trip 1919). (PB 79,233).	1290	22
BRUNDRIT, D.; HUNTER, W. German acetylene chemical industry - acrylonitrile manufacture and possible uses. (Plants visited between April 11 and May 3, 1946). 26 pp., diags. (PB L78,203).	1057	22, 30
BRUNDRIT, D.; TAYLOR, A.W.C. German acetylene chemical industry - chlorinated solvents. Jan. 15, 1947. 61 pp., diags. (BIOS Trip No. 1919). (PB No. 79,317).	1056	22
BRUNDRIT, D.; TAYLOR, A.W.C. German acetylene chemical industry - vinyl acetate monomer. March 17, 1947. 38 pp., diags. (BIOS Trip No. 1919). (PB No. 80,576).	1291	22
BRUNDRIT, D.; TAYLOR, A.W.C.; ELLIS, J.F. German acetylene chemical industry - acetaldehyde manufacture. (Visits to various plants made between March 18-May 13, 1946). 100 pp., diags. (BIOS Trip No. 1919). (PB 79,186).	1049	22
BUDGEN, H.P. German methods of excavation and briquetting brown coal. 1945. 160 pp., incl. diags., illus. (PB 91,653).	703	30

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
CALDWELL, J.M.; SMITH, G.H. Mersol and hostapon processes - I.G. Farbenindustrie, Höchst. Date of visit: Oct. 9, 1946. 9 pp., diags., illus. (PB 79,310).	1222	30
CALDWELL, J.M.; SMITH, G.H. Wurttemberg shale fields. Oct. 1-5, 1946. 16 pp., diags. (BIOS Trip No. 2409). (PB 181,610).	1221	30
CARTER, W.J.; CAMPBELL, G.R.; GRAY, J.J.; SELICK, H.; WENTWORTH, G.E. Manufacture of sulphur acid. Report on the examination of certain German vanadium contact catalysts. 77 pp., incl. diags., illus. (PB 91,680).	1623	22
CARTER, W.J.; HOWICK, M.A.; BURSTON, J.R.; EAGERS, R.Y.; CROOKS, A.B. German fluorine and fluoride industry. 146 pp., incl. diags., illus. BIOS Trip No. 2258. (PB 92,210).	1595	22
CHILTON, L.V.; TOPP, N.E. Production of Mersol products at I. G. Farbenfabrik, Wolfen. (Plant visited on March 23, 1946). 7 pp. (BIOS Trip No. 1901). (PB 79,230).	1305	22
CLARK, A.M. Large scale production of oxygen and atmospheric gases. 21 pp., diags. (PB 41,229).	591	30
CLOUGH, H.; LEFTON, C.; LLOYD, R.; MATHER, E.; PRICE, H.I.; WILSON, D.; ADAMS, D.A.W.; MAY, R.; MILNER, D.W. Synthetic phenol, salicylic acid and developments in intermediates. Interrogation of Dr. Boehme of I.G. Leverkusen. August 1, 1946. 11 pp. (PB 79,314).	1246	22, 30

Author and Title	B.I.O.S. Final Report Number	Item Number
DAVISON, E.M.; MAYS, E.L. German fibrous and scientific glass industry. Dates of investigation: April 22-May 16, 1947. 24 pp. (PB 91,696).	1664	22
DENNIS, N. German acetylene chemical industry. Generation of acetylene from carbide. Sept. 1947. 60 pp., incl. diags. (BIOS Trip No. 1919). (PB 92,196).	1047	22
DENNIS, N. German acetylene chemical industry. Manufacture of ethylene oxide, ethylene glycols and ethanolamines. June 20, 1947. 55 pp., diags., illus. (PB 86,134).	1059	22, 30
DENNIS, N. German carbide and cyanamide industry. Manufacture of calcium cyanamide. April 30, 1947. 25 pp., diags., illus. (BIOS Trip 1919). (PB 80,371).	1046	22
DENNIS, N.; ELLIS, J.F.; TAYLOR, A.W.C. German acetylene chemical industry. Acetylene and synthesis gas from hydrocarbons. April 30, 1947. (Deals, in the main, with the <u>arc cracking process</u> and the <u>partial combustion of methane in oxygen</u> . 63 pp., incl. diags., illus. (PB 187,893).	1048	22
DENNIS, N.; TAYLOR, A.W.C. German acetylene chemical industry - ethylene from acetylene, coke-oven gas and ethane. Jan. 4, 1947. 96 pp., diags., illus. (BIOS Trip No. 1919). (PB No. 79,298).	1058	22, 30

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
DICKIE, R.K. The Bentheim gas field (history and present status as a source of natural gas). Dec. 1945. 19 pp., diags., tables. (PB L77,706).	380	30
EDWARDS, W.A.M. and CLAYTON, J.H. Deutsche Gold und Silber Scheide Anstalt (Degussa)--Frankfurt. (Report on or- ganization, research activities and production of sodium cyanide, sodamide and potassium ethyl xanthate.) 50 pp., diags. (PB 34,028).	423	22
ELLIS, J.F. Engineering in hydrogenation plants in Germany. 152 pp., diags., illus. (BIOS Trip No. 1919). (PB 80,349).	977	30, 31
ELLIS, J.F. German acetylene chemical industry - construction details of Linde plants. Dec. 6, 1946. 54 pp., diags., illus. (BIOS Trip No. 1919). (PB 79,192).	1061	22, 31
FELTON, J.R.; FRAZIER, E.H.; WINSTANLEY, M.B.E.; ROBERTS, H.C.W.; CRAWFORD, R.; CROOK, A.E. Report on the safety aspects of mining methods and the training of mining personnel in Germany and Holland. Date of visit: Sept. 18-Oct. 6, 1945. (18 mines were visited--12 in Germany and 6 in Holland--underground inspections made at 14 of these). 330 pp., incl. diags. and illus. (BIOS Trip No. 806A and 806B). (PB 92,199).	1607	30
FELTON, J.R.; FRAZER, E.H.; WINSTANLEY, M.B.E.; ROBERTS, H.C.W.; CRAWFORD, R.; CROOK, A.E. Supplement to re- port on the safety aspects of mining methods and the training of mining personnel in Germany and Holland. 26 figs. (PB 92,199-S).	1607 (Supplement)	30

1085

<u>Author and Title</u>	B.I.O.S.	
	<u>Final Report Number</u>	<u>Item Number</u>
FISHWICK, E.A.; KEKWICK, L.O.; LANNING, H.J. Zinc oxide manufacture in Germany. Oct. 1946. 168 pp., diags., illus. (BIOS Trip 2517). (PB 86,152).	1401	22
GAVIN, M.R.; CAPPER, J.F.; DUNSTALL, W.J.W.; SPANSWICK, J.R. High frequency heating. June 1946. (Survey of activities in the field of high frequency heating of the German industry. Deals chiefly with work at radio frequencies and is not concerned with the use of rotating machines.) 32 pp. (PB 75,851).	866	1, 7, 9
GEDDES, Alexander C. Investigation of the manufacture of diesel engines made by Klockner-Humboldt-Deutz, A.G., with a view to setting up the manufacture of these engines in this country. 11 pp., 3 illus. (BIOS Trip 2674). (PB 86,158).	1378	31
GOLDBLATT, M.W.; WAGSTAFF, V.A.J. Aspects of industrial medicine and hygiene in German chemical factories. 79 pp. (PB 86,145).	1501	24
GREAT BRITAIN <u>Ministry of Fuel and Power</u> , British Intelligence Objectives Subcommittee. Technical Report on the Ruhr Coalfield. VOLUME III, Appendix No. 1. (1948). Problems of increasing coal output. 11 pp., incl. diags., illus. (PB 32,160).	394	
——— VOLUME III, Appendix No. 8. (1947). A study of efforts to increase face outputs. 10 pp., 28 figs. (PB 32,160).	394	

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
VOLUME III, Appendix No. 12. (1947). Modern machines for coal extraction. 4 pp., 14 illus. (PB 32,160).	394	
VOLUME III, Appendix No. 13a. (1947). A rotary rock tunnelling machine. 4 pp., 2 illus., 4 figs., 2 fold. diags. (PB 32,160).	394	
VOLUME III, Appendix No. 16. (1947). Economic comparisons between the various types of underground locomotives. 13 pp., incl. 5 figs., 12 tables. (PB 32,160).	394	
VOLUME III, Appendix No. 18. (1947). The use of large mine cars in the Ruhr. 22 pp., incl. 23 tables, 16 figs., one illus. (PB 32,160).	394	
VOLUME III, Appendix No. 21. (1947). The three-cylinder steam winding engine. 8 pp., incl. 9 figs. (PB 32,160).	394	
VOLUME III, Appendix No. 25. (1947). Germania mine-central shaft. 5 fold. diags. (PB 32,160).	394	
VOLUME III, Appendix No. 26. (1947). The efficient utilisation of shaft space. 9 pp., 36 tables, 48 figs. (PB 32,160).	394	
VOLUME III, Appendix No. 27. (1947). Utilisation of low grade fuels in steam generating plants. 8 pp., incl. diags., illus. (PB 32,160).	394	

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
VOLUME III, Appendix No. 29 (1947). The advantages of permanent coal face and roadway lighting. 6 pp., 16 tables. (PB 32,160).	394	
VOLUME III, Appendix No. 30 (1948). Production statistics for mines in flat, medium and steep formations. 29 pp. (PB 32,160).	394	
<u>GREAT BRITAIN Ministry of Fuel and Power.</u> Synthetic oil production in Germany. Interrogation of Dr. Bütetisch. Jan. 1946. 26 pp., incl. tables. (PB 92,191).	1697	30
GUNTHER, Major A.E. Oil fields investiga- tion. The war development of the German crude oil industry. 1939-1945. PART I. North west German crude oil industry exploration (Reichsbohrungen and private) wells. 146 pp., incl. diagrammatic sections. (PB 91,655).	1010	30
GUNTHER, Major A.E. Oil fields investiga- tion. The war development of the German crude oil industry 1939-1945. PART II. Section I. German oil in- dustry exploration. 139 pp., incl. diagr., maps, tables. (PB 91,656).	1011	30
GUNTHER, Major A.E. Oil fields investiga- tion. PART II. Section II. German oil industry exploration structures. 1939-1945. 117 pp., incl. diagr., maps. (PB 91,657).	1012	30
GUNTHER, Major A.E. Oil fields investiga- tion. The war development of the German crude oil industry 1939-1945. PART III. Section I. German oil in- dustry development and exploitation of oil fields. 70 pp., incl. maps, diagr., tables. (PB 91,658).	1013	30

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
GUNTHER, Major A.E. Oil fields investigation. PART III. Section II. German oil industry development and exploitation of oil fields 1939-1945. 81 pp., incl. maps, diags. (PB 91,659).	1014	30
GUNTHER, Major A.E. Oil fields investigation. PART III. Section III. German oil industry oil production statistics and analyses. 1933-1945. 63 pp. (PB 91,660).	1015	30
GUNTHER, Major A.E. Oil fields investigation. PART IV. Section I. The war structure of the German crude oil industry 1934-1945. 84 pp., incl. maps, diags. (PB 91,661).	1016	30
GUNTHER, Major A.E. Oil fields investigation. PART IV. Section II. The war structure of the German crude oil industry 1934-1945. Private industry. 135 pp., incl. maps., diags., tables. (PB 91,662).	1017	30
HALL, C.C.; CRAWFORD, S.R.; GALL, D.; SMITH, S.L. Medium pressure synthesis with iron fixed-bed catalysts, and operation of the Fischer-Tropsch synthesis in the liquid phase. Interrogation of Dr. H. Kolbel. December 5, 1947.-- (Report of interview at Fuel Research Station). 7 pp., incl. one fig. (PB 91,925).	1712	30
HARPER, F.C.; FINCHAM, C.A.; WILLIAMS, H.N.S. The use in Germany of waterproofing and other additions to mortar and concrete. 14 pp. (PB 91,695).	1663	22

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
HARRISON, C.F.R.; MEDLOCK, R.S. Control instruments in the German chemical industry. (Visits to various plants made between May 3 to May 22, 1946). 82 pp., diags. (BIOS Trip 2082). (PB 79,431).	1321	31
HILL, A. Manufacture of p:p'-Diaminodicyclohexyl methane (Dicykan). (Date of investigation: Oct. 11-Nov. 29, 1946). 4 pp., 1 diag. (BIOS Trip No. 2788). (PB 78,239).	1241	22
HEPPENSTALL, F.; WENTWORTH, G.E. Manufacture of sulphuric acid. A.G. des Altenbergs für Bergbau und Zinkhüttenbetrieb, Essen-Bergeborbeck. 8 pp., incl. one diag. (PB 91,682).	1639	22
HOUSEMAN, C.R. Production of krypton-xenon mixture. 4 pp. (BIOS Trip No. 2207).	673	22
HOWES, D.A.; THOMAS, W.H. I.G. Farbenindustrie A.G., Ludwigshafen. (Fuels and lubricants). July 27-Aug. 2, 1945. 140 pp., diags., tables. (PB 23,856).	373	30
HUNTER, C. Polymerisation of ethylene in Germany: with special reference to high pressure design and techniques. 24 pp., incl. diags. (PB 92,208).	1706	22
HUNTER, W. German acetylene chemical industry - acetic acid. Aug. 25, 1947. 44 pp., incl. diags. (PB 187,918).	1052	22
HUNTER, W. German acetylene chemical industry. Butadiene. Feb. 28, 1947. 55 pp., diags. (BIOS Trip 1919).	1060	22

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
HUNTER, W. German acetylene chemical industry. Manufacture of acetic anhydride. 102 pp., diags. (Various plants visited March 19-May 14, 1946). (BIOS Trip.No. 1919). (PB 78,240).	1050	22
HUNTER, W. German acetylene chemical industry - miscellaneous organic chemicals. Oct. 13, 1947. 282 pp., incl. diags. (PB 91,663).	1053	22
HUNTER, W. Manufacture of monomeric styrene at I.G. Ludwigshafen. (Information given in this report supplied by Dr. Ohlinger). 8 pp., one diagr. (PB 47,721).	750	22
HUNTER, W.; TAYLOR, A.C.W. Germany acetylene chemical industry. Miscellaneous research items--I.G. Farbenindustrie. Sept. 18, 1947. 73 pp., incl. diags. (PB L87,924)..	1558	22
IRVINE, F.H.; HALL, W.K.; GILLIES, A.; MANNING, J.; MOULTON, P.P.; SMITH, W. The German synthetic ammonia industry in the western zones. Aug. 16-Sept. 19, 1946. 103 pp., incl. diags.; illus. (PB L87,891).	1441	22
IRVINE, F.H.; HALL, W.K.; MANNING, J.; GILLIES, A.; MOULTON, P.P.; SMITH, W. The German nitrogenous fertiliser industry (excluding cyanamide) in the western zones. Aug. 16-Sept. 27, 1946. 170 pp., incl. diags., illus. (PB L87;890).	1443	22
IRVINE, F.H.; HALL, W.K.; MOULTON, P.P.; SMITH, W.; GILLIES, A.; MANNING, J. The German nitric acid industry in the western zones. Aug. 16-Sept. 30, 1946. 139 pp., incl. diags.; illus. (PB L87,889).	1442	22

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
KAY, H.; LEIGH, F.S.; PRIEST, R.; SOWARD, H.W. The design of industrial furnaces in Germany. (British Zone). 300 pp., incl. diags. (BIOS Trip 2440. (PB 92,201).	1601	31
KENWORTHY, V.; DELL, F.R. Embsen nitric acid factory. I.G. Farbenindustrie. 24 pp., diags. (BIOS Trip 1491). (PB 78,211).	1232	22, 31
KING, H.R.; QUICK, B.J. Investigation of the slinging stowing machine in coal mines in the Ruhr District of Germany. 14 pp., 12 diags. (PB 80,410).	1439	30, 31
KUSTERS, N.J. P.J. Kipp en Zonen. Products made: scientific instruments. 2 pp. (PB 78,202).	415	27
KUSTERS, N.L. The Ott differential analyser. 3 pp., illus., diags. (PB 78,198).	412	9, 27
LAMONT, F.G.; GOLDSCHMIDT, P.; MERLUB-SOBEL, M. The winning and refining of potash minerals in the western zones of Germany. PART II. Refining section. 160 pp., diags., illus. (PB 91,679).	1616	22
LAWRENCE, J.; PEACOCK, R.B.; LEFEUVRE, C.W. Henkel, Dusseldorf. Sodium perborate and sodium percarbonate. February 1946. 26 pp., diags. (BIOS Trip 1724). (PB 79,444).	1367	22
LITTLEJOHN, W. German carbon industry. 1945. 93 pp. (BIOS Trip 910). (PB 78,205).	1181	9, 22
LOVELESS, A.H. The production of carbon black from carbon monoxide. (Interro- gation of Dr. Kloeppfer and Dr. Barth). 7 pp. (BIOS Trip 2326). (PB 81,088).	1399	22

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
LOVELESS, A.H. Production of liquid sulphur dioxide at I.G. Farben Fabrik, Wolfen. Date of visit: March 12-April 3, 1946. 13 pp., diagr. (PB 52,866).	863	22
LOVELESS, A.H.; BOTTOMLEY, J.K. The manufacture of technical phosphates in western Germany. (Investigation took place between Sept. 30 and Oct. 26, 1946). (Continuation of BIOS Report 256). 55 pp., diagrs. (BIOS Trip 2326). (PB 85,685).	1557	22
MADEL, W.R.; HEDLEY, J.A.J.; LAYFIELD, J.W.; WILSON, C.; WOODARD, T.E.; YOUNGMAN. The layout of chemical factories. 167 pp., diagrs., illus. (BIOS Trip 2309). (PB 85,595).	1470	22
MARSH, F.S.; KIRK, H.S.; WRAGG, A. Gas containers and pressure vessels. Feb. 1946. 82 pp., diagrs., illus. (BIOS Trip 1916). (PB 79,183).	1238	21, 31
MARTIN, J.J.; PARTINGTON, N.; PEARSON, S. Manufacture of carbon bisulphide in Germany, with notes on sulphur recovery and thio-urea. Dates of investigation: Sept. 19-Oct. 12, 1946. 47 pp., incl. diagrs. (BIOS Trip 2525). (PB 92,188).	1702	22
MATTHEWS, L.A. Acetylene by the arc. Also the OXO synthesis at Ruhrchemie, Holten. (BIOS Trip 1124). (PB 52,880).	747	22
MATTHEWS, M.A. Manufacture of crotonaldehyde and crotonic acid at I.G. Hoechst. 5 pp. (Interrogation of Dr. Moller on Sept. 22, 1945). (BIOS Trip 1124). (PB 49,984).	758	22

<u>Author and Title</u>	B.I.O.S.	
	<u>Final Report Number</u>	<u>Item Number</u>
MATTHEWS, M.A. Oxidation of hydrocarbons to ethylene and of methane to acetylene, with conversion of acetylene to acetone. I.G. Oppau. Sept. 28, 1945. 7 pp., diags. (BIOS Trip 1124). (PB 52,854).	877	22, 30
MORLEY, R.J. The Wintershall-Schmalfeldt Process for the manufacture of synthesis gas at Lutzkendorf. (Wintershall A.G. plant visited on May 9-11, 1945). 33 pp., diags., illus. (PB 78,242).	1142	30
MURRAY, C.A. Jnr. Rütgerswerke A.G. Rauxel. Sept. 26-Oct. 12, 1945. 17 pp. (Report on inspection of tar distillery of Rütgerswerke A.G. Rauxel). (BIOS Trip 1124). (PB 51,066).	660	30
NICHOLSON, A.C.; WENTWORTH, G.E. Manufacture of sulphuric acid. Die Gaswerke Frankfurt A.M. Date of visit: June 26, 1946. 6 pp., incl. one diagr. (PB 91,684).	1645	22
OGDEN, G. Cyanide research and production at Degussa. (Interrogation of Dr. Baerwind at Beltane School, Wimbledon). Sept. 10, 1946. 4 pp. (PB 34,028).	423 Appendix	22
PAYNE, H.R.; WOODS, R.J. Some aspects of safety organisation in the German chemical industry. 74 pp., diags., illus. (BIOS Trip 2457B). (PB 86,150).	1502	24
PERRY, G.H.; CADMAN, W.H.; KOPPEL, L. and others. Investigation into manufacture and use of carbon blacks and lamp blacks in Germany. 118 pp., diags., illus., tables. (BIOS TRIP 1707). (PB 46,388).	572	22

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
POSTLETHWAITE, J.P.; BARDGETT, H.; BONDY, H.F. Inspection of Krupp- Lurgi low temperature carbonisation plants. May 7, 8, and 9, 1946. 38 pp., diags. (BIOS Trip 2153). (PB L46,390).	616	30
POSTLETHWAITE, J.P.; BONDY, H.F. Lurgi Gesellschaft für Warmetechnik. 14 pp., diags. Date of visit: May 18 and 19, 1946. (BIOS Trip 2153). (PB A46,391).	623	30
RICHARDS, J.C. Iron Powder - Notes on German production methods at Düsseldorfer Eisenhüttengesell- schaft, and Deutsche Eisenwerke. April 25, 1946. 19 pp., one diag., one illus. (BIOS Trip 1960). (PB 63,610).	860	21
SAYER, L.J. Electron microscopy in Germany. 51 pp. (BIOS Trip 2474). (PB 92,194).	1671	9
SCOTT, W.D.; MACMAHON, L.C.; TASKER, G.J.H. Phthalic anhydride manu- facture in Germany. August 1946. 69 pp., incl. diags., illus. (PB 87,906).	1597	22
SNOW, C.A.; HORROBIN, S. Chemical lab- oratory instrumentation in Germany. (This report continuation of BIOS Final Report 736). 124 pp., diags., illus. (BIOS Trip 2714). (PB 85,602).	1487	9
THOMAS, W.H.; WITHERS, J.G. Dourag - Nerag. Gewerkschaft, Deutsche Erdöl Raffinerie und Neue Erdöl Raffinerie. Fuels and lubricants. Oct. 11-22, 1945. 30 pp., diags. (BIOS Trip 1248). (PB 41,244).	639	30

<u>Author and Title</u>	<u>B.I.O.S. Final Report Number</u>	<u>Item Number</u>
THOMAS, W.H.; WITHERS, J.G. Deutsche Erdöl A.G., Hamburg, Germany. Crude oil and products. Oct. 3-22, 1945. 13 pp. (BIOS Trip 1248). (PB 41,243).	638	30
THOMAS, H.L.; WENTWORTH, G.E. Manufacture of sulphuric acid. Die-Dynamit A.G. Vormals A. Nobel & Co., Krummel Geesthacht. Date of visit: June 19-20, 1946. 12 pp., incl. diagr. (PB 91,683).	1643	22
TOPP, N.E. The manufacture of chlorates and perchlorates at Bitterfeld. (Chlorate plant at Bitterfeld was inspected on March 18, 1946). 31 pp., diagrs. (BIOS Trip 1901). (PB 77,712).	1200	22
VERO, E.; HARRISON, C.F.R. The manufacture of hydrazine hydrate in Germany. 23 pp., incl. diagrs., illus. (PB 91,701).	1682	22
VIGERS, B.E.A.; WOOD, W.S.; HICKSON, G. Hydrogen peroxide - production of 80/85 per cent solutions. 151 pp., illus., tables, diagrs. Date of investigation: Sept. 3-10, 1945. (BIOS Trip No. 1080). (PB 80,350).	599	22
VINCENT, J.W. Aspects of the synthetic fatty acid and synthetic fat industries in Germany. July 8, 1946. 99 pp., diagrs. (BIOS Trip 2199). (PB 49,196).	805	22
WAUCHOPE, G.A.; BARTON, G.W.; HARMAN, F. Preliminary survey of the German pump industry. PART III. Centrifugal axial flow, self-priming, and reciprocating pumps, etc. Date of investigation: Feb. 27 and 28, 1946, and March 1, 1946. 24 pp., diagrs. (PB 91,667).	1188	31

<u>Author and Title</u>	B.I.O.S.	
	<u>Final Report Number</u>	<u>Item Number</u>
WILKINS, E.T. Survey of coal preparation in the Ruhr. 27 pp., diags. (PB 91,678).	1613	30
WOLSTENHOLME, W.; FRAY, A.; NICKELS, K. I.G. Farbenindustrie, A.G., Ludwigshafen, Leverkusen and Elberfeld. <u>Formaldehyde and hexamethylene-tetramine.</u> (Visits to Ludwigshafen, Leverkusen, and Elberfeld made on July 9 and 10, July 17 and July 18, 1946, respectively). 10 pp., diags. (BIOS Trip 2348). (PB 79,300).	1331	22
WOOD, F.W. The winning and refining of potash minerals in the western zones of Germany - mining section. Oct. 1946. 105 pp., illus., diags. (BIOS Trip 2313). (PB 86,135).	1400	22, 31
WOOD, W.S. Hydrogen peroxide - summary of investigations carried out at Leverkusen on synthetic methods. I.G. Farbenindustrie. 31 pp. (BIOS Trip 1080). (PB 81,093).	1414	22
YOUNG, H.E.B.; BINKS, S.C.H.; HUNTER, W. Methyl chloride production at I.G. Farben, Hoechst. Oct. 20, 1947. (Date of visit: Jan. 16-24, 1947). 10 pp., incl. two diags. (PB 91,694).	1662	22

<u>Author and Title</u>	B.I.O.S. <u>Interrogation Report No.</u>
DREWITT, J.G.N. Interrogation of Dr. Ronald Richter at Spedan Towers, Hempstead on Feb. 17, 1947. Main interest: Activation of catalysts. 2 pp. (PB 79,630).	455

<u>Author and Title</u>	<u>B.I.O.S. Miscellaneous Report No.</u>
HEADQUARTERS THEATRE SERVICE FORCES, EUROPEAN THEATRE OFFICE OF THE CHIEF QUARTERMASTER. The German magnesium industry. 100 pp.	5
HOYT, L.F. Organic compounds of fluorine. September 1945. 6 pp.	14
OPPELT, Walter H. Refining of light oil from coal gas. 19 pp., incl. one diagr.	63
SHEELY, M.L. The German soap industry. September 1945. 61 pp.	25
SHEELY, M.L. Glycerogen -- a substitute for glycerine. Sept. 1945. 21 pp., incl. two diagrs. (PB 91,708).	23
SHEELY, M.L. Production of synthetic fatty acids. Sept. 1945. 31 pp. (cf. OPB Rept. 2422).	26
SHEELY, M.L. Synthetic glycerine. I.G. Farbenindustrie, Oppau, Germany. Sept. 1945. 8 pp., incl. one diagr. (PB 91,709).	24
U.S. NAVAL TECHNICAL MISSION IN EUROPE. German diesel fuels. 30 pp., incl. diagrs. August 1945. (Technical report No. 187-45). (PB 1,675 and 2,529).	71
U.S. NAVAL TECHNICAL MISSION IN EUROPE. The Syn- thesis of hydrocarbons and chemicals from CO and H ₂ . September 1945. 128 pp. (PB 22,841).	60

<u>Author and Title</u>	<u>B.I.O.S. Overall Report Number</u>
MINISTRY OF FUEL AND POWER. Report on the petroleum and synthetic oil industry of Germany, 134 pp., incl. map, diagrs., tables. (PB 88,981-s).	1

Reports issued by the
Combined Intelligence Objectives Sub-Committee (C.I.O.S.)

(See also the listings of B.I.O.S.; F.I.A.T.; J.I.O.A.;
 B.I.G.S.; F.I.A.T. Reels, and Miscellaneous Reports).

<u>Author and Title</u>	<u>C.I.O.S. File No.</u>	<u>Item Number</u>
BARDGETT, H.; REED, F.H.; SCHMIET, L.D. Heinrich Koppers G.m.b.H. Moltke Strasse 29, Essen. July 28, 1945. (Visit made to learn of any recent developments in coke-oven practice, and to discuss methods of testing of coal and coke and of gas purifi- cation). 3 pp. (PB-L85,385).*	XXXIII-39	30
FENNEBRESQUE, J.D.; MONRAD, C.C.; TROYAN, J.E. Synthetic rubber plant - Buna Werke - Schkopau A.G. 65 pp., illus. (PB 512).	XXII-22	22
GORDON, K.; THOMPSON, O.F. I.G. Farben- industrie A.G. Frankfurt/Main. 30 pp. (PB 6,665).	XXIII-15	30
SANITER, Frank H. German open hearth furnace refractories. 19 pp., 3 diagrs. June 1945. (CIOS Trip 423). (Appendix No. 9 to CIOS Report XXXII-119). (PB 78,214).	XXXIII-57	31
WAGNER, E.H.; IVORY, W.; HOLMES, J.G. Tungsten carbide plants. (On Nov. 22 and 23, 1944 the team visited Messrs. Filiere Union and Societe de Lorraine de Charbon pour l'Electricite, two French firms lo- cated in Paris and engaged in the production of Tungsten carbide). 12 pp. (PB 313).	XVII-3	2

* Reports having "PB" numbers may be purchased from the Office
 of Technical Services, Department of Commerce, Washington 25,
 D. C., under that number.

Reports issued by the
Field Information Agency, Technical (FIAT)
 Office of Military Government for Germany (U.S.)

(See also the listings of B.I.O.S.; C.I.O.S.; J.I.O.A.;
 B.I.G.S.; F.I.A.T. Reels, and Miscellaneous Reports).

<u>Author and Title</u>	<u>F.I.A.T. Final Report Number</u>
ATWELL, H.V. Gumz powdered coal - gasification process. Sept. 15, 1947. 53 pp., 18 diags. (PB L85,163)*.	1304
ATWELL, H.V. Koppers powdered coal gasification process. Sept. 2, 1947. 51 pp., diags., illus. (PB L85,165).	1303
ATWELL, H.V. The Schmalfeldt process for making synthesis gas from methane. Sept. 30, 1947. (Describes work done in the plant of Klocknerwerke, A.G., Castrop-Rauxel, Germany). 23 pp., 3 diags. (PB 85,164).	1305
BAUM, Sidney J. and DUNLOP, Richard D. Polymerization of vinyl acetate. April 22, 1947. 50 pp., diags. (PB 78,741).	1102
BLOOMFIELD, Gerd M. Technical and scientific developments related to the asbestos industry in Germany. March 23, 1947. 42 pp., diags., illus. (PB 78,290).	1070
BLUMENTHAL, L.M. Activated carbon production in Germany during the war. June 5, 1947. 21 pp. (PB 85,143).	1181
BLUMENTHAL, L.M. Recent German developments in the field of dental resins. May 27, 1947. 11 pp. (PB 80,381).	1185
BRADSHAW, A.P. and KEITH, B.W. Subject index of documents microfilmed at I.G. Farbenindustrie A.G., Hoechst. May 26, 1947. (PB 81,804-81,810 inclusive).	1187 VOLUMES 1-7

* Reports having "PB" numbers are for sale to the general public at the Office of Technical Services, Department of Commerce, Washington 25, D. C., under that number.

<u>Author and Title</u>	<u>Number</u>
BRANDNER, John D. and GOEPP, Max. Jr. The manufacture of ethylene glycol, polyglycols, glycol ethers, ethylene cyanhydrin and acrylonitrile, phenyl ethyl alcohol and related derivatives of ethylene oxide in Germany. 76 pp., diags. (PB 85,159).	1311
BRICE, Arthur T. The phase principle in microscopy. March 31, 1947. 47 pp., diags., illus. (PB 78,279).	1059
BRICE, Arthur T. The phase principle in microscopy. April 22, 1947. 17 pp., diags., illus. (PB 78,259-S).	1059 Supp. No. 1
CARLSMITH, L.E. Large scale production of oxygen - further information. May 14, 1947. 45 pp., 51 diags. (PB 88,840).	1120
CARPENTER, G.B. Chlorinated hydrocarbons. April 11, 1947. 62 pp., diags. (PB 75,813).	843
CARPENTER, G.B. Reactions of carbon monoxide with acetylene, alcohols, cyclic ethers, to produce aliphatic saturated and unsaturated acids and esters. Oct. 17, 1946. 14 pp., diagr. (PB 58,447).	933
CARTER, A.S.; CAIN, G.A. The production of acetylene by the partial combustion of methane. April 11, 1947. 22 pp., 8 diags. (PB 67,790).	988
COITH, H.S. and ROBITSCHER, F.O. Determination of suitability of paraffin mixtures for conversion to fatty acids by catalytic oxidation. Nov. 25, 1946. 2 pp. of diags. (PB 42,659-S).	905 Supp. No. 1
COMSTOCK, Gregory J. German powder metallurgy. June 17, 1947. 105 pp., diags. (PB 39,354).	772
DIRENGA, O.G. and LEAPER, P.J. The production of acetylene from methane in a regenerative type furnace - Ruhrchemie A.G., Oberhausen-Holten. April 9, 1947. 41 pp., diags. (PB 80,331).	1079

<u>Author and Title</u>	<u>F.I.A.T. Final Report Number</u>
DUNLOP, R.D. The manufacture of phenol formaldehyde resins and molding powders. April 29, 1947. 68 pp., diags. (PB 81,276).	1077
DUNLOP, R.D. The production of polyvinyl acetals. April 22, 1947. 16 pp., diags. (PB 67,587).	1109
DUNLOP, R.D. The production and use of polyvinyl alcohol. April 8, 1947. 12 pp. (78,667).	1110
EPLETT, A.D.; HAIGLER, E.D.; LAMB, D.C.; PETERS, J.C. Study of the industrial processing instrument industry in Germany. November 17, 1945. 134 pp., diags., illus. (PB 4,600s86).	523 and 586
FINKELNBURG, Wolfgang. The high current carbon arc. 219 pp., diags., illus. (PB 81,644).	1052
FROMHOLZ, A. Stanley. Experimental study of a continuous Bucher process for the production of sodium cyanide. 3 pp. (PB 85,156).	1310
FROMHOLZ, A. Stanley. Urea manufacture at the I.G. Farbenindustrie Plant, Oppau - Supplementary information. 3 pp. (PB 47,773-S).	889 Supp.
FULLER, D.L.; WEIR, H.M.; ZOSS, A.O.; LEAPER, Percy J.; DIRENGA, O.G. with Appendix 9 by FONTERA, R.J. Manufacture and purification of arc acetylene. June 16, 1947. 122 pp., 26 diags. (PB 81,826).	921
FULLER, D.L.; ZOSS, A.O.; WEIR, H.M. The manufacture of butynediol (and certain related materials) from acetylene and formaldehyde. 50 pp., 18 diags. (PB 80,334).	926
GARDINER, W.C.; HAUSER, Howard E.; KARR, Errol H.; LYON, Charles E.; RULE, Kenneth E. Production of sodium sulfide from sodium amalgam. April 8, 1946. 6 pp., one diagr. (PB 44,669).	790

<u>Author and Title</u>	<u>Number</u>
GARDINER, W.C.; HAUSER, Howard E.; LYON, Charles E.; RULE, Kenneth E. Aluminum hydroxy chloride production at Ludwigshafen by electrochemical and chemical methods. April 3, 1946. 9 pp., 2 diags. (PB 44,668).	788
GECK, Walter H. Handbook of industrial hazards from explosive dusts. VOLUME I. May 30, 1947. (Deals with dust, its analysis, the causes, and general methods of prevention of dust ignitions). 109 pp., incl. diags. (PB 85,197).	1169
GECK, Walter H. Handbook of industrial hazards from explosive dusts. VOLUME II. May 30, 1947. (Describes various dust conditions within certain industries and gives several hundred analyses of officially confirmed dust explosions). 263 pp., incl. diags., illus. (PB 85,198).	1169
GLUCK, Bruno. The manufacture of agfacolor material, April 25, 1947. 93 pp., diags. (PB 78,248).	943
GOEPP, R. Max Jr.; FULLER, D.L.; VAUGHAN, W.E.; BRANDNER, John D. The manufacture of ethylene oxide via chlorohydration of ethylene. June 5, 1947. 51 pp., 15 diags. (PB 80,396).	874
HASS, A.; GLOSS, G.H. Subject index of documents microfilmed at I.G. Farbenindustrie, Uerdingen. May 26, 1947. 42 pp. (PB 81,287).	1122
HOLM, M.M.; NAGEL, R.H.; REICHL, E.H.; VAUGHAN, W.E. The oxo process. (summarization of all phases of this development). 76 pp., diags. (PB 81,383).	1000
HOPKINS, H.H. Manufacture of oxalic acid. June 1947. 10 pp., diags. (This report describes the manufacture of oxalic acid as conducted by Rudolph Koepp & Co. at Oestrich near Rudesheim.) (PB 85,142).	1307
HOPKINS, H.H.; VON SCHLIEBEN, W.A. Manufacture of phthalic anhydride by I.G. Farbenindustrie. 10 pp., one diag. (PB 67,696).	984 Supp. No. 1.

<u>Author and Title</u>	<u>Number</u>
JOHNSON, C.A.; BUSCHOW, H.F.; CARLSMITH, L.E. Gasification of coal. April 22, 1947. 33 pp., 17 diags. (PB 80,330).	938
KAMMERMEYER, K. and CARPENTER, G.B. Alcohols by hydration of olefins. April 2, 1947. 33 pp., diags. (PB 78,277).	968
KIRSCHBAUM, Emil. English translation of seven papers on distillation and absorption equipment design methods. June 14, 1947. 52 pp., 32 diags. (PB 88,807).	973
KRAFT, E.A. High pressure steam turbines. May 20, 1947. (This report outlines and explains in detail the fundamental design and developments of high pressure steam turbines.) 269 pp. (PB 85,169).	1149 Volume I
KRAFT, E.A. High pressure steam turbines. 96 pp. of diags. and illus. (PB 85,170).	1149 Volume II
KREBS, H.L. German methods for the manufacture of iron powder cores. April 29, 1947. 13 pp. (PB 78,996).	1101
KREBS, H.L. Sintered iron shell rotating bands. (Manufacturing of by the powder metallurgy process.) March 19, 1947. 8 pp. (PB 78,261).	979
KRIEBLE, R.H.; HOLMES, J.B.; WILCOXON. Phenol manufacture in Germany by the chlorination, sulfonation; and Raschig processes. April 11, 1947. 55 pp., diags. (PB 76,032).	768
KRUTA, Erich. The manufacture of vinyl chloride by means of liquid catalysts. June 17, 1947. 24 pp., diags. (PB 80,395).	1199
KWASNIK, W.; SCHERER, P. Recent German research work on fluorine and fluorine compounds. June 5, 1947. 57 pp., diags., illus. (PB 80,338).	1114

<u>Author and Title</u>	<u>F.I.A.T. Final Report Number</u>
LEAPER, P.J.; DIRENGA, O.G. The lower vinyl ethers and their use for acetaldehyde manufacture. May 13, 1947. 24 pp., diags. (PB 79,606).	1080
LEAPER, P.J.; DIRENGA, O.G. The manufacture of ethylene by reduction of acetylene. April 22, 1947. 18 pp., diags. (PB 167,578).	1107
LEE, Walter. Synthetic rubber desmodur "R". January 29, 1946. 9 pp., 2 illus. (PB 27,521).	722
MACMULLIN, R.B. Fertilizers made by I.G. Farbenindustrie A.G. at Leuna and Piesteritz. March 21, 1946. 56 pp., 14 diags. (PB 44,650).	718
MAJOR, Coleman J. Manufacture of isododecylphenol by I.G. Farbenindustrie A.G., Uerdingen. March 31, 1947. 9 pp., one diagr. (PB 78,270).	1039
MUMFORD, R.W.; MCALLISTER, M.H.; SMITH, J.P.; INTO, A.N.; GLOSS, G.H. The mining and refining of potash in the American and British zones of Germany. March 5, 1947. 27 pp., diags. (PB 78,283).	1045
NASH, Roy W. Catalysts for the manufacture of phthalic anhydride and aniline - I.G. Farbenindustrie A.G., Ludwigshafen. May 30, 1947. 15 pp., diags. (PB 81,279).	649
NEUBAUER, J.A. High temperature chlorination of methane at Huls. June 5, 1947. 3 pp. (PB 80,400).	1154
NEUBAUER, J.A. Phenol manufacture in Germany by the chlorination, sulfonation, and Raschig processes. May 30, 1947. 7 pp., one diagr. (PB 176,032-S). Supp. No. 1	768
NILL, F.; LARGENT, R. Manufacture of acrylonitrile by addition of hydrocyanic acid to acetylene. May 23, 1947. 18 pp., diags. (PB 81,283).	1125
NILL, F.; LARGENT, R. Soda ash manufacture in southern and western Germany. April 29, 1947. 48 pp., diags. (PB 81,278).	1074

<u>Author and Title</u>	<u>F.I.A.T. Final Report Number</u>
ORNSEN, G.M. The Niers sewage disposal process. April 25, 1947. 32 pp., diags., illus. (PB L78,208).	1005
POLLITZER, W.M. Utilization of oxygen in the German iron and steel industry. June 14, 1947. 26 pp., diags., illus. (PB 81,385).	1203
POPE, Arthur W., Jr. Heavy duty diesel engines manu- factured by man (Maschinenfabrik, Augsburg- Nurnberg). Jan. 8, 1946. 32 pp., diags., illus. (PB 40,922).	674
REYNOLDS, P.G. A survey of high pressure equipment designs in Germany. May 13, 1947. 35 pp., diags. (PB 81,280).	1067
RICE, A.J.; FRARY, F.C. The aluminum reduction in- dustry in Germany. Nov. 14, 1946. 22 pp. (PB 60,889).	993
RICE, A.J.; FRARY, F.C. Carbon electrodes in Germany for the aluminum reduction industry. Nov. 19, 1946. 12 pp. (PB 60,888).	986
ROONEY, J.F. Utilization of tall oil in Germany. June 5, 1947. 22 pp. (PB 81,822).	1144
SCHEMP, R. Review of centrifugal casting methods. May 27, 1947. 3 pp. (PB 81,285).	1161
SCHULTZE, Georg R. and STAGE, Hermann. Performance of a new standard laboratory fractionating column. Dec. 23, 1947. 41 pp., incl. diags. (In German). (PB 88,815).	1133
SERGEYS, F.J. The thermal cracking of ethane -- Oppau process. April 16, 1948. 18 pp., incl. diags. (PB 86,765).	1294
SHERWOOD, P.W. High pressure hydrogenation in Germany. I. The liquid phase. May 30, 1947. 247 pp., incl. diags. (PB 88,839).	952.

<u>Author and Title</u>	<u>F.I.A.T. Final Report Number</u>
SHERWOOD, P.W. Oxidation of methane to formaldehyde. (Interrogation of Dr. Karl Schmitt of Bergwerks Gesellschaft, Hibernia A.G., at Herne). June 27, 1946. 4 pp., one diagr. (PB 44,656).	608
SITTEL, Karl. An instrument for the measurement of the radio-active content of moving gases. Dec. 23, 1947. 5 pp., incl. diagsr. (In German). (PB 88,816).	1171
SMITH, A.E. Poly-Vinyl chloride production at Burg-hausen and Ludwigshafen. July 29, 1946. 25 pp., 7 diagsr. (PB 44,674).	862
STROEHLER, R. English translation of the future of gas turbine installations. April 2, 1947. 89 pp., diagsr. (PB 78,272).	1034
STUMPF, W. The pressure hydrogenation of sulfite liquor. Feb. 28, 1947. 16 pp., diagsr. (PB-81,849).	1136
SWAN, S. Jr.; ELLIAS, N.M.; FULLER, D.L. The chemical and technical basis for the synthesis of butadiene at I.G. Ludwigshafen. (A lecture by Dr. Georg Niemann, May 12, 1944). April 2, 1947. 29 pp., 10 diagsr. (PB 60,574).	1003
THORNHILL, F.S. Acetylene carbon blacks. June 14, 1947. 16 pp., diagsr. (PB 80,399).	1186
THORNHILL, F.S. Rubber reinforcing carbon blacks from naphthalene and anthracene (CK3 and CK4 blacks). March 24, 1948. 39 pp., incl. diagsr., illus. (PB 88,805).	1128
TREMBOUR, F.W. Subject index of documents microfilmed at Fr. Krupp, A.G., Essen. May 27, 1947. (PB 81,811-81,818 inclusive).	1190 Volumes 1-8
VAUGHAN, W.E.; GOEPP, R. Max Jr. Proposed ethylene oxide manufacture via oxidation of ethylene at Zweckel near Gladbeck. May 2, 1947. 83 pp., 22 diagsr. (PB 79,607).	875
WALTER, H.; WALTER, B.; WILLCOXON, B.H. German developments in high explosives. April 9, 1947. 38 pp., diagsr. (PB 78,271).	1035

<u>Author and Title</u>	<u>F.I.A.T. Final Report Number</u>
WILCOXON, B.H. Manufacture of methane chlorination products in I.G. Hoechst plant. March 3, 1948. 24 pp., incl. diags. (PB 86,483).	1299

Reports issued by the
Joint Intelligence Objectives Agency (J.I.O.A.)

(See also the listings of B.I.O.S.; C.I.O.S.; F.I.A.T.; B.I.G.S.; F.I.A.T. Reels, and Miscellaneous Reports).

<u>Author and Title</u>	<u>J.I.O.A. Report Number</u>
BUCH, J.W.; NEWMAN, L.L.; ROSE, H.J. Pierre Demart underground gasification of coal. August 14, 1945. 5 pp. (PB 60,918)*	80

British Interrogation German Scientist (B.I.G.S.) Reports
Issued by the
Scientific Report Division,
Joint Intelligence Objectives Agency (J.I.O.A.), Washington, D. C.

(See also the listings of B.I.O.S.; C.I.O.S.; F.I.A.T.; J.I.O.A.; F.I.A.T. Reels, and Miscellaneous Reports).

<u>Author and Title</u>	<u>B.I.G.S. Report Number</u>
LUFT, Norbert. Heterogeneous catalytic decomposition of flowing concentrated hydrogen peroxide. Nov. 27, 1946. 42 pp., diags.	175

* Reports having "PB" numbers may be purchased from the Office of Technical Services, Department of Commerce, Washington 25, D. C., under that number.

ENLARGEMENT PRINTS
 German Patents and Patent Applications
 (In German)

German Patents

F.I.A.T.
 Reel
Number

- ALBERTS, Dipl. Ing. Leonhard and FEISST, Dr. Walter,
 Ruhrchemie A.G. German Patent 744,184, Class
 12 o, Group 103. Process for carrying out
 catalytic carbon monoxide hydrogenation under
 pressure. Frames 00876-00877. (Patented in
 the German government April 30, 1940).
 (PB L70,432)* E-29
- HERBERT, Dr. Wilhelm, Metallgesellschaft A.G.
 German Patent 744,076, Class 12 o, Group 103.
 Process for the catalytic change of carbon
 monoxide and hydrogen containing gas mixtures
 into hydrocarbons. Frames 00610-00611.
 (Patented in the German government May 16,
 1937). (PB L70,432). E-29
- HERBERT, Dr. Ing. Wilhelm, Metallgesellschaft A.G.
 German Patent 744,077, Class 12 o, Group 103.
 Process for the preparation of high-boiling
 hydrocarbons - by catalytic change of gases
 containing carbon monoxide and hydrogen.
 Frames 00612-00613. (Patented in the German
 government July 18, 1937). (PB L70,432). E-29
- HERBERT, Dr. Ing. Wilhelm, Metallgesellschaft A.G.
 German Patent 744,078, Class 12 o, Group 103.
 Process for the preparation of hydrocarbons by
 carbon monoxide hydrogenation. Frames 00614-
 00615. (Patented in the German government
 Sept. 26, 1937). (PB L70,432). E-29

* Patents having "PB" numbers may be purchased from the Office
 of Technical Services, Department of Commerce, Washington 25,
 D. C., under that number.

- HERBERT, Dr. Wilhelm and GROSS, Dr. Hans-Werner,
Metallgesellschaft A.G. German Patent 745,444,
Class 12 o, Group 103. Process for the prepara-
tion of iron-containing catalysts for carbon
monoxide hydrogenation. Frames 00118-00120.
(Patented in the German government January 25,
1939). (PB L70,436). E-33
- I.G. FARBENINDUSTRIE A.G. German Patent 725,604.
I. 66,813 IVd/12 o. O.Z. 12,089. April 4,
1940. Process for the splitting or pressure
hydrogenation of carbon-containing compounds.
Addition to Patent.....(Application
I. 61,963 IVd/12 o).. Frames 01568-01570.
(PB 25,607). 163
- I.G. FARBENINDUSTRIE A.G. German Patent 741,224
(French Patent 893,492). I. 67,220 IVd/12 o.
O.Z. 12,201. Process for the preparation of
anti-knock gasoline by splitting pressure
hydrogenation of middle oils and heavy
gasolines. June 18, 1940. Frames 01991-
01994. (PB 25,607). 163
- KEUNECKE, Dr. Emil; KURZINGER, Dr. Alfred; WEISS,
Dr. Bernhard, I.G. Farbenindustrie. German
Patent 744,136, Class 12 o, Group 11. Process
for the separation of mixtures of straight-
chained and branch-chained high molecular
fatty acids. Frames 00763-00764. (Patented
in the German government June 28, 1940).
(PB L70,432). E-29
- KEUNECKE, Dr. Emil and NIENBURG, Dr. Hans-Jürgen,
I.G. Farbenindustrie A.G. German Patent
744,079, Class 12 o, Group 11. Process for
the preparation of fatty acids from crude
paraffins. Frames 00616-00617. (Patented
in the German-government June 20, 1940).
(PB L70,432). E-29

F.I.A.T.
Reel
Number

PFANNMÜLLER, Dr. Wilhelm and REICHART, Dipl. Ing.

Josef, I.G. Farbenindustrie A.G. German Patent 744,075, Class 12 g, Group 401. Process and arrangement for carrying out catalytic gas reactions. Frames 00607-00609. (Patented in the German government August 3, 1939). (PB L70,432).

E-29

STEINKOHLBERGWERK RHEINPREUSSEN. German Patent

743,995, Class 12 o, Group 103. Process for the improvement of the synthesis gases used in the Fischer-Tropsch gasoline synthesis. Frames 00167-00168. (Patented in the German government March 17, 1938). (PB L70,432).

E-29

THLEMB, Dr. Carl. German Patent 744,080, Class

12 o, Group 11. Process for the preparation of fatty acids by ozonization of olefin-containing hydrocarbon mixtures. Frames 00618-00619. (Patented in the German government June 12, 1938). (PB L70,432).

E-29

TRAMM, Dr. Heinrich and WLSCHERMANN, Walter,

Ruhrchemie A.G. German Patent 744,185, Class 12 o, Group 103. Process for carrying out carbon monoxide hydrogenation over catalysts suspended in a liquid medium. Frames 00878-00880. (Patented in German government March 11, 1941). (PB L70,432).

E-29

Patent Applications

I.G. FARBENINDUSTRIE. I. 63,659/12 o. O.Z. 11,328.

January 31, 1939. Process for splitting and aromatizing pressure hydrogenation of hydrocarbon oil...Frame 00093. (PB L25,616)*

172

* Patent applications having "PB" numbers may be purchased from the Office of Technical Services, Department of Commerce, Washington 25, D. C., under that number.

	F.I.A.T. Reel <u>Number</u>
I. 65,553/17 g. O.Z. 11,753. August 31, 1939. High pressure vessels. Frame 00076. (PB L25,616).	172
I. 66,140/17 g. O.Z. 11,908. Dec. 13, 1939. High pressure vessel. Addition to Patent.... (Patent application I. 60,562 I/17 g). Frames 00349-00351 and 00087. (PB L25,616).	172
I. 66,305/23 b. O.Z. 11,960. Jan. 18, 1940. Obtaining anti-knock, stock gasoline..... Frames 00097-00098. (PB L25,616).	172
I. 66,393/17 g. O.Z. 11,984. Jan. 29, 1940. High pressure vessel. Addition to patent... (Patent application I 60,562 I/17 g.) Frames 00357-00360 and 00102. (PB L25,616).	172
I. 66,482 Ia/17 g. O.Z. 12,014. Feb. 15, 1940. High pressure vessel. Addition to patent.....(Patent application I. 60,562 I/ 17 g). Frames 00380-00381 and 00106. (PB L25,616).	172
I. 66,544/12 o. O.Z. 12,027 (186). Feb. 23, 1940. Obtaining anti-knock hydrocarbons. Frame 00107. (PB L25,616).	172
I. 66,625/23 b. O.Z. 12,054. March 8, 1940. Preparation of high anti-knock gasoline. Frame 00110. (PB L25,616).	172
I. 66,644 IVd/12 o. O.Z. 12,053. March 6, 1940. Process for the preparation of high- molecular hydrocarbons. Frames 01396-01404. (PB 25,607).	163
I. 66,701/12 o. O.Z. 12,068. March 19, 1940. Process for splitting pressure hydrogenation. Frame 00114. (PB L25,616).	172
I. 66,711 IVd/12 o. O.Z. 12,064. March 16, 1940. Process for the replacement of carbon monoxide by hydrogen to form hydrocarbons. Frames 01456-01461. (PB 25,607).	163

I. 66,987/23 b. O.Z. 12,129 (223). May 3, 1940. Preparation of anti-knock fuels. Frame 00123. (PB L25,616).	172
I. 67,082 IVd/12 o. O.Z. 12,169. May 27, 1940. Process for the preparation of valuable hydrocarbons from carbon monoxide and hydrogen. Frames 01841-01844. (PB 25,607).	163
I. 67,132, /12 o. O.Z. 12,180 (see additions 12,624, 12,625, 12,731). June 3, 1940. Preparation of anti-knock fuels. Frames 00128-00128A. (PB L25,616).	172
I. 67,150/12 o. O.Z. 12,187. June 4, 1940. Process for the preparation of fatty alcohols. Frames 01942-01944. (PB 25,607).	163
I. 67,151/12 o. O.Z. 12,188. June 5, 1940. Preparation of anti-knock fuels from middle oils. Frames 00129-00129A. (PB L25,616).	172
I. 67,173 IVd/12 o. O.Z. 12,192. June 8, 1940. Process for the preparation of fatty acids. Frames 01954-01955. (PB 25,607).	163
I. 67,265 IVd/23b. O.Z. 12/209. June 25, 1940. Process for the preparation of liquid hydrocarbons from tars, mineral oils, pressure hydrogenation products, and the like, or their higher boiling fraction. (PB 25,607). Frames 02019-02022.	163
I. 67,348/22 b. O.Z. 12,240. July 10, 1940. Preparation of anti-knock hydrocarbon mixtures. Frame 00137. (PB L25,616).	172

F.I.A.T.
Reel
Number

I. 67,460 VI/26 a. O.Z. 12,258. July 18, 1940. Process for obtaining hydrogen-carbon monoxide mixtures for hydrocarbons. Frames 02199-02202. (PB 25,607).	163
I. 67,516/12 o. O.Z. 12,277 (218). July 30, 1940. Preparation of anti-knock fuels from olefins. Frame 00140. PB L25,616.	172
I. 67,554 IVd/12 o. O.Z. 12,272. July 25, 1940. Process for splitting synthetic fatty acid mixtures. Frames 02244-02247. (PB 25,607).	163
I. 69,052/12 o. O.Z. 12,624. Addition to 12,180. March 8, 1941. Further development of I. 67,132 for the preparation of anti-knock fuels from high boiling hydrocarbon oils. Frame 00187. (PB L25,616).	172
I. 69,053/12 o. O.Z. 12,625. March 8, 1941. Further development of O.Z. 12,180 and O.Z. 12,624 for the preparation of anti-knock fuels for high boiling hydrocarbon oils. Frame 00188. (PB L25,616).	172
I. 69,080/23 b. O.Z. 12,632. March 11, 1941. Preparation of hydrogen-poor hydrocarbons, in particular, anti-knock fuels. Frames 00189-00189A. (PB L25,616).	172
I. 69,081/23 b. O.Z. 12,633. March 11, 1941. Preparation of hydrogen-poor hydrocarbons, in particular, anti-knock fuels. Frames 00190-00190A. (PB L25,616).	172
I. 69,188/23 b. O.Z. 12,657. March 20, 1941. Preparation of anti-knock fuels from hydrocarbon oils. Frames 00195-00196. (PB L25,616).	172
I. 69,261/12 o. O.Z. 12,677. March 27, 1941. Preparation of low boiling hydrocarbons. Frames 00197-00197A. (PB L25,616).	172

	F.I.A.T. Reel <u>Number</u>
I. 69,370/7 b. O.Z. 12,710. April 15, 1941. Preparation of Wickel structures. Frame 00201. (PB L25,616).	172
I. 69,414/23 b. O.Z. 12,718. April 19, 1941. Preparation of anti-knock fuels. Frames 00203-00204. (PB L25,616).	172
I. 69,445/12 c. O.Z. 12,731. April 26, 1941. Further development of the process according to O.Z. 12,180 and O.Z. 12,624 for the preparation of anti-knock fuels. Frames 00205-00206. (PB L25,616).	172
I. 69,493/12 o. O.Z. 12,733. Addition to 10,859. April 28, 1941. Preparation of valuable hydrocarbons. Frame 00207. (PB L25,616).	172
I. 69,498/12 o. O.Z. 12,741. May 3, 1941. Process for catalytic pressure hydrogenation of coal, tar or mineral oils.... Frames 00209-00210. (PB L25,616).	172
I. 69,499/12 o. O.Z. 12,742. May 5, 1941. Preparation of low boiling hydrocarbons. Frames 00211-00211A. (PB L25,616).	172
I. 69,500/12 o. O.Z. 12,743. May 5, 1941. Preparation of an anti-knock fuel..... Frames 00212-00213. (PB L25,616).	172
I. 69,519/12 o. O.Z. 12,746. April 6, 1941. Preparation of anti-knock gasoline. Frames 00214-00216. (PB L25,616).	172
I. 69,547/12 o. O.Z. 12,749 (290). May 6, 1941. Preparation of cycloparaffins..... Frame 00217. (PB L25,616).	172
I. 69,587/12 o. O.Z. 12,769. Addition to O.Z. 12,926. May 16, 1941. Process for the splitting pressure hydrogenation of heavy oils or middle oils. Frames 00219-00220. (PB L25,616).	172

F.I.A.T.
Reel
Number

I. 69,618/7 b. O.Z. 12,768. May 16, 1941. Process for the preparation of Wickel structures. Frame 00218. (PB L25,616).	172
I. 69,703/7 b. O.Z. 12,798. May 27, 1941. Process for the production of Wickel structures, in particular, high-pressure hollow vessels. Frames 00365-00368 and 00221. (PB L25,616).	172
I. 69,907 Ib/7 b. O.Z. 12,848. June 25, 1941. Process for the production of Wickel structures. Frames 00369-00371 and 00228. (PB L25,616).	172
I. 69,977/7 b. O.Z. 12,855. July 3, 1941. Addition to O.Z. 12,445. High pressure vessels. Frame 00229. (PB L25,616).	172
I. 70,033/12 o. O.Z. 12,881. July 9, 1941. Preparation of liquid hydrocarbons, in particular, ones which can be used as fuels. Frames 00231- 00231a. (PB L25,616).	172
I. 70,137/12 o. O.Z. 12,924. July 31, 1941. Preparation of motor fuels and heating oils. Frames 00234-00236. (PB L25,616).	172
I. 70,165/12 o. O.Z. 12,926. (Addition to O.Z. 12,769. See O.Z. 13,627). August 1, 1941. Splitting pressure hydrogenation of heavy oils and middle oils according to O.Z. 12,769. Frames 00237-00238. (PB L25,616).	172
I. 70,209/12 o. O.Z. 12,942. (Addition to O.Z. 12,741). August 13, 1941. Process for catalytic pressure hydrogenation according to O.Z. 12,741. Frame 00241. (PB L25,616).	172
I. 70,211/23 b. O.Z. 12,944. August 13, 1941. Further development of process according to O.Z. 12,741 and O.Z. 12,943, for use of certain catalysts in pressure hydrogenation of coal, tar and mineral oils. Frame 00242. (PB L25,616).	172

	F.I.A.T. Reel <u>Number</u>
I. 70,230/12 o. O.Z. 12,937. August 9, 1941. Preparation of....hydrocarbons. Frame 00240. (PB L25,616).	172
I. 70,423/23 b. O.Z. 12,986. (See O.Z. 12,633.) September 13, 1941. Preparation of hydrogen- poor hydrocarbons, in particular, anti-knock fuels. Frames 00245-00245A. (PB L25,616).	172
I. 70,450/12 o. O.Z. 12,994 (308). September 16, 1941. Preparation of fuels. Frame 00247. (PB L25,616).	172
I. 70,488/12 o. O.Z. 13,005 (?12). September 24, 1941. Catalytic exchange of carbon monoxide with hydrogen to liquid and solid oxygen-containing organic compounds. Frames 00249-00250. (PB L25,616).	172
I. 70,503/12 o. O.Z. 13,010 (313). September 25, 1941. Exchange of carbon monoxide with hydrogen to liquid and solid oxygen-containing organic compounds. (Frames 00250-1- 00251). (PB L25,616).	172
I. 70,640/12 g. O.Z. 13,043 (320). October 15, 1941. Preparation of.....catalysts or ad- sorbents from finely ground materials. Frame 00255. (PB L25,616).	172
I. 70,655/23 c. O.Z. 13,045 (321). October 17, 1941. Hydrocarbon oils. Frame 00256. (PB L25,616).	172
I. 70,679/7 b. O.Z. 13,046. (Addition to O.Z. 12,848). October 17, 1941. High pressure vessels. Frame 00257. (PB L25,616).	172

F.I.A.T.
Reel
Number

- I. 70,680 Ib/7 b. O.Z. 13,047. (Addition to O.Z. 12,848.) October 17, 1941. Process for the production of Wickel structures. Addition to patent....(Patent application I. 69,907 Ib/7 b). Frames 00592-00594 and 00258. (PB L25,616). 172
- I. 71,101/17 g. O.Z. 13,154. December 15, 1941. High pressure vessel with flanges. Frames 00391-00393 and 00264. (PB L25,616). 172
- I. 71,558/12 g. O.Z. 13,255 (365). February 14, 1942. Further improvement of catalysts contaminated with combustible carbon-containing deposits. Frame 00281. (PB L25,616). 172
- I. 71,560/7 b. O.Z. 13,257. (Addition to 12,445). February 13, 1942. Process for the preparation of pressure hollow vessels. Addition to patent.... (Patent application I. 68,263 Ib/7 b.) Frames 00400-00403 and 00282. (PB L25,616). 172
- I. 71,725/12 o. O.Z. 13,281. February 2, 1942. Exchange of carbon monoxide with hydrogen to liquid and solid oxygen derivations of hydrocarbons. Frames 00284-00285. (PB L25,616). 172
- I. 71,916/12 o. O.Z. 13,345 (366). March 28, 1942. Exchange of carbon monoxide with hydrogen. Frame 00289. (PB L25,616). 172
- I. 71,917/12 o. O.Z. 13,346. March 28, 1942. Exchange of carbon monoxide with hydrogen to liquid and solid oxygen-containing organic compounds. Frames 00287-00288. (PB L25,616). 172
- I. 72,035/12 o. O.Z. 13,386 (346). April 20, 1942. Preparation of anti-knock fuels. Frame 00293. (PB L25,616). 172
- I. 73,009/12 o. O.Z. 13,627. See O.Z. 12,926. August 25, 1942. Process for splitting pressure hydrogenation of heavy oils or middle oils.... Frames 00319-00321. (PB L25,616). 172

	F.I.A.T. Reel Number
I. 73,342 IVd/12 o. O.Z. 13,711. Oct. 9, 1942. Working up of products from the carbon-monoxide- hydrogen conversion. Frames 08728-08732. (PB L25,613).	169
I. 73,384 IVd/12 o. O.Z. 13,725. Oct. 15, 1942. Production of oxygen-containing compounds, preferably alcohols. Frames 08733-08742. (PB L25,613).	169
I. 73,627/7 b. O.Z. 13,805 (400). November 23, 1942. Further development of O.Z. 13,047 for the preparation of Wickel structures. Frame 00343. (PB L25,616).	172
I. 73,818 IVd/12 o. O.Z. 13,835. Dec. 10, 1942. Process for the preparation of oxygen-containing compounds. Frames 07887-07890. (PB L25,613).	169
I. 73,820 IVd/12 o. O.Z. 13,837. Dec. 11, 1942. Process for the preparation of oxygen-containing compounds. Frames 07891-07894. (PB L25,613).	169
I. 73,972 VIb/10 e. O.Z. 13,876. Dec. 23, 1942. Process for the working up of residues from the pressure hydrogenation of coal, tar, and mineral oil. Addition to patent (Patent application I. 68,527 VI/10a). Frames 07987-07991. (PB L25,613).	169
I. 74,059 IVd/23 b. O.Z. 13,904. Jan. 9, 1943. Process for the preparation of anti-knock gasoline. Frames 08066-08069. (PB L25,613).	169
I. 74,060 IVb/12 g. O.Z. 13,912. Jan. 11, 1943. Process for carrying out hydrogenation reactions. Frames 08078-08035. (PB L25,613).	169
I. 74,142 IVd/12 o. Jan. 22, 1943. Process for the preparation of oxygen-containing compounds. Frames 08186-08190. (PB L25,613).	169

F.I.A.T.
Reel
Number

I. 74,150 v/24 e. O.Z. 13,939. Jan. 19, 1943. Process for the preparation of water gas or synthesis gas. Frames 08162-08165. (PB L25,613).	169
I. 74,241/12 o. O.Z. 13,974. February 4, 1943. Preparation of oxygen-containing compounds (alcohols). Frame 00364. (PB L25,616).	172
I. 74,254/12 o. O.Z. 13,984 (413). (Addition to DRP 718,130-O.Z. 9,006. See O.Z. 9,941). February 9, 1943. Lubricating oils from the polymerization of ethylene or gas mixtures containing it. Frame 1364B. (PB L25,616).	172
I. 74,279/12 o. O.Z. 13,981 (484). February 8, 1943. Preparation of dichlorbutane from a butane-butylene mixture. Frame 1364A. (PB L25,616).	172
I. 74,468/12 o. O.Z. 14,034. March 2, 1943. Replacement of carbon monoxide by hydrogen. Frames 00365-00366. (PB L25,616).	172
I. 74,507/12 g. O.Z. 14,054 (485). March 8, 1943. Arrangement for carrying out catalytic exchanges. Frame 00368. (PB L25,616).	172
I. 74,591/46 a. O.Z. 14,084 (446). March 22, 1943. Preparation of high-grade fuels. Frame 00372. (PB L25,616).	172
I. 74,736/12 o. O.Z. 14,118 (489). April 1, 1943. Preparation of oxygen-containing organic compounds. Frame 00377. (PB L25,616).	172
I. 74,790/12 o. O.Z. 14,131. April 9, 1944. Preparation of higher molecular hydrocarbons. Frames 00380-00381. (PB L25,616).	172
I. 74,797/12 g. O.Z. 14,130. April 9, 1943. Catalytic decomposition (for example, the splitting of hydrocarbons) in vapor or gas-phase. Frames 00378-00379. (PB L25,616).	172

F.I.A.T.
Reel
Number

- I. 75,051/12 o. O.Z. 14,190 (460). Addition to O.Z. 12,277. May 20, 1943. Preparation of anti-knock gasoline. Frame 00387. (PB L25,616). 172
- I. 76,862 IVd/12 o. O.Z. 14,600. Feb. 17, 1944. Process for the pressure hydrogenation of coal, tar, or mineral oils in the liquid phase. Frames 38423-38428. (PB L70,303). B-29
- I. 77,533/10 a. O.Z. 14,775. Addition to I. 68,527. June 5, 1944. Working up of the residues from the pressure hydrogenation of coal, tar, and mineral oils. Frames 00409-00410. (PB L25,616). 172
- I. 77,533 VIb/10 a. O.Z. 14,775. June 3, 1944. Process for the working up of residues from the pressure hydrogenation of coal, tar and mineral oils so as to obtain iron and valuable fuel gases. Addition to Patent.... (Patent application I. 68,527 VIb/10 a.) Frames 38438-38443. (PB L70,303). B-29
- I. 77,560/12 g. O.Z. 14,782. June 7, 1944. Process for executing catalytic reactions. Frames 00526-00529. (PB L25,616). 172
- I. 77,610/10 a. O.Z. 14,800. Addition to O.Z. 12,510. June 16, 1944. Working up of residues from pressure hydrogenation of coal, tar, and mineral oils. Frames 00414-00415. (PB L25,616). 172
- I. 77,610 VIb/10 a. O.Z. 14,800. June 15, 1944. Process for the working up of residues from the pressure hydrogenation of coal, tar, and mineral oils. (Addition to patent.... (Patent application I. 68,527 VIb/10 a.) Frames 38859-38862. (PB L70,303). B-29

I. 78,330/12 o. O.Z. 14,956. September 28, 1944. Obtaining hydrocarbon oils by pressure hydrogenation of coal, tar, or mineral oils in the liquid phase. Frame 00426. (PB L25,616).	172
I. 78,334/12 o. O.Z. 14,970. October 7, 1944. Further development of O.Z. 14,207 for continuous pressure hydrogenation of coal, tar, or mineral oils in the liquid phase. Frame 00427. (PB L25,616).	172
STANDARD OIL DEVELOPMENT CO. (New Jersey), St 59,586 IVd/23 b. O.Z. 12,075. March 26, 1940. Process for the improvement of the anti-knocking properties of fuels, especially gasolines. Frames 01486-01495. (PB 25,607).	163
St 59,525 IVd/23 b. O.Z. 12,050. March 5, 1940. Process for the preparation of anti-knock gasoline. Frames 01383-01387. (PB 25,607).	163
I.G. FARBENINDUSTRIE A.G. O.Z. 11,948. January 3, 1940. Cover for high pressure vessels. Addition to Patent.....(Patent application I. 60,562 I/17 g). Frames 00352-00356. (PB L25,616).	172
O.Z. 11,994. Feb. 5, 1940. Arrangement for winding metal bands on metal cores. Frames 00361-00364. (PB L25,616).	172
O.Z. 12,013. Feb. 13, 1940. High pressure hollow structures. Frames 00377-00379. (PB L25,616).	172
O.Z. 14,622. Feb. 28, 1944. Process for the replacement of carbon monoxide with hydrogen. Frames 00595-00599. (PB L25,616).	172
O.Z. 14,653. March 11, 1944. Separation of alcohols from their mixtures with hydrocarbons. Frames 00611-00614. (PB L25,616).	172

	F.I.A.T. Reel <u>Number</u>
O.Z. 14,718. April 25, 1944. Process for the preparation of oxygen-containing compounds. Frames 00640-00643. (PB L25,616).	172
O.Z. 14,758. May 24, 1944. Process for catalytic pressure hydrogenation of coal, tar and mineral oils. Frames 00514-00515. (PB L25,616).	172
O.Z. 14,763. May 31, 1944. Process for the preparation of high power fuels. Frames 005250-00523. (PB L25,616).	172
O.Z. 14,803. June 15, 1944. Process for carrying out catalytic reactions with finely divided catalysts. Frames 00535-00539. (PB L25,616).	172
O.Z. 14,819. June 21, 1944. Process for carrying out catalytic reactions. Addition to patent.... Patent application 1.....(O.Z. 14,782, June 7, 1944). Frames 00545-00548. (PB L25,616).	172
O.Z. 14,825. June 23, 1944. Process for the preparation of anti-knock fuels. Frames 00561-00565. (PB L25,616).	172
O.Z. 14,831. June 28, 1944. Process for the execution of catalytic decompositions. Frames 00688-00690. (PB L25,616).	172

MISCELLANEOUS REPORTS

CAULEY, S.P. and HAPPEL, J. The tannic acid sweetening process. 10 pp., 3 diags. Sept. 30, 1943. (Enlargement prints--TAG Report GPG-1). (PB L85,331)*

DEHN, K. Investigation of a synthetic lubricating oil of the Ruhr-Chemie A.G., in the hot-cooled single-cylinder test engine. 18 pp., incl. diags. (Enlargement prints--AAF T-2 Translation 938). (PB L80,827).

* Reports having "PB" numbers are for sale to the general public at the Office of Technical Services, Department of Commerce, Washington 25, D. C., under that number.

- FISCHER, Franz. (Kaiser-Wilhelm Institut). Studium der Eisen-Katalisatoren bei der Fischer-Tropsch Synthese. (Study of iron catalysts in the Fischer-Tropsch synthesis). March 28, 1947. Frames 1-128. (In German). (FIAT Reel CC-259). (PB 74,154).
- GRAF, Ernst G. Graphical representations of gas producer processes. May 1947. 20 pp. (TOM Reel 242, Report No. 16). (PB 79,563).
- HORN, Dr. Über die Zusammensetzung der Reaktionsprodukte der Benzinsynthese nach Fischer-Tropsch. (The composition of the reaction products of the gasoline synthesis according to Fischer-Tropsch). Oct. 15, 1940. Frames 002999-003008. (In German). (FIAT Reel A-26). (PB 170,249).
- KRUBER, Dr. Commercial outlook for new substances from coal tar. June 21, 1940. 104 pp., incl. diagrs. and illus. (Enlargement prints--in German). (PB 152,005).
- LEIST, Dr. and MEYER, Dr. Light metal soldering. 3 pp. (FIAT Reel C-211, ATI 6888. Microfilm A-F-TS-1875-RE).
- OSBORNE, R.M. Ad 5 paste for coal tar hydrogenation. April 22, 1947. One page. (Enlargement print--FIAT Technical Bulletin T-27). (PB 78,992).
- REID, William T. Low-temperature carbonization of coal in Japan. February 1948. 82 pp., incl. diagrs. and illus. (Bureau of Mines, I.C. 7430).
- SCHUSTER, Dr. Absorption of gases of catalyst carriers and hydrogenation catalysts. April 17, 1939. Frames 1415-1425. (Enlargement prints--in German--FIAT C-29). (PB 76,463).
- SPENGLER, Dr. Ing. habil G., Institut für Kohleforschung, Laboratorium für Mineralole und Teere an der Deutschen Technischen Hochschule. Data on synthetic olefin-hydrocarbons. 13 pp. (Enlargement prints).
- SPENGLER, Dr. Ing. habil G., Institut für Kohleforschung, Laboratorium für Mineralole und Teere an der Deutschen Technischen Hochschule. Report on hydrocarbons. 9 pp. (Enlargement prints).

SPENGLER, Dr. Ing. habil G., Institut für Kohleforschung, Laboratorium für Mineralole und Teere an der Deutschen Technischen Hochschule. Report on Pentadecen-1 and 3,6-Dimethylhepten-1. 4 pp. (Enlargement prints).

WAGNER, K.H. Synthetic fats. Sept. 24, 1947. (The contents of this 154-page report deals essentially with the following four viewpoints: Production of synthetic fats to be used as food, changes of fats during storage physiology of the fat metabolism, and synthetic fat in animal experimentaion and human pathology.) (In German). (PB 85,791).

Pittsburgh, Pa.
September 10, 1948
lor