

INDEX - MICROFILM REEL 279

<u>ITEM</u>		<u>FRAMES</u>
1	Bureau of Mines Translations: (T-461, T-471, T-477, T-481, T-483, K-1, K-2 not included).	
T-460	Reply of Mr. Totzek of the Heinrich Koppers Company of Essen, Germany, to a letter by the North German Coal Control, May 2, 1947. Translation of a document found on TOM Reel 238, Part A.	0001-0008
T-462	Ackermann, Dr.: Latest German Developments on the Gas Phase. Gasoline Synthesis at Middle Pressures, 1942-1945. PB 82,060. Translation of a document found on FIAT Reel X-116, Frames 1717-1787.	0009-0018

ITEM

FRAMES

Bureau of Mines Translations: - Contd.

T-463 Duftschmid. Three papers on the Duftschmid Oil Circulation Process.
I. July 25, 1941. 4 pp. II.
Brief Report on the Hydrocarbon Synthesis from Carbon Monoxide and Hydrogen by the Oil Circulation Process. Oct. 9, 1939. 3 pp.
III. State of Experiments on Alcohol Synthesis by the Oil Circulation Process. August 11, 1941. 11 pp. Translation of documents found on TOM Reel 134, Items I(b) 11; I(b) 12; I(b) 13.

0019-0035

T-464 Michael, Dr. The Status of Hydrocarbon Synthesis from CO-H₂ Mixtures. July 24, 1941. Translation of a document found on TOM Reel 164, Frames 143-153.

0036-0048

T-465 Boente. Solid Aromatics in the HOLD of Pitch Hydrogenation, Poelitz, July 15, 1941. Translation of a document found on TOM Reel 164, Frames 190-192.

0049-0051

T-466 The Koppers-Totzek Powdered Coal Gasification. (A paper read by Friedrich Totzek, July 2, 1947, in Essen). Umschau, Vol. 66/67, p. 363.

0052-0056

T-467 Frese. Hydrogenation of Bituminous Coal LTC Pitch. (From Dr. E. L. Frese's files, Main Laboratory, Ruhrol G.m.b.H., Bottrop). Dec. 1944.

0057-0105

T-468 Kolbel. Hydrocarbon Synthesis with an Iron Catalyst. Sept. 13, 1940. Translation of a document found on TOM Reel 178, Frames 2627-2642.

0106-0126

ITEMFRAMESBureau of Mines Translations: Contd.

- T-469 Roelen, Dr. Hydrocarbon Synthesis with Iron Catalysts. Ruhrchemie A.G., Sept. 13, 1940. Translation of a document which appears on TOM Reel 178, Frames 2643-2669. 0127-0147
- T-470 Three papers by Otto. I. Operating Directions for Starting the Producer. Nov. 7, 1941. 6 pp. II. Operating Directions for the Producer Plant: Boehlen, Feb. 7, 1942. 10 pp. III. Operations for Stopping the Gasifiers, Second Edition. Boehlen, Aug. 30, 1943. 8 pp. incl. 2 graphs. Translation of documents which appear on TOM Reel 12, Item 33. 0148-0171
- T-472 Donath, Dr. E.E. Calculation of Hydrogenation of Naphthenes. July 27, 1938. High Pressure Experiments, Ludwigshafen 558. 0172-0179
- T-473 Günther. Refining of Liquid Phase Gasoline from Scholven. March 25, 1942. High Pressure Experiments, Ludwigshafen 558. 0180
- T-474 Three papers on the Aromatics-Naphthenes Equilibrium. I. Aromatics-Naphthenes Equilibria Curves. May 22, 1943. Peters II. The Production of Aromatics-Naphthenes Equilibria on the Nickel-Tungsten Catalyst 6718. Feb. 1940. 5 pp. and 4 curves. Peters. III. The aromatics-Naphthenes Equilibrium on the Tungsten Sulfide Catalyst 5058. May 25, 1943. 1 p. and 1 curve. Peters and Trofimow. Translation of documents which appear on TOM Reel 173, Frames 699-702. 0181-0192

T.O.M. Reel 279

ITEM

FRAMES

Bureau of Mines Translations: Contd.

T-475 Brief summaries of three papers on Splitting Hydrogenation. I. Splitting Hydrogenation Catalysts with HF Treated Alumina as Carriers. June 12, 1941. Rotter. Document appears on TOM Reel 173, Frames 483-488. II. Tungsten-Free Splitting Catalysts of the SiO_2 - Al_2O_3 - Fe_2O_3 Mixtures Treated with HF. May 1944. Gunther. Document appears on TOM Reel 173, Frames 401-408. III. The Splitting Hydrogenation of DHD Residues. Feb. 1, 1943. Gieg and Simon. Document appears on TOM Reel 173, Frames 366-392.

0193-0199

T-476 Peters and Gunther. Upper Limits of N and Phenol Contents and Lower Limits for the Aniline Point of 6434 Injection. Dec. 17, 1940. Translation of a document which appears on TOM Reel 173, Frames 642-644.

0200-0202

T-478 Connection between Nitrogen Content of Oils and their Splitting Hydrogenation Ability (SPLITABILITY). Three papers by Gunther, dated March 23, 1942, Jan. 8, 1943, July 13, 1943. Translation of documents appearing on TOM Reel 173, Frames 633-641, 621-628, and 565-567.

0203-0227

T-479 Gunther, Hartmann and Simon. Replacing of Terrana in 6434 by Synthetic Silicates. Sept. 21, 1939. Translation of a document appearing on TOM Reel 173, Frames 549-553.

0228-0230

ITEMFRAMESBureau of Mines Translations: Contd.

- T-480 Peters and Gunther. Terrana-Zinc Sulfide-Tungsten and Terrana-Zinc Sulfide-Molybdenum Catalysts for Splitting Hydrogenation. Dec. 11, 1939. Translation of a document which appears on TOM Reel 173, Frames 541-548. 0231-0235
- T-482 Composition and Preparation of 6434 Catalyst. May 10, 1944. Translation of a document which appears on TOM Reel 173, Frame 409. 0236-0237
- T-484 Refining Catalysts 7525, 7675, 7360, 7846. Nov. 1940. Translation of a document which appears on TOM Reel 173, Frames 198-199. 0238-0239
- T-485 Gunther. Prehydrogenation Catalysts. The Use of 8376 Prehydrogenation Catalyst (Alumina-W-Ni) for Various Feeds. Oct. 1942. Translation of a document which appears on TOM Reel 173, Frames 320-328. 0240-0241
- K-3 Pier, M. Hydrogenation Gasolines. Effect of Raw Materials, Catalysts, and Operating Procedures. Taken from Angewandte Chemie, Vol. 51 (1938), pp. 603-608. 0242-0265
- K-4 Thibaut, Louis. Development of the Technique of Hydrogenation of Solid Fuels and of Their By-Products. (Paper presented by M. Thibaut, Director of the Compagnie Francaise des Essences Synthétiques, at the XX Congress of Industrial Chemistry, Paris, Sept. 22-28, 1946). Chimie et Industrie, Vol. 59 (1948), pp. 548-551 0266-0279

ITEMFRAMESBureau of Mines Translations: Contd.

- K-5 Naumann, Friederich Karl. - The Effect of Highly Compressed Hydrogen Upon Unalloyed Steel. Translation of an article appearing in Stahl und Eisen, Vol. 57, 1937, pp. 889-899. 0280-0318
- K-6 Naumann, F.K. The Effect of Alloying Additions on the Resistance of Steel to Hydrogen under High Pressure. Translation of an article appearing in Stahl und Eisen, Vol. 58, 1938, pp. 1239-1250. 0319-0363

2 Sinclair Refining Company Translations:

- SR-4 Translation Book 208. Cracking of Shale Tars with Aluminum Chloride. By N. I. Zelenin and N.N. Koschleva. Translation of a document on TOM Reel 255, Combustible Shales, No. 3 (1934), pp. 35-41. 0364-0374
- SR-5 Translation Book 211. Cracking and Hydrogenation of Estonian and Kashpirian Shale Tars. N.D. Tilichcnev and G.N. Sledzhicv. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. 2, No. 2 (1931), pp. 3-15. (Sinclair translated only part of the article.) 0375-0384
- SR-6 Translation Book 210. Thermal Decomposition of Gdov Shales under Hydrogen Pressure. By V.P. Tsybasov, S.A. Dymshits and I.S. Levit. Translation of a document found on TOM Reel 255, Combustible Shales, No. 4 (1935), pp. 82-87. 0385-0394

T.O.M. Reel 279

ITEM

FRAMES

Sinclair Refining Company Translations: Contd.

- SR-7 Translation Book 212. Preparation of Octyl Acetate and of Acetic Esters of Secondary Alcohols with More than Eight Carbon Atoms. Translation from a document found on TOM Reel 72, Item 78. 0395-0417
- SR-8 Translation Book 216. The Interaction of the Sulfonic-Acid Chlorides, Formed by Means of Sulfochlorinating Aliphatic Hydrocarbons with Ammonia and Ammonium Derivatives. By Dr. Asinger, Dr. Ebeneder, Dr. Boeck, Dr. Schmidt. Jan. 1941. Translation of a document found on TOM Reel 21, Bag 3045, Item 25, Frames 250000451-484. 0418-0439
- SR-9 Translation Book 219. The Constitution of the Mepasin Sulfonates. By Dr. Asinger. Oct. 29, 1941. Translation of a document found on TOM Reel 21, Frames 240000438-240000450. 0440-0450
- SR-10 Translation Book 222. Preparation Character and Capillary-Chemical Properties of Hexadecane Sulfonates and Sulfates. By Drs. Asinger, Eckhardt, and Ebeneder. Translation of a document found on TOM Reel 21, Bag 3045, Item 26, Frames 260000485-504. 0451-0463
- SR-11 Translation Book 223. Stabilization and Refining of Shale-Tar Benzine by Hydrogenation. By A.D. Petros, E.A. Rozhiltzeva, and D.N. Andreyev. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. IV, No. 5, (1933), pp. 459-469. 0464-0474

ITEMFRAMESSinclair Refining Company Translations: Contd.

- SR-12 Translation Book 224. Determination of the Hydrocarbon Groups in Shale Benzine. By V.V. Chelintsev and A.P. Sibertsev. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. 4, No. 6 (1933), pp. 573-577. 0475-0481
- SR-13 Translation Book 226. Destructive Hydrogenation of Kashpir Tar. By S.S. Nametkin, F.I. Semin and E.F. Rudakova. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. IV, No. 6 (1933), pp. 598-605. 0482-0490
- SR-14 Translation Book No. 228. Catalytic Desulfurization of Kashpir Tar Shale Benzines in the Presence of Hydrogen under Atmospheric Pressure. By A.S. Broun. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. 5, No. 3 (1934), pp. 267-273. 0491-0497
- SR-15 Translation Book No. 229. Desulfurization of Shale Benzines by Hydrogenation in the Presence of Catalysts. By Nametkin, S.S., Semin, P.I., Makover, S.B. and Tziba, A.N. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. 5, No. 4 (1934), pp. 333-357. 0498-0525
- SR-16 Translation Book 241. Hydrogenation of the Neutral Kerosene Fraction of Gdov Shale Tar. By Klukvin, N.A., Polozov, R. Ph., and Pheophilov, E.E. Translation of a document found on TOM Reel 255, Chemistry of Solid Fuels, Vol. 6, No. 4 (1935), pp. 340-347. 0526-0535

T.O.M. Reel 279

ITEM

FRAMES

Sinclair Refining Company Translations: Contd.

SR-17. Translation Book 242. Phenols from Primary Tars and Their Stabilizing Influence upon Shale Benzines in Comparison with Synthetic Inhibitors. By N.V. Ershov. Translation of a document found on TOM Reel 255, Journal of Applied Chemistry (USSR), Vol. XII, No. 6 (1939), pp. 875-877. 0536-0539

Translation Book 169. Detailed Discussion of Meiller Operation on Oil Shale at Balingen. (Building Project). Translation of a document found on TOM Reel 123, Frames 85-121. 0540-0550

Translation Book 174. Dewaxing of Crude Oil with Solvents in the Liquid Phase for the Production of Cold Resistant Oils. Report by Dr. J. Moos. Translation of a document found on TOM Reel 113, Document 10, Item 1. 0551-0580

Translation Book 176. The Refining of Petroleum and Lignite-Tar Fractions with Liquid Hydrofluoric Acid to Produce Diesel-Fuel, Lubricants and Fuel Oil for the Armed Forces. Federal Institute for Petroleum Research, Institute for Technology, Hannover, July 7, 1944. Translation of a document found on TOM Reel 113, Item 6. 0581-0601

ITEMFRAMESSinclair Refining Company Translations: Contd.

- Translation Book 196. Flow Sheet. Preparation of HF Catalyst. Translation of a document found on TOM Reel 195, Part 12, Doc. 9, Frame 31504. 0602-0604
- 3 Detection of Iso- and Alicyclic Compounds in Saturated Hydrocarbon Mixtures. By Dr. Dornow, Petroleum Institute of Hannover Technical School, July 7, 1944. (Translation by Standard Oil Development Co., from a document found on TOM Reel 73, Item 5, Frames 587-607. 0605-0610
- 4 Refining of Light Oil from Low Temperature Carbonization of Coal. By W. H. Oppelt. 0611-0619
- 5 Azienda Carboni Italiani. Description of the Plant. (Translation of an Italian document). 0620-0653
- 6 A chronological summary of and comments on Dr. Michael's Liquid Phase Process. (Schaumfahrweise). By L. W. Alberts. 0654-0662
- 7 Report of "Fouchers" on CO+H₂ Synthesis. (I.G. Farben), October 1947. Section II of Part I. Oil Recycle Process. Comments by L. W. Alberts. 0663-0666
- 8 Report for the FIAT consisting of a letter and drawing by Dr. Winkler on the subject of "Vergasung von feiner Kohle nach dem Verfahren von Dr. Winkler". (Carburation of coal dust according to the Winkler Process) 0667-0668
- 9 Report by Dr. Fr. Winkler entitled: "Historische Entwicklung der Vergasung von feinkörnigen Kohlen nach dem Verfahren von Fritz Winkler." (Historical Development of the Gasification of Fine Coal According to a Process Developed by Fr. Winkler.) Part I. 0669-0720

<u>ITEM</u>	<u>FRAMES</u>
10	Report by F. Halle, L. Lorenz and G. Wietzel entitled: "Rontgenographische Untersuchung der Carbidierung von Nickelpräparaten im CO-Strom zwischen 140° and 250°." (X-Ray Examination of the Carbidization Process of Nickel Preparations in CO Current between 140° and 250°.) Part II. 0721-0739
11	A group of German memos relating to the above report. Included are memos: 70, 71, 72, 73, 74, 75, 78, 84, 93, 94, 103, 104, 105 and 114. 0740-0753
12	"La Synthese CO+H ₂ à I.G. Farben. 3 ^e Partie. Les Essences de Polymerisation." (The Synthesis of CO+H ₂ at I.G. Farben. Part III. Polymer Gasolines.) Included in this paper are the following reports: 1. "Magnesiumphosphatkontakt." (Magnesium phosphate catalyst.) 4 pp. By Dr. Schütze. 7/14/47. 2. "Versuche zur technischen Herstellung des Polymerbenzinkontaktes." (Investigations on the technical production of polymeric gasoline catalysts.) 1 p. By Dr. Schütze. 7/14/47. 3. "Polymerbenzinkontakt." (Polymeric gasoline catalyst.) 1 p. By Dr. Raße. 8/28/47. 4. "Polymerisationsanlage Schwarzheide. I. Mitteldruckanlage. II. Hochdruckanlage." (Polymerisation Installations at Schwarzheide. I. Middle Pressure Installation. II. High Pressure Installation.) 4 pp. and 1 diagr. By Dr. Haubach. 7/15/47.

ITEM

FRAMES

5. "Versuche zur homogenen Verteilung von Phosphorsäure auf aktivierten Holzkohlen." (Investigations on the Homogeneous Distribution of Phosphoric Acid on Activated Charcoal.) 9 pp. incl. 2 tables and 1 diagr. By Dr. Münch. 4/11/38.
6. "Über das Klopverhalten von Fischergas-Polymerbenzin." (The Knock Behavior of Fischer Gas Polymeric Gasoline.) 11 pp. incl. 4 tables. By Dr. Münch. 4/14/1938.
- 13 Report entitled: "Die Isosynthese" (Isosynthesis) by Helmut Pichler and Karl-Heinz Ziesecke from the Kaiser-Wilhelm Institut für Kohlenforschung, Mülheim.

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