

INDEX - T.O.M. REEL 302
(Original Designation FIAT Reel R-25)
PB L73555

Documents taken from I.G. Farbenindustrie A.G.

Frames

- 2635-2643 Comparison of the large-scale industrial hydrogenation of butynediol solution with aldol hydrogenation. Report by Schmidt, dated Nov. 24, 1943. (One graph attached.)
- 2644-2648 Laboratory experiments for preventing the frothing of butyne- and butanediol solutions. Report by Schmidt, dated Dec. 16, 1943.
- 2649-2661 Hydrogenation of butynediol at 300 and 700 atm. Report by Dr. Haag, Dr. Reindel, Marl and Dr. Adam, dated May 10, 1944. (One diagr. and one graph attached.)
- 2662-2673 Experiments with polymerized chloroprene in coating mixtures for lining of piping and cells for alkali chloride electrolysis. Report by Denninger and Kunzer, dated Aug. 20, 1943. (Four tables attached.) (Poor reproduction.)
- 2674-2675 Butynediol centrifuging tests with Westphalia-2-chamber separators. Report dated Aug. 23, 1944.
- 2676-2678 List of by-products of the Reppe-process. Report by Moller, dated Dec. 30, 1943.
- 2679-2695 Compilation of experiences concerning the polymerization of Buna "S", Type 3. Report by Dr. Teupel, dated Jan. 21, 1944. (Nineteen figures included in report.)
- 2696-2769 Chemical and technical fundamental of the buna synthesis. Report dated May 8, 1944. (Complete report consisting of thirty-three pages of text and eleven pages of diagrs. is reproduced on Frames 2725-2769. Frames 2696-2724 contain incomplete reproduction.)
- 2770-2776 The processing of Janina-coal to gasoline and middle oil under 600 atm. Report by Hupfer and Leonhardt, dated Mar. 13, 1944. (Seven tables included with report.)
- 2777-2787 Balance of starting material consumed and yields obtained in the hydrogenation of coal. Report by Holscher, dated Feb. 11, 1944. (Six tables, two attachments, two pages of graphs and one data sheet attached.)

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- 2788 Influence of the fineness of the coal on the yield in the sump phase. Report by Rank, dated Feb. 8, 1944.
- 2789-2794 Influence of the composition of coal on its behavior in the hydrogenation. Report by Hupfer, dated Jan. 27, 1944. (Three graphs attached.)
- 2795-2801 Ash balance in the sump phase of coal hydrogenation. Report by Rank, dated Jan. 25, 1944. (Two tables and three graphs attached.)
- 2802-2805 Regulation of the hydrogenation of coal. Report by Rank, dated Jan. 31, 1944. (One table attached.)
- 2806-2808 Discussion of results of coal hydrogenation obtained with small apparatus. Conference report by Leonhardt, dated Oct. 25, 1943.
- 2809-2811 Partially hydrogenated coal. Report dated Jan. 21, 1943. (Two pages of handwritten notes attached.)
- 2812-2817 Briquet binding agent and its manufacture. Conference report by Rank, dated Mar. 3, 1942.
- 2818-2823 Coke production. Conference report by Bähr, dated Dec. 6, 1941.
- 2824-2827 The low-temperature carbonization of coal. Report by Braus, dated Nov. 25, 1941.
- 2828 Production of electrode coke from coal. Report by Gieg and Rank, dated Jul. 26, 1941.
- 2829-2832 Production of primary bitumen for the manufacture of electrode coke. Report by Hupfer, dated Jul. 25, 1941. (One data sheet and one diagr. attached.)
- 2833-2845 Hydrates of gases. Report by Nonnenmacher, dated Jun. 30, 1942. (Three tables and three pages of graphs attached.) (See also Bureau of Mines Translation T-386 reproduced on T.O.M. Reel 274, Frames 1019-1025.)
- 2846-2856 Hydrogenation processes. Report by Wolfram and Schunck, dated Jun. 15, 1942. (Seven pages of graphs attached.)

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- 2857-2875 Testing of asphalts. Report by Wickert, dated Apr. 10, 1942. (Ten tables, one page of diags., one graph and one attachment included with report.)
- 2876-2881 The influence of liquid oxygen on acetylene. No author or date given.
- 2882-2909 The determination of monovalent and of bivalent copper in copper solutions from carbon monoxide washing. Report by Dr. Stefan Werner, dated August 1942. (Numerous tables and graphs included in report.)
- 2910-2914 The stabilization of gasoline prior to distillation. Report by Becker of conference held on Oct. 4, 1944. (Page of handwritten diags. attached.)
- 2915-2918 Distillation and stabilization processes. Report by Wilke, dated Oct. 4, 1944. (Two diags. attached.)
- 2919-2923 Centrifuging of tars and sump-phase sludges from tars. Report dated June 7, 1944. (Two tables attached.)
- 2924-2936 Rapid potentiometric determination of basic nitrogen in middle oils. Report by Wittmann, dated Aug. 21, 1943. (Graphs and tables included in report.)
- 2937-2947 The application of the turbo compression in hydrogenation plants. Report by Schönjahn, dated Jul. 16, 1943.
- 2948-2969 Computation of the specific heat c_p of gaseous tetrahydrofuran from the Raman spectrum. Report by Weissweiler, dated Feb. 6, 1939. (Seven tables, one graph and two photos included with report.)
- 2970-3004 The role of oxygen as activator and deactivator in polymerization processes. Report by Heuch and Hopff, dated Apr. 1, 1941.
- 3005-3017 Stage of development of wood saccharification according to the Scholler method. Report by Hegelmann and others, dated Dec. 31, 1938.
- 3018-3543 The thermodynamics of the exchange of heat and material in applied engineering. Reproduction of a book by Werner Matz, dated 1944.

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(The following documents are on the production of chlorine by I.G. Farbenindustrie A.G. in various plants.)

- 3544-3558 The electrolytic production of chlorine in novel mercury cells. Rough draft of a report which contains numerous photos, diags. and a patent suggestion. No author or date given.
- 3559-3599 The electrolysis of water in alkaline solution with nickel electrodes of various conditions. Dissertation by Herta Schmid on work done at the Technische Hochschule, Stuttgart during 1939-1940. (Tables, graphs and diags. included in report.)
- 3600-3604 Electrolysis, influenced by magnetic fields. Report by Honsberg, dated Jul. 24, 1940. (One diagr. attached.)
- 3605-3613 Improvement of the quality of crude graphite carbons. Report by Peter, dated Mar. 13, 1940.
- 3614-3617 For the determination of free chlorine in phosgene gas and the determination of hypochlorite in alkali chloride sols, analytical methods are used which dispense with the use of iodine. Report by Dr. Specht and Dr. Hornig, dated Apr. 8, 1940.
- 3618-3621 Removal of hydrogen from chlorine. Report dated Oct. 1, 1940. (One table attached.)
- 3622-3629 Production of highly concentrated chlorine from waste chlorine. Report by Pattok, dated Jul. 8, 1940. (Three tables included in report.)
- 3630-3635 Reduction of organic-polysulfides with sodium amalgam. Report by Spielberger, dated Apr. 21, 1941.
- 3636-3639 Experiments for the purification of crude zinc salt solutions by electrolysis with mercury cathodes or by reaction with zinc amalgam. Report by Marin, dated May 12, 1941.