

INDEX -- T.O.M. REEL 295  
(Original Designation FIAT Reel K-28)  
PB 70,185

Frames

- 5734-6080 Plant research in connection with the gasoline synthesis. Monthly reports of the plant laboratories, Feb. 1938-March 1940, Ruhrchemie A.G., Oberhausen-Holtten. (Besides the routine work for the supervision of the plants, the following special tasks are also reported: Tests with gasolines, Diesel oils, and paraffins.)
- 6081-6098 Gasoline for the polymerization of lubricating oil. Report dated Aug. 13, 1941, Ruhrchemie A.G., Oberhausen-Holtten. (13 pp. of tables and 2 pp. of curves attached.)
- 6099-6119 Catalytic cracking of hydrocarbons. (Catalyst investigation.) Report dated June 20, 1941, Ruhrchemie A.G., Oberhausen-Holtten. (14 tables and 9 pp. of graphs attached.)
- 6120-6145 Synthesis of lubricating oil. Report signed by Clar, dated May 11, 1941, Ruhrchemie A.G., Oberhausen-Holtten. (14 pp. of curves and 3 tables attached.)
- 6146-6159 Production of olefins from paraffins by substituting halogens and by separating hydrogen halide. Report dated March 31, 1941, Ruhrchemie A.G., Oberhausen-Holtten. (Five tables and 2 pp. of curves attached.)
- 6160-6164 Catalytic cracking of petroleum products. Report dated March 12, 1941, Ruhrchemie A.G., Oberhausen-Holtten. (One table and curve attached.)

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- 6165-6170 Influence of the temperature of decomposition of the catalyst on the activity in the aromatization. (Catalyst composition: Alumina and chromium oxide.) Report signed by Rotfig, dated Oct. 25, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Two tables in the form of graphs attached.) (Reproduced also on T.O.M. Reel 289, Frames 1788-1793 and T.O.M. Reel 290, Frames 2296-2300A.)
- 6171-6190 After-treatment of fractions of Dubbs cracked gasoline with boron phosphate and granosil. Report signed by Spiske, dated Oct. 7, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Three tables, one graph and seven pages of curves attached.) (Reproduced also on T.O.M. Reel 290, Frames 2301-2321.)
- 6191-6195 Test with olefins on the duration of polymerization with original Ipatieff catalyst and with phosphoric acid catalyst. Report signed by Spiske, dated Sept. 27, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Reproduced also on T.O.M. Reel 290, Frames 2357-2361.)
- 6196-6209 Addition of  $H_2SO_4$  to olefins of cracked gasoline for the production of detergents. Report signed by Rottig and Tramm, dated Sept. 4 and 5, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Economic calculation and one flow diagr. attached. Note of transmittal, signed by Tramm and dated Sept. 27, 1940, precedes report.)
- 6210-6215 Examination of gasoline. Internal routine report dated Sept. 9, 1940, Ruhrchemie A.G., Oberhausen-Holten. (One curve attached.)
- 6216-6220 Hot refining of gasoline (by treatment with cerusite). Report dated Sept. 5, 1940, Ruhrbenzin A.G., Oberhausen-Holten.
- 6221-6228B Changing the octane numbers of heat-refined gasolines by hydrogenation. Report signed by Gottschall, dated Sept. 5, 1940, Ruhrbenzin A.G., Oberhausen-Holten. (Four tables and two graphs attached.) (Reproduced also on T.O.M. Reel 292, Frames 3624-3631.)
- 6229-6231 Method for the solidification of normally liquid motor fuel. (Fuarde method referred to.) Confidential conference report signed by Schaub, dated Aug. 27, 1941, Ruhrchemie A.G., Oberhausen-Holten.

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- 6232-6259 Catalytic cracking of hydrocarbons (Diesel oil) to obtain gasoline. Confidential report signed by Stuhlfarrer, dated May 31, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Twelve tables and figures 1-12c, consisting of graphs and a diag., included with report.) (Report is also reproduced on T.O.M. Reel 291, Frames 2487-2514.)
- 6260-6261 Refining of gasolines at high temperatures with cerusite. Report dated Aug. 15, 1940, Ruhrchemie A.G., Oberhausen-Holten.
- 6262-6267 Comparison of octane numbers with values determined by the "Benzol Verband." Report dated Aug. 14, 1940, Ruhrbenzin A.G., Oberhausen-Holten. (One table and two pages of curves attached.)
- 6268-6271 Refining at high temperature and storing stability of iron gasoline. Report dated July 20, 1940, Ruhrbenzin A.G., Oberhausen-Holten. (One table and one page of curves attached.)
- 6272-6278 Device for measuring the formation of steam bubbles in gasoline. Report No. PB 101, June 24, 1940, Ruhrchemie A.G., Oberhausen-Holten. (One diag. and two pages of curves attached.)
- 6279-6281 Analysis of iron gasolines. Analysis report dated May 18, 1940, Ruhrbenzin A.G., Oberhausen-Holten.
- 6282-6286 Comparison of Ipatieff and Ruhrchemie polymerization catalysts. Report signed by Spiske, dated March 15, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Report is also reproduced on T.O.M. Reel 291, Frames 2515-2519.)
- 6287-6287A Two analysis records of gasolines. Dated March 18, 1940, Ruhrbenzin A.G., Oberhausen-Holten.
- 6288 Odor of test gasoline. Conference report signed by Lassmann, dated Feb. 26, 1940, Ruhrchemie A.G., Oberhausen-Holten.
- 6289-6296B Grades of activity of  $Al_2O_3$  as carrier material for catalysts. Confidential report signed by Spiske, dated Feb. 14, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Report is also reproduced on T.O.M. Reel 291, Frames 2900-2907.)

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- 6297-6369 Aromatization of aliphatic hydrocarbons. Confidential report signed by Kolling, dated Sept. 15, 1939, Ruhrchemie A.G., Oberhausen-Holten. (Nine tables and 26pp. of drwgs. and graphs attached.) (Incomplete report -- tables, drwgs. and graphs lacking -- reproduced on T.O.M. Reel 289, Frames 1628-1665.)
- 6370-6384 Report on the investigation of the isomerization of hydrocarbons. Report dated July 29, 1939, Ruhrchemie A.G., Oberhausen-Holten. (Six pages of graphs and 3 pages of diags. attached.)
- 6385-6392 Polymerization of unsaturated hydrocarbons. Report signed by Spiske, dated July 18, 1939, Ruhrchemie A.G., Oberhausen-Holten. (Four pp. of curves attached.)
- 6393-6401 Refining of gasoline over alumina. Report signed by Clar, dated Nov. 1, 1944, Ruhrchemie A.G., Oberhausen-Holten.
- 6402-6406 Hot refining of gasoline. (Catalysts for dehydration of alcohols in gasoline are reviewed, the review being based on two books: "Die Katalyse in der angewandten Chemie" by T. P. Hilditsch and "Technische Adsorptionsstoffe in der Kontaktkatalyse" by F. Krczil.) Report signed by Clar, dated June 13, 1944, Ruhrchemie A.G., Oberhausen-Holten. (Report is preceded by note dated June 26, 1944.)
- 6407-6408 Production of adipic acid from cyclohexane. Report signed by Rottig dated Feb. 26, 1944, Ruhrchemie A.G., Oberhausen-Holten.
- 6409-6413 Dehydrogenation of low molecular hydrocarbons in presence of halogen to form olefins. Experiments with heptane. Report signed by Rottig, dated Feb. 25, 1944, Ruhrchemie A.G., Oberhausen-Holten. (Report is also reproduced on T.O.M. Reel 289, Frames 1366-1370.)
- 6414-6418 Dehydrogenation of high molecular hydrocarbons (cetane) with halogens, in particular, bromine, to form olefins. Report signed by Rottig, dated Feb. 24, 1944, Ruhrchemie A.G., Oberhausen-Holten. (Report is also reproduced on T.O.M. Reel 289, Frames 1371-1375.)
- 6419-6420 Dehydrogenation of low molecular hydrocarbons, particularly hexane, heptane, octane and nonane. Report signed by Rottig, dated Feb. 24, 1944, Ruhrchemie A.G., Oberhausen-Holten.

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- 6421-6425 Dehydrogenation of hydrocarbons, particularly cetane. Report signed by Rottig, dated Feb. 22, 1944, Ruhrchemie A.G., Oberhausen-Holten.
- 6426-6434 Dehydrogenation of long chain paraffin hydrocarbons to form olefins. Report signed by Schreiber, dated Feb. 12, 1944, Ruhrchemie A.G., Oberhausen-Holten.
- 6435-6452B Carbonic acid in the circulation gas of the catalytic reduction for the production of Fischer-Tropsch catalysts. Report dated July 7, 1938, Ruhrchemie A.G., Oberhausen-Holten. (Five tables, two diags. and nine pages of graphs attached.)
- 6453-6458 Gas drying with glycol. Report signed by Tramm, dated April 6, 1938, Ruhrchemie A.G., Oberhausen-Holten. (One diag. attached.)
- 6459-6469 Increase of the oil yield from the primary products of the gasoline pressure synthesis. Report signed by Clar, dated Nov. 26, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Six pages of tables attached.) (Report is also reproduced on T.O.M. Reel 290, Frames 2183-2193.)
- 6470-6485 Production of lubricating oils from primary products of the gasoline pressure synthesis. Report signed by Clar, dated Oct. 31, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Eight pages of tables attached.) (Report is also reproduced on T.O.M. Reel 290, Frames 2277-2292.)
- 6486-6491 Production of oil stable against oxygen by addition of inhibitors before the synthesis. Report signed by Clar, dated Oct. 30, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Three tables attached.) (Report is also reproduced on T.O.M. Reel 290, Frames 2329-2334.)
- 6492-6494 Oil for German Armed Forces High Command (OKW). Report dated Oct. 24, 1940, Ruhrchemie A.G., Oberhausen-Holten.
- 6495-6515 Production of synthetic oils stable against oxygen by after-treatment with aluminum chloride and by sulfurization. Report signed by Clar, dated Aug. 20, 1940, Ruhrchemie A.G., Oberhausen-Holten. (Eight tables attached.) (Report is also reproduced on T.O.M. Reel 290, Frames 2392-2412.)

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6516-6523 Increase of the stability of lubricating oils in storage by means of beta-naphthylamine. Report signed by Clar, dated Dec. 14, 1939, Ruhrchemie A.G., Oberhausen-Holten. (Three pages of tables and two pages of curves attached.) (Report is also reproduced on T.O.M. Reel 290, Frames 2004-2011.)

6524-6528 These frames plus T.O.M. Reel 296, Frames 6529-6532 make up complete report concerning the after-treatment of synthetic oil with granosil, aluminum chloride and catalyst oil and the transformation of the residues to granular form. Report signed by Clar, dated July 21, 1939, Ruhrchemie A.G., Oberhausen-Holten.