INDEX - T.O.M. REEL 297
(Original Designation FIAT Reel K-30)
PB L73587
Documents taken from Ruhrchemie A.G., Oberhausen-Holten

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7483-7516 Aromatization tests. Second report on the aromatization tests in the LT experimental plant. Report signed by Kolling, dated Feb. 8, 1941. (One table, two diagrs. and six graphs attached.)

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7593-7595 Synthesis of light hydrocarbons. Report signed by Dahm, dated Feb. 15, 1939. (One diagr. attached.) (Report is also reproduced on T.O.M. Reel 290, Frames 2140-2142.)

7596-7599 Separation of sodium carbonate soaps from soap mixtures containing hydrocarbons. Ruhrchemie Patent Application R 640, dated Nov. 4, 1942.
(Separation of soaps from reaction mixtures which contain hydrocarbons by a high excess of alcohol and water.)

7600-7603 Apparatus for determining the viscosity of liquids. Report by Heinrich Tramm, dated Oct. 21, 1942. Addition to German Pat. Appl. T 57,756 IXb/42 l. (One diagr. attached.)
(A viscosimeter with tubes so small that a drop is sufficient for filling.)

7604-7605 Level indication for liquids in containers. Ruhrchemie Patent Application R 638, dated Oct. 21, 1942.
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7617-7619 Process for producing solid hydrocarbons by reacting carbon monoxide with hydrogen at ordinary temperatures. Additional application for a patent J 63,879 IVd/12 o, Feb. 20, 1939.
Inventors: Kotzschmar and others.

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7620-7623 Production of low-boiling liquid hydrocarbons. Additional application for a patent J 63,778 IVd/12 o, Feb. 11, 1932.

7624-7627 Production of ammonium nitrate which will not harden during transportation or storage. Ruhrchemie Patent Application R 633, dated Sep. 14, 1942.
(Pre-cooling ammonium nitrate to about 80°-90° C on a cooling drum and final cooling and granulation.)

7628-7630 Adjustment of uniform packing heights in catalytic processes. Ruhrchemie Patent Application R 632, dated Aug. 31, 1942.
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7631-7632 Preliminary treatment of coal gases which are to be highly compressed. Ruhrchemie Patent Application R 631, dated Aug. 28, 1942.
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7633-7634 Increasing the yield of oxygen-containing products in the catalytic hydrogenation of carbon monoxide. Ruhrchemie Patent Application R 629, dated Aug. 25, 1942.
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7635-7637 Stabilization of synthetic lubricating oils. Ruhrchemie Patent Application R 628, dated Aug. 20, 1942.
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7638-7640 Dehydrogenation of saturated aliphatic hydrocarbons. Ruhrchemie Patent Application R 627, dated Aug. 20, 1942.
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7648-7650 Comparison viscosimeter for the determination of the degree of viscosity or dilution of lubricants. Ruhrchemie Patent Application R 624 by H. Tramm, dated Jul. 23, 1942.

7651-7652 Production of ammonium nitrate-mixed fertilizers. Ruhrchemie Patent Application R 623, dated Jul. 22, 1942.

7653-7655 Packing of catalysts into catalytic furnaces. Ruhrchemie Patent Application R 622, dated Jun. 24, 1942.
(Catalyst packing by insertion of a paraffin layer floating on water.)

7656-7662 Packing of catalysts into catalytic furnaces. Ruhrchemie Patent Application R 621, dated Jun. 8, 1942.
(Catalyst packing by introducing a paraffin layer.)
(Five diagrs. attached.)

7663-7667 The operation of exothermic catalytic furnaces. Ruhrchemie Patent Application R 620, dated Jun. 6, 1942.
(Catalyst furnace with vertical tubes not fully packed.)
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7668-7672 Catalyst furnace for exothermic gas reactions, especially carbon monoxide hydrogenation. Ruhrchemie Patent Application R 619, dated Jun. 6, 1942.
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7673-7677 The production of uniformly granulated calcium ammonium nitrate. Ruhrchemie Patent Application R 618, dated Jun. 5, 1942.
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7683-7685 The dehydration of gases. Ruhrchemie Patent Application R 615, dated May 26, 1942.

7686-7689 The separation of branched fatty acids from mixtures of isomeric and homologous fatty acids. Ruhrchemie Patent Application R 614, dated May 14, 1942.
(Separation of branched fatty acids from isomeric and homologous mixtures by partial saponification.)

7690-7692 High pressure distillations. Ruhrchemie Patent Application R 612, dated May 11, 1942.
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7693-7697 Dehydrogenation of hydrocarbons. Ruhrchemie Patent Application R 611, dated May 6, 1942.
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7698-7701 The regulation of temperature in relation to other temperatures. Ruhrchemie Patent Application R 610, dated May 6, 1942.
(Temperature regulation of distillation columns and similar apparatus by air thermometers connected opposite each other.)

7702-7706 Process for separating isomeric fatty acid mixtures. Ruhrchemie Patent Application R 609, dated May 1, 1942.
(Separation of isomeric fatty acids by partial saponification and extraction.)

7707-7709 Double walled protective hood for gasoline tanks, etc. Ruhrchemie Patent Application R 607, dated Mar. 11, 1942.

7710-7714 Cellular encasing of liquid motor fuels. Report dated Feb. 19, 1942.

7715-7718 Production of methane from mixtures of oxides of carbon with hydrogen. Ruhrchemie Patent Application R 604, dated Feb. 2, 1942.
(Methanization with nickel catalysts which contain MgO as activator.)

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7719-7724 Conversion of sulfur (bound organically in technical gases, like coke-oven gases) into an easily absorbable form. Ruhrchemie Patent Application R 603, dated Feb. 2, 1942.
(Splitting-off of organic S compounds with copper catalysts which contain additions of calcium, magnesium or aluminum.)

7725-7727 Conversion of sulfur (bound organically in technical gases, like coke-oven gas) in an easily absorbable form. Ruhrchemie Patent Application R 602, dated Feb. 2, 1942.
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7728-7731 Production of pure alcohols. Ruhrchemie Patent Application R 601, dated Jan. 27, 1942.
(Separation of olefin-containing oils in alcohol production by addition of water gas. Addition to German Pat. Appl. R 106,852 IVd/12 o.)

7732-7735 Production of ethers used as solvents or softening agents. Ruhrchemie Patent Application R 600, dated Jan. 26, 1942.
(Ethers from OXO compounds used as solvents or softening agents.)

7736-7739 Dehydrogenation of higher molecular hydrocarbons. Ruhrchemie Patent Application R 728, dated Sep. 30, 1944.

7740-7741 Production of mono- and dinitro derivatives of the naphthene series. Ruhrchemie Patent Application R 727, dated Sep. 29, 1944.

7742-7744 Process for nitrating toluene. Ruhrchemie Patent Application R 726, dated Sep. 29, 1944.

7745-7748 Regeneration of thorium for catalyst production. Ruhrchemie Patent Application R 725, dated Sep. 15, 1944.

7749-7754 Reaction furnace with recuperative preheating, especially for the continuous combustion of H_2S in an excess of CO_2--containing gases to form S. Ruhrchemie Patent Application R 724, dated Aug. 31, 1944. (One diagr. attached.)

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7755-7758 Dechlorination of condensation and polymerization products of olefins obtained by the splitting of carbon monoxide hydrogenation products. Ruhrchemie Patent Application R 723, dated Aug. 3, 1944.

7759-7762 Production of high molecular hydrocarbon oils by condensation and polymerization of hydrocarbons. Ruhrchemie Patent Application R 722, dated Aug. 1, 1944.

7763-7772 Starting gasoline engines at low temperatures. Ruhrchemie Patent Application R 721, dated July 24, 1944. (Addition to German Pat. Appl. R 115,636 Ia/46 a 7.) (Two diagrs. attached.)

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7782-7790 (Duplicate) Catalytic cracking of carbon monoxide hydrogenation products into olefinic, low-boiling hydrocarbons. Ruhrchemie Patent Application R 720, dated July 20, 1944. (Two graphs attached.)

7791-7796 Fuel injection for starting injection engines. Ruhrchemie Patent Application R 719, dated July 12, 1944. (Addition to German Pat. Appl. R 115,636.) (One diagr. attached.)

7797-7800 Use of fuel vapors that form in fuel tanks and pipes. Ruhrchemie Patent Application R 718, dated June 16, 1944. (Addition to German Pat. Appl. R 110,972 Ia/46 c 2.) (Two diagrs. attached.)

7801-7804 Improvement of synthetic lubricating oils. Ruhrchemie Patent Application R 717, dated June 8, 1944. (Addition to German Pat. Appl. R 108,370 IVd/23 b.)

7805-7809 Testing the oxygen stability of lubricating oils. Ruhrchemie Patent Application R 716, dated May 18, 1944. (One diagr. attached.)

7810-7811 Improving the efficiency of existing cracking plants. Ruhrchemie Patent Application R 715, dated May 15, 1944.

7812-7815 Production of resins. Ruhrchemie Patent Application R 714, dated May 15, 1944.

7816-7817 Production of high molecular compounds from lower molecular olefins. Ruhrchemie Patent Application R 713, dated Apr. 28, 1944.

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7818-7821	Automatic sampling at low pressures. Ruhrchemie Patent Application R 712, dated Apr. 24, 1944. (One diagr. attached.)
7822-7825	Automatic dosing of exactly measured liquid volumes at greatly reduced pressures. Ruhrchemie Patent Application R 711, dated Apr. 4, 1944. (One diagr. attached.)
7826-7835	Process for dehydrogenating hydrocarbons with formation of aromatic substances. Ruhrchemie Patent Application R 710, dated Mar. 29, 1944. (Two graphs and one diagr. attached.)
7836-7838	Exhaling valve for gas-protection equipment. Ruhrchemie Patent Application R 709, dated Mar. 15, 1944. (Five diagrs. attached.)
7839-7841	Separating mixtures of sulfuric esters of higher molecular hydrocarbons on the one hand and paraffin hydrocarbons on the other hand. Ruhrchemie Patent Application R 707, dated Mar. 10, 1944. (Addition to German Pat. Appl. R 116,698 IVd/12 o.)
7842-7844	Removal of ashes from gas producers with moving grates. Ruhrchemie Patent Application R 706, dated Mar. 9, 1944. (One diagr. attached.)
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7850-7854	Manufacture of aliphatic carboxylic acids solidifying at low temperatures. Ruhrchemie Patent Application R 703, dated Feb. 4, 1944.
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7873-7877	Automatic permanent gas-sampling apparatus with adjustable volume. Ruhrchemie Patent Application R 694, dated Oct. 30, 1943. (One diagr. attached.)
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7884-7886	The increase of the resistance to aging of lubricating oils. Ruhrchemie Patent Application R 691, dated Sept. 9, 1943.
7887-7890	Removal of compounds containing oxygen from hydrocarbon mixtures. Ruhrchemie Patent Application R 690, dated Sept. 9, 1943.
7891-7892	Treatment of waste gases containing acid, especially nitrous gases. Ruhrchemie Patent Application R 689, dated Sept. 7, 1943. (Addition to German Pat. Appl. R 115,001 IVb/12 e.)
7893-7895	Separating mixtures of sulfuric esters of higher molecular hydrocarbons on the one hand and paraffin hydrocarbons on the other hand. Ruhrchemie Patent Application R 688, dated Aug. 25, 1943. (Addition to German Pat. Appl. R 116,698 IVd/12 o.)
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7903-7907	Activation of carbon monoxide hydrogenation catalysts. Ruhrchemie Patent Application R 686, dated Jul. 30, 1943.
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7921-7924	Olefin polymerization by means of metal halides. Ruhrchemie Patent Application R 682, dated Jul. 19, 1943.
7925-7926	Manufacture of carboxylic acids or their derivatives resulting from treatment with alkalis. Ruhrchemie Patent Application R 681, dated Jul. 15, 1943. (Addition to German Pat. Appl. R 115,996 IVa/23 d.)
7927-7928	Manufacture of carboxylic acids or their derivatives resulting from treatment with alkalis. Ruhrchemie Patent Application R 680, dated Jul. 14, 1943. (Addition to German Pat. Appl. R 115,996 IVa/ 23 d.)
7929-7931	Dechlorination of hydrocarbons. Ruhrchemie Patent Application R 679, dated Jul. 12, 1943.
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7955-7957 Removal of chromium from industrial products. Ruhrchemie Patent Application R 672, dated Jun. 21, 1943.

7958-7960 Valve with rubber jacketed gate. Ruhrchemie Patent Application R 671, dated Jun. 19, 1943.

7961-7964 Manufacture of iron catalysts for low temperatures. Ruhrchemie Patent Application R 670, dated May 20, 1943.

7965-7968 Manufacture of carboxylic acids or their derivatives from concentrated soap solutions. Ruhrchemie Patent Application R 669, dated Apr. 19, 1943.

7969-7972 Iron catalysts for producing primarily olefinic and oxygen-containing hydrocarbons during carbon monoxide hydrogenation. Ruhrchemie Patent Application R 667, dated Mar. 17, 1943.
(Iron catalyst with cerium, vanadium or manganese addition for obtaining higher olefin content.)

7973-7976 Starting gasoline engines at very low temperatures. Ruhrchemie Patent Application R 666, dated Mar. 11, 1943.
(Starting gasoline motors by spraying fuel directly into the cylinder.)

7977-7978 Incompletely reduced catalyst material. Report by Roelen, dated Mar. 11, 1943.

7979-7980 Suppression of foam formation during the washing of gas components. Ruhrchemie Patent Application R 664, dated Feb. 6, 1943.
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7981-7984 Production of hydrocarbons by catalytic carbon monoxide hydrogenation. Ruhrchemie Patent Application R 662, dated Jan. 30, 1943.
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7985-7988 Manufacture of calcium ammonium nitrate. Ruhrchemie Patent Application R 661, dated Jan. 28, 1943.
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7989-7991 Deliming of magnesium oxide. Ruhrchemie Patent Application R 660, dated Jan. 23, 1943.
(Purification of magnesium catalyst carrier with magnesium nitrate solution for removal of lime compounds.)

7992-7995 Testing apparatus for carrying out chemical reactions, especially high pressure reactions. Ruhrchemie Patent Application R 659, dated Jan. 21, 1943.
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7999-8003 Enrichment of the olefin content of hydrocarbon mixtures. Ruhrchemie Patent Application R 657, dated Jan. 14, 1943.
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8004-8006 Dehydrogenation of cyclic hydrocarbons. Ruhrchemie Patent Application R 656, dated Jan. 13, 1943.
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8007-8010 Catalytic addition of water gas to olefins. Ruhrchemie Patent Application R 655, dated Jan. 9, 1943.
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8011-8013 Preparation of carbon compounds containing oxygen by catalytic addition of water gas on olefins. Ruhrchemie Patent Application R 654, dated Jan. 8, 1943.
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8014-8016 Simplified and improved measurement of dusty and fine-grained products. Ruhrchemie Patent Application R 651, dated Dec. 24, 1942. (Two diagrs. attached.)

8017-8018 Treatment of waste gases containing acid, especially nitrous gases. Ruhrchemie Patent Application R 650, dated Dec. 23, 1942.
(Nitrous gases are mixed with ammonia and then precipitated in an electro-filter.)

8019-8023 Purification of synthetic fatty Acids. Ruhrchemie Patent Application R 649, dated Dec. 22, 1942.
(Extraction of fatty acids in the form of acid soaps prepared from them.)

8024-8027 Decomposition of mixtures consisting of fatty acids or fatty acid salts and neutral oils. Ruhrchemie Patent Application R 648, dated Dec. 18, 1942.
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8028-8032 Valve for tanks, especially for catalyst material. Ruhrchemie Patent Application R 645, dated Nov. 28, 1942.
(Valves for catalyst containers with sliding rods which have an adequate distance from the walls.)
(Three diagrs. attached.)

8033-8034 Aromatization and dehydrogenation of hydrocarbons. Ruhrchemie Patent Application R 643, dated Nov. 17, 1942.
(Alkalized chromium oxide-aluminum oxide catalysts contain an addition of manganese oxide.)

8035-8038 Aromatization or dehydrogenation of hydrocarbons. Ruhrchemie Patent Application R 642, dated Nov. 14, 1942.
(Chromium oxide-aluminum oxide catalysts with addition of alkali.)

8039-8041 Production of pure magnesium oxide suitable for the production of catalysts. Ruhrchemie Patent Application R 641, dated Nov. 11, 1942.
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8161-8171	Operation of a fuel plant at Rheinpreussen. Report signed by Krueger, dated Jan. 16, 1941. (One table and one graph attached.)
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8177-8182	Materials for storing the catalyst for hydrocarbon aromatization. Report signed by Rottig, dated July 11, 1939. (Two tables attached.) (Report is also reproduced on T.O.M. Reel 289, Frames 1774-1779 and T.O.M. Reel 290, Frames 2080-2085.)
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8202 and T.O.M. Reel 298, Frames 8203-8206.	Pressure synthesis of hydrocarbons. Report No. 4. By Herbert, dated Feb. 8, 1938. (One page of graphs attached.) (Part of report appears on T.O.M. Reel 298, Frames 8203-8206.)