APPENDIX A.

ORGANIZATION OF THE LURGI COMPANIES. (As of May 2, 1945)

The activities of the Lurgi Companies are carried on by four different Lurgi concerns:-

1) Lurgi-Gesellschaft für Chemie und Hüttenwesen
2) Lurgi-Apparatebau Gesellschaft
3) Lurgi-Gesellschaft für Wärmetechnik
4) Lurgi-Werkstätten G.m.b.H.

The capital of the Lurgi Companies is held 100% by the Metallgesellschaft, A.G., a company with a capital of 70,000,000 RM. The name Lurgi is derived from the original field of activity "Metallurgie". The Companies are directed by the following individuals:-

Director of all Lurgi Companies: Dr.Oetken who at the same time is a member of the Board of Directors of the Metallgesellschaft:-

Dr.Göhre
Dir.Klencke
Dr.Siecke
Dir.Behlert
Dr.Oetken.

Lurgi-Apparatebau Gesellschaft:

Dir.Räder
Dir.Gies
Dr.Oetken

Lurgi-Gesellschaft für Wärmetechnik m.b.H:

Directors:-
Dr.Oetken
Dr.G.Müller
Dir.Klan.

Principal Technologists:-
Low-temperature
Distillation of Fuels: Dr.Hubmann
Production of City &
Synthesis Gas: Dr.Danulat
Synthesis of Motor Fuels: Dr.Herbe
Power Plants: Dipl.Ing.Müller
Dr.Rueping.

Lurgi Werkstätlen G.m.b.H.

Dr.Räder
Dir.Büttcher
Dr.Oetken.

The activities of the Lurgi Companies are as follows:-

Lurgi-Gesellschaft für Chemie und Hüttenwesen:
Construction of Sintering Plants (Dwight-Lloyd)
" " Roasters
" " Sulphuric Acid Plants.
Apparatus for the Cellulose Industry.
Various Process for Lead and Zinc Smelters.

Lurgi-Apparatebau G.m.b.H.
Cottrell Electrical Precipitators for Gas Purification
Mechanical De-dusters.

Lurgi-Gesellschaft für Wärmetechnik m.b.H:-

a) Fuel Technology

Construction of low-temperature Carbonization Plants.
Gas Plants for Municipal Gas and Producer Gas.
Motor-Fuel Plants (Fischer Process)
Garbage-Disposal Plants.

b) Steam Engineering.

Evaporating Plants.
Drying Plants.
Crystallization Plants.
Plants for Treatment of Vegetable Oils and Fats.
Distillation Plants.
Extraction Plants.

c) Recovery of Solvents (Active Carbon).

APPENDIX B.

LABORATORIES OF METALLGESELLSCHAFT A.G.

MAIN RESEARCH (Z.F.)

Metal Laboratories. (Z.F.M.) in Niedernhausen/Taunus.

Director:- Prof. Dr.phil. E.Schmid.

a. Metals Department
Director:- Dr.E.Schmid (whereabouts unknown)

b. Alloys Department
Director:- Doz.Dr.phil.habil.G.Wassermann
(whereabouts unknown)

c. Technology.
Director:- Dr.phil.habil.k.Löhberg
(whereabouts unknown)

Fields of Activity:- Aluminium Alloys.

a. Castings (especially Silumin)

b. Forging Material (amongst others development of a copper-free forging alloy having the properties of Dur-Aluminium)

Zinc Alloys.

a. Castings

b. Forging Material.

Bearing Metals
Lead Alloys.

Chemical-Metallurgical Laborator ies (Z.F.C.)

Principal Office: Erbstadt.

Director: Doz.Dr.Ing.G.Roesner.

a. Department of Process Development in Erbstadt.

Director:- Dr.Ing.H.Ley
Sulphur & Sulphur Compounds.
Phosphorus & Phosphates
Clay Products.
Metallurgi:- Preparation and Smelting; for example, processing lean iron Ores.

b. Department of Surface Phenomena.

Director:- Dr.Ing.L.Schuster.
Chemical treatment of metal surfaces for purposes of corrosion prevention and facilitating shaping.

c. Department of Research and Service in Frankfurt am Main, Bockenbeimer Analage 45

Director:- Dr.Ing.habil.J.Fischer.

d. Amalytical Department
Frankfurt am Main, Bockenheimer Anlage 45.

Director:- Dr.phil. Th. Becker.

e. Department for Colloid Chemistry (Z.F.K.)

Director:- Dr.phil.Miedel
Research in Rubber, especially Revertex
Present Activity:- Plasticizer for Buna (Naftolen)

APPENDIX C.

RECENT METALLGESELLSCHAFT-LURGI PATENT APPLICATIONS OF POSSIBLE INTEREST TO PETROLEUM INDUSTRY.

Metallgesellschaft-Lurgi Serial Nos.

4262	Insecticides
4261	Carbonization and gasification of fuel and oil shale.
4257	Sulphur from Coking Ovens.
4243	Powder coking
4230	Cracking oils, tars, etc.
4228	
4227	Oxidation of aliphatic hydrocarbons.
4223	Thermal treatment of liquid and gaseous hydrocarbons.
4222	
4201	Process for oxidation of aliphatic hydrocarbons.
4190	Applying synthetic rubber to a solid base
4186	
4184	Combustion of H_2S and O_2
4182	Tar Cracking
4181	Shaft gasifier
4124	
4111	Isotope diffusion
4107	
4103	Preparation of alumina.
4100	Carbonization process
4090	Procedure and apparatus for mixing gases and liquids.
4087	Synthesis of hydrocarbons with iron catalyst at atmospheric pressure.
4085	Reduction (2 stage) of iron catalysts for CO hydrogenation.
4075	Removal of acids from synthetic fats.
4057	
4032	Production of hydrogenation catalyst.
4011	Process for reduction of iron catalyst.
4010	Oxidation products of predominantly paraffinic hydrocarbons.
3997	Process of making synthesis gas of low methane content.
3991	Process for reduction of iron catalysts.
3961	Carbonizing oven. Dumping oven with opening in side wall.
3960	Oven for carbonization of fuels.

3955 Preparation of hard coal in generator gas manufacture
3953 Carbonization apparatus for oil shale
3948 Lubricating medium
3945 Production of sulfur by reduction of (ore) roasting gases.
3937 Improving the corrosion resistance of protective coatings.
3933 Sulfur recovery.
3927 Coolant and lubricant for metal working.
3914 Preparation of fuel oil from carbonization tar.
3913 Preparation of Diesel oil and fuel oil from coal carbonization tar, shale tar, etc.
3896 Production of higher paraffins and olefinic hydrocarbons, addition of dilute synthesis gas.
3893 Apparatus for thermal conversion of gases under pressure.
3887 Synthesis of hydrocarbons with iron catalysts.
3879 Ship deck paint
3874 Gasification of fuels in shaft ovens.
3859 Separation of organic sulfur from gases under pressure.
3840 Preparation of de-poisoned city gas by hydrogenation
3810 Recovery of phenols.
3781 Recovery of hydrocarbon mixtures.
3767 Gasification of fuels in shaft ovens.
3761 Carbonization of high ash fuels.
3757 Carbonization of oil shale and similar high ash fuels
3738 Production of hydrocarbons by CO hydrogenation.
3734 Preservation of wood.
3707 Separation of organic sulfur from gas under pressure.

APPENDIX D.

Documents and Papers.

1. File:-

   Carbonization of Bituminous Coal,
   Krupp-Lurgi Reports
   1937 to Sept.1941.

2. File:-

   Ringwaltzen Press. Tech. Reports to 1942.

3. File:-

   E.T.4. Projected Plant at Heesch using air circulation
   1939-1944.

4. File:-

   Fischer-Tropsch Miscellaneous Projects at different
   Works including Japan.

5. Prints:-

   a) Recovery systems of Fischer-Tropsch plants,
      different arrangements.

   b) Flow Diagrams of Fischer-Tropsch yields
      by three recirculation systems.

   c) Miscellaneous Drawings of Experimental Plant.

6. Stenographer's Notebook

7. "Ergebnisse der Steinkohlenschwelung"

8. "Krupp-Lurgi-Kammer-Schwellanlagen"

9. Drawing of "Krupp-Lurgi-Steinkohlenschwelofen".

13. Directors of Lurgi Personnel 1945.

11. Description of Lurgi Process for manufacture of Synthetic Lubricating Oils.

12. Flowsheet of Lurgi Synthesis-Gas Plant.

13. Comparison of 8 processes of synthesis gas manufacture.

14. Flow diagram of gas-recirculation system of Lurgi hydrocarbon synthesis process.

15. Flow diagram and material balance of Lurgi H.P. gas-recirculation process of hydrocarbon synthesis, using catalyst.

16. Flow diagram and material balance of Lurgi H.P. gas-recirculation process of hydrocarbon synthesis using Fe catalyst.

17. Flow diagram and material balance of Lurgi H.P. gas - recirculation process of hydrocarbon synthesis, with special catalyst for high benzin yield.

18. Flow diagram of experimental hydrocarbon synthesis plant with iron catalyst.

19. Drawing of 500 mm. H.P. contact vessel.

20. " " catalyst reduction furnace.

21. " " 3 mm. H.P. contact vessel.

22. " " lamellar-type contact vessel.

23. Diagram of experimental H.P. synthesis plant for Ruhr-Benzin.

24. Drawing of experimental H.P. tubular oven.

25. Flowsheet for semi-technical experimental plant.

26. Experimental converter (70 atm. water pressure)

27. Lurgi-Hoesch negotiations on Kreislauf process.

28. Recovery of alcohols from A K - water (Hoesch)

29. The Lurgi Recirculation Process.

30. A plant for the removal of organic sulphur from synthesis gas.

31. High-temperature recirculation with cobalt catalyst.

32. Lurgi Process for Synthesis Gas production.

33. Project for converting the Wanne-Eichel Works to the Lurgi recirculation process.

34. Preparation of Paraffin Wax from Water Gas.

35. Medium Pressure Synthesis Scheme for Japan (Rumoi)

36. Two-stage process with cobalt and iron catalysts using water gas.

37. Iron catalyst synthesis.

38. Medium-Pressure Synthesis Scheme.

39. Large-scale work on the Lurgi recirculation process at Hoesch-Benzin.

40. Engineering Drawings for the Lurgi Pressure Generator and Plant at Böhlen.

41. Angaben über Sauerstoff Anlagen.

The above documents Nos.13 to 41 and others of related subject matters have been placed in CIOS Bags Nos.2706, 3499, 3500 and 4132 for safe-keeping and future reference, and have been reproduced in Series A, B and E microfilms of the Liquid Fuels and Lubricants CIOS Team and been deposited with the Secretary of the Interior, Washington, D.C., and with British Ministry of Fuel and Power, London.

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