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INDEX - MICROFILM - REEL - 65  
(Orig. Ident. Reel 36A)

2708 30/6/08 - Metallgesellschaft Lurgi - Frankfurt

1. Report of Test on Concordia Coal
2. Report of Test on Wiesche Coal
3. Report of Test on Oberschlesische Coal
4. Dwg. 200 612 Assembly of Pressure Generator
5. Unnumbered Dwg. Assembly of Pressure Generator

1481A 30/Opportunity - Slagging Gas Producers

1. Description of Thyssen-Galocsy Producers
2. Operating Report of Thyssen-Galocsy Producer
3. 4 Drawings of Thyssen-Galocsy Producer
4. Estimated cost of a Slagging Gas Producer Plant (Leuna)

1928A 30/4.03 - Ludwigshafen - Oppau

Material taken from Dr. Sachse's Office (KW-Anlage)

Production of synthesis gas and acetylene by partial combustion of methane and other processes. Items 1-20 in chronological order.

1. Linde's offer for new plant at Linz
2. Calculations for Ferngas splitting plant N Oppau
3. Detailed cost estimate for new Oppau plant
4. Application of Saar-Ferngas Company for price increase
5. Cost calculation for Ferngas splitting

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6. Supplement to item 4
  7. First production of new Oppau plant
  8. Calculation for new coke-oven splitting plant at Linz
  9. Calculations for projected coke-oven gas splitting plant K Oppau
  10. Report on Hygas splitting plant Schlesien-Benzin
  11. Comparison of composition and cost of gases from various sources
  12. Comparison of Koppers and I.G. Röhrenofen splitting process
  13. Calculations for coke-oven gas splitting plant N Heydebreck
  14. Supplementary material to item 12
  15. Supplementary material to item 12
  16. Supplementary material to item 12
  17. Supplementary material to item 7
  18. Heat balance of Röhrenofen
  19. Calculations for methane splitting in plant K Heydebreck
  20. Comparison of Röhrenofen and partial combustion process (Sachsse process) for planned production of hydrogen from natural gas at Hüls
  21. Patent on partial combustion process for ammonia synthesis gas
- Items 22-25 in chronological order
22. Patent on acetylene production by partial combustion
  23. Cost estimate for production of 70% acetylene and synthesis gas by partial combustion
  24. How to operate the acetylene burner
  25. Paper on burning velocity by Dr. Sachsse
- Products from acetylene. Items 26-31 in chronological order
- 25a. Calculations on production of acetylene and acetone
  26. Short memo on production of acetylene and acetone
  27. Report on production of acetone
  28. Short memo on development of di-acetylene chemistry at Hüls
  29. Memo on addition of alcohol on di-acetylene (Hüls)
  30. Patent on solvents for acetylene
  31. Lecture of Dr. Reppe on acetylene chemistry  
(TEA meeting, 29 June 1944)

Engineering Drawings

32. Op. 648 - Acetylene preparation
33. Op. 648 - Acetone synthesis
34. Op. 648 - Acetone scrubber flow scheme
35. Op. 648 - Acetone recovery flow scheme
36. Op. 648 - Acetone scrubbers and recovery system
37. Op. 648 - General flow sheet
38. Op. 648 - Layout of combustion stage (Nachbrämer) for synthesis gas preparation
39. Op. 648 and surrounding plants - building layout on site
40. Op. 648 - Heat exchange
41. Op. 648 - Photographs
42. Linz Plant - Flow sheet of NH<sub>3</sub> synthesis gas production
43. Heydebreck plant - Heat exchange

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II. Construction materials :

44. Material for butyl and methanol synthesis
45. Behavior of various materials exposed to synthesis gas.  
Report
46. Damage on heat exchangers

III. Other subjects

47. Production of Mischkybol
48. Report on ignition of gas mixtures by grinding wheel sparks

1677A 30/4.10 - Wesseling

1. Wesseling operating report, 1941-1944
2. Process of Recovering Oil from Shale at Schöenberg Württemberg

3028 30/Opportunity - Drawings from Klönne's of Dortmund

- A. Specification of Fine Purification Plant.
- B. Drawing 3834 - Gas heater
- 70158 - CS<sub>2</sub> Purifying Plant. Plan
- 71614 - Assembly of Fire Purifier
- 71668 - Oxide Tray
- 525283 - Carrier for Purifier
- 526136 - Section of Purifier
- 711261 - Arrangement of Fine Purification Plant
- 711236 - Cover of Purifier
- 711274 - Purifier shell
- 711279 - Assembly of Fine Purifier
- 721445 - Upper and Lower Trays of Purifier
- 722615 - Carrier for Fine Purifier
- 732424 - Gastight packing for Trays

VARIOUS DOCUMENTS MISPLACED IN SCREENING PROCESS

1928 30/4.03 - I.G. Farben - Ludwigshafen

1. File on Estonian Shale Oil
2. Papers "polycyclic aromatics from hydrogenation Products" and "On Coronen"

3041 30/4.02 - I.G. Farben - Leuna

1. Determination of methanol in aqueous solutions of fatty alcohol sulfates
2. On the reaction products of the OXO process
3. Production of Mersol and Mersolate on the basis of petroleum products
4. Flow diagram of DED process Leuna
5. Production of Fischer petrol from natural gas
6. Questionnaire of Nov. 13, 1944, concerning important foreign motor fuel processes - For use in prisoner-of-war investigations

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7. Patent on condensation products of oil fractions by treatment with metal halides
8. Patent on removal of non-alcohols from mixtures with alcohols of more than 8 C-atoms by azeotropic distillation
9. Recipe for K.K. catalyst
10. Propane peroxide: Dutch report on pilot plant and late I.G. research

3413 Deutsche Gold-Und Silber Scheideanstalt

1. Methanol synthesis with ternary Zn-Mn-Cr-catalyst

CHEMISCHE WERKE, HÜLS

2. Pencil sketch of process by Director Baumann
3. Di-acetylene absorption curve (infra-red)
4. Miscellaneous analytical procedures

PÖLITZ-5 30/4.13 - PÖLITZ PLANT

1. Table on catalyst composition

1477 30/5.01 - RUHRCHEMIE A.G.

1. Treatment of foreign workers