

Bag 3042 - Target No. 30/4.02 Leuna

continued from reel 018

B) DHD and HF Processes.

83. Catalyst removal in HF-plant, Moosbierbaum, August 1943.
84. Preparation of catalyst for third filling, HFI.
85. Organization chart, mineral oil operations, Moosbierbaum July 1943
86. Analysis of representative Moosbierbaum samples.
87. Turnaround of HF-plant, Moosbierbaum.
88. Catalyst samples, Moosbierbaum.
89. Samples of unstabilized product and circulating gas, HF, Moosbierbaum.
90. Observations on operations of HF
91. Tests on HF product samples.
92. Monthly report on Moosbierbaum HF operation, November 1944.
93. Monthly report on Moosbierbaum HF operations, August 1944.
94. " " " HF operations, July 1944.
95. " " " HF operations, June 1944.
96. Method for conversion of hydrocarbons.

- 97. Method of dehydrogenating hydrocarbons.
- 98. Method of obtaining antiknock gasoline.
- 99. Method of preparing antiknock hydrocarbons.
- 100. The hydrogenating (HF) process.
- 101. Conference at Leuna on DHD and HF processes.
- 102. Study of polymer bottoms from DHD and HF processes.
- 103. Catalytic dehydrogenation in the presence of hydrogen.

(E) Refining Processes. Misc

- 104. Refining of Gasoline from carbonization of coal
- 105. Separation of Moosbiertönn.
- 106. Kücknack-project.
- 107. Butadiene from thermal-cracking of naphthenes.
- 108. Apollo Refining, Pressburg.
- 109. Use of leaded Aviation Gasoline for motor vehicles tanks

(F) Preparation of Aromatics.

- 110. Distillation curve for azeotropic distillation of aromatics with methanol.
- 111. Patent application on a process for the manufacture of toluene from benzene and methanol.
- 112. Patent application on the manufacture of aromatics by alkylation of aromatics
- 113. Preparation and properties of alkylbenzenes.
- 114. Patent application on the manufacture of aromatics by alkylation.
- 115. Patent application on the manufacture of aromatics by alkylation.
- 116. Patent application on the separation of aromatics from other hydrocarbons by azeotropic distillation
- 117. Patent application on the preparation of pure n-xylene.

(G) Proposed Manufacture of Toluene.

- 118. German patent on the manufacture of benzene and toluene by demethylation of polymethylbenzenes.
- 119. Memorandum on the distillation of aromatics for the recovery of toluene.
- 120. Flow sheet for proposed manufacture of toluene.
- 121. Toluene by azeotropic distillation of aromatic fraction.
- 122. Proposed toluene manufacture at Leuna.
- 123. ditto. ditto.
- 124. Description and flow sheet of proposed toluene manufacture at Leuna.
- 125. Economics of toluene manufacture by demethylation of higher aromatics.
- 126. German sources and possibilities for the manufacture of toluene and xylene
- 127. Summary of the literature and patent references on the manufacture of toluene from heptane by Ruhrchemie
- 128. Manufacture and possible uses for xylene.
- 129. Preparation of toluene by dehydrogenation of coking plant toluene
- 130. Estimation of the possibility of toluene manufacture at Leuna
- 131. Manufacture of toluene at Leuna from aromatic fractions from Pölitz
- 132. Preparation of toluene from boiling aromatics by catalytic treatment.

(H) Alcohols synthesis from CO and H₂

133. Report on use of zinc and chromium catalysts for the synthesis of methanol.
134. Report on improvement of the strength of catalysts for the methanol synthesis.
135. Report on the Synol synthesis.
136. Patent application on the manufacture of alcohols from CO and H₂.
137. do. do. do.
138. do. do. do.
139. do. do. do.
140. do. do. do.
141. Patent application on the separation of alcohols and hydrocarbons
142. Patent application on the processing of the reaction products of the synthesis from CO and H₂.
143. do. do. do.
144. Patent application on the preparation of organic compounds containing oxygen (OXO synthesis)
145. Dicarboxylic acid half ester salts of long chain Synol and OXO alcohols.

(I) Reactors for catalytic processes.

146. Patent application for a reactor provided with tubes for temperature control
147. do. do. do.
148. Patent application for a reactor with moving catalyst.
149. do. do. do.

(J) Fischer-Tropsch

150. Progress report from Franz Fischer's laboratory from April 1941 to March 1942.
151. Experiments on hydrocarbon synthesis at Leuna.
152. Hydrocarbon synthesis from mixtures of carbon monoxide and hydrogen, etc.

continued on reel 020