

FILM STUDY GROUP

REFORT

T.O.M. REEL NO. 99

Prepared by

STANDARD OIL COMPANY (INDIANA)

Microfilm Reel 98  
(Original Designation 000)

TECHNICAL OIL MISSION  
U. S. BUREAU OF MINES

Sorsened by Standard Oil Co. (Indiana)

The first portion of this reel contains a series of illustrations which were intended to accompany a report by H.M. Weir concerning the air liquefaction plant of Linde-Eismaschinen A.-G. The report itself is not included in the reel and has not been as yet identified among the reports issued through the Office of Technical Services of the Department of Commerce. \*

Frame 2 - The first drawing is a schematic sketch of apparatus for the decomposition of coke oven gas, with recovery of pure methane or for the separation of converted water gas. It is identified by the number 48.786.

Frame 3 - is a scheme for a hydrogen plant, with no numeric designation. Some of the individual parts are a vacuum still, evaporator, heating and refrigerating sections.

Frame 4 - is a flow diagram for an ethylene plant without high pressure recycling of  $C_2H_4$ . It is identified as drawing 77.245

Frames 5-6 - Flow chart for apparatus and operation of a plant for ethylene recovery. Drawing 49.278

Frame 6 - Reproduction, probably from a colored original, of the complete plan for a hydrogen recovery plant. The equipment includes the coke gas compressor, ammonia compressor, ammonia liquefaction equipment, circulation pumps, caustic scrubbing tower and benzol separator.

Frames 9-11 - Complete scheme for a coke oven gas separator, no numeric designation.

Frame 12 - Large scale diagram for a gas separation plant for Toyama, Japan, processing 1500 cu. meters  $N_2$  and 5000 cu. meters  $3H_2 + N_2$ . Drawing 7.288

Frame 13 - Diagram for an oxygen recovery apparatus with regenerators. August 1940, for Sächische Werke Gaswerk Bülten.

Frames 17-32 - Schedule of air liquefaction plants delivered, including plants for the production of oxygen and nitrogen. This is a list showing date of construction, company, location, type and capacity of units delivered. The earliest date is 1903, the latest 1944.

\* NOTE:- This report is Item No. 30, File No. XXVII-55,  
Gesellschaft für Linde's Eismaschinen A.G.  
Hollriegelskreuth, by H.M. Weir  
PB No. 368, Reproduced on T.O.M. Reel 199

Frames 33-39 - Large scale Linde-Frankl plants schedule of delivery. This list includes: date, company, location, capacity and purity of product. A cancelled section of the end is marked "ordered but not delivered."

Frames 38-44 - Schedule of gas separation plants delivered. This includes date, company, location, feed stock, capacity and product, and covers the years 1909 through 1944.

Frames 45-56 - to the end contain the annual reports of the board of directors for the fiscal years 1943, 1942, 1941 respectively.

TECHNICAL OIL MISSION

MICROFILM REEL 99

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