CLASSIFICATION SECRET

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT [redacted]

CD NO. 25X1

COUNTRY East Germany

DATE DISTR. 26 November 1954

SUBJECT Development of an Infrared Spectrometer at Carl Zeiss, Jena

NO. OF PAGES 1

PLACE ACQUIRED [redacted]

NO. OF ENCLS. (LISTED BELOW) 25X1

DATE OF INFO. [redacted]

SUPPLEMENT TO REPORT NO. 25X1

[redacted]

THIS IS UNEVALUATED INFORMATION

[redacted] 25X1

1. [redacted] Jena, has completed the development of an infrared spectrometer under the supervision of Dr. Bolz (fnu). The device is to be used for the investigation of gaseous and liquid substances. The infrared source is a silit stick which is subjected to a temperature of 1,250° Centigrade.

2. As of late August 1954, one sample of this device had been completed. It is a box about 60 centimeters wide and 130 centimeters long. It is sunk about 20 centimeters deep into a desk [redacted] which it protrudes about 30 centimeters. The gaseous or liquid bodies to be investigated are placed in the device in small cuvettes with openings of from 1/100 mm. upward. The device works in a range up to 18 mu.

3. The results obtained by the device are automatically registered with the aid of a "writing comb", which slides over a roll wrapped in waxed paper. Dr. Bolz declared that this automatic writing mechanism constitutes a considerable advantage of his model over similar models produced in the U.S.

4. Six samples of the device were to be produced in the near future.

[redacted] 25X1

[redacted] 25X1

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SUPPLEMENT TO REPORT NO.

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1. The Feinmess Lab (Precision Measurement Laboratory) of VEB Carl Zeiss, Jena, has completed the development of an infrared spectrometer under the supervision of Dr. Bolz (fnu). The device is to be used for the investigation of gaseous and liquid substances. The infrared source is a silite stick which is subjected to a temperature of 1,200° Centigrade.

2. As of late August 1954, one sample of this device had been completed. It is a box about 60 centimeters wide and 130 centimeters long. It is sunk about 20 centimeters deep into a desk above which it protrudes about 50 centimeters. The gaseous or liquid bodies to be investigated are placed in the device in small cuvettes with openings of form 1/100 mm. upward. The device works in a range up to 16 mu.

3. The results obtained by the device are automatically registered with the aid of a "writing comb", which slides over a roll wrapped in waxed paper. Dr. Bolz declared that this automatic writing mechanism constitutes a considerable advantage of his model over similar models produced in the U.S.

4. Six samples of the device were to be produced in the near future.

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