

CLASSIFICATION

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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

CD NO.

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COUNTRY East Germany

DATE DISTR. 8 November 1955

SUBJECT VEB Carl Zeiss, Jena: Infrared Spectrophotometer

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SUPPLEMENT TO REPORT NO.

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Experimental Design Office No. 1 of VEB Carl Zeiss, Jena, is giving impetus to the development of a new improved version of an infrared spectrophotometer previously shown at the Leipzig Spring Fair of 1955. Plant engineers of the form of the 1955 model was not only poor from an esthetic and sales point of view, but also made it very difficult to adjust the instrument before and during its operation. Plans are therefore being drawn up to enlarge the "desk" on which the instrument is bedded by about 50 centimeters and to place the spectrophotometer as such somewhat deeper in the center well so as to avoid its looking like a "breadbasket". The outer finish is also to be improved. More of the metal parts of the "desk" stand, as well as of the instrument proper, are to be made of cast aluminum.

2. Plans for the infrared spectrophotometer include a total of 1,450 drawings, some of which reportedly were destroyed in the recent fire at the plant's standardization section.

3. The instrument as such has the following:

Manochrometer

Lighting system (Beleuchtungsanlage)

Cooling system (Klima-Anlage)

Recording mechanism (Schreibwerk)

Record sheet (Strahlungsempfaenger)

Preamplifier (Vorverstaerker)

Main amplifier (Hauptverstaerker)

Connecting lead wires (Verbindungskabel)

Work table (Arbeitstisch)

Spectrometer

Prism holder (Prismenstuhl)

Cycle selector (Programmwaehler)

Clearance unit (Spaltgruppe)

Contactor (Kontaktgeber)

Cam-type drive (Kurvenscheibenge triebe)

Record sheet carriage (Strahlungsempfaengerhaltung)

Lubricating unit (Schmiertrommel und Schnecken)

Screening box (Abschirmkasten)

Power supply (Stromversorgung)

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1. Experimental Design Office No. 1 of VEB Carl Zeiss, Jena, is giving top priority to the development of a new improved version of an infrared spectrophotometer, previously shown at the Leipzig Spring Fair of 1955. Plant engineers found that the form of the 1955 model was not only poor from an esthetic and sales point of view, but also made it very difficult to adjust the instrument before and during its operation. Plans are therefore being drawn up to enlarge the "desk" in which the instrument is bedded by about 50 centimeters and to place the spectrophotometer as such somewhat deeper in the center well so as to avoid its looking like a "breadbasket". The outer finish is also to be improved. More of the metal parts of the "desk" stand, as well as of the instrument proper, are to be made of cast aluminum.
2. Plans for the infrared spectrophotometer comprise a total of 1,450 drawings, some of which reportedly were destroyed during the recent fire at the plant's standardization section.
3. The instrument as such has the following parts:

- | | |
|--|---|
| Monochromator | Prism holder (Prismenstuhl) |
| Lighting system (Beleuchtungsanlage) | Cycle selector (Programmwaehler) |
| Cooling system (Klima-Anlage) | Clearance unit (Spaltgruppe) |
| Recording mechanism (Schreibwerk) | Contactator (Kontaktgeber) |
| Record sheet (Strahlungsempfaenger) | Cam-type drive (Kurvenscheibengetriebe) |
| Preamplifier (Vorverstaerker) | Record sheet carriage (Strahlungsempfaengerhaltung) |
| Main amplifier (Hauptverstaerker) | Lubricating unit (Schmiertrommel und Schnecken) |
| Connecting lead wires (Verbindungskabel) | Screening box (Abschirmkasten) |
| Work table (Arbeitstisch) | Power supply (Stromversorgung) |
| Spectrometer | |

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