The Dr. Edgar Curtener A.G. of Zurich manufactures teletypewriters that have a distinct system of pulse transmission. The machines are small and compact. In addition to the teletypewriters, the concern also manufactures a teletypewriter machine for use with their own printer or standard equipment.
On 15 September, Dr. Marcel Golay, Signal Corps Laboratories, Ft. Monmouth, N.J., and the reporting officer, in company with Colonel Hans Lehrwyler and Major Fritz von Arx, both of the War Technical Service, Swiss Army, visited the Dr. Edgar Gretenar A.G. The company is located at 28 Ottomag in Zurich; the director of the company is Dr. Edgar Gretenar. The main products of the company are teletypewriters and telecrypto machines.

The teletypewriter is known as the ETK Teletypewriter. It is claimed to be more simple in construction, smaller and lighter in weight than standard machines. The apparatus employs a new form of combination writing whereby all characters are built up by a number of elementary signs. A total of fourteen elementary signs are provided, from which the whole alphabet and all figures can be formed. A converter is necessary in order to operate this machine with the usual fine pulse code teletypewriter.

The Telecrypto apparatus, Type TKG 5/14, is an on line crypto device which can be used with either the 14 pulse ETK Teletypewriter or the standard 5 pulse machines. Dr. Golay was very much impressed with the machine and his reactions and comments can be found in his report to the Signal Corps Laboratories. For further detailed information on both the ETK-Teletypewriter and the Telecrypto Apparatus, Type TKG 5/14, see Inclosure 7 to R-229-50 dated 1 November 1950, subject: "Swiss Army Signal Equipment."

The ETK-Teletypewriter is standard equipment in the Swiss Army. The Telecrypto Apparatus, Type TKG 5/14 is undergoing service test by the Swiss War Technical Service. It is understood that Dr. Gretenar is in the United States at present, promoting his products. It is also understood that the U.S.A.F. has purchased some items of this equipment.

**COMMENTS OF THE PREPARING OFFICER:**

The ETK-Teletypewriter appears to be a good machine but in the opinion of the reporting officer it can not compare with the new lightweight teletypewriter recently developed by the Signal Corps Laboratories. The Telecrypto Apparatus, Type TKG 5/14 appears to satisfy many of the U.S. military characteristics for such equipment, with one exception - that of weight. However, this machine might be of interest to Army Security Agency.

**APPROVED:***

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