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SUBJECT One Hundred Million Frame-~~per~~-Second Camera
Development at Zeiss Jena

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- In February 1952, the Berliner Technisches Büro (BTB) of SAG Transmasch, formerly part of SAG Avtovelo, notified VEB Carl Zeiss, Jena, that it was working on the development of a special camera with an exposure time of one hundred millionth of a second. Oberingenieur (fnu) Wucherpfennig of BTB pointed out that the development was based on a paper by M. Sultanoff, "A 100,000,000 frame per second camera"*. In order to develop the camera, BTB requested Zeiss to produce a latticed screen (Gitter), of four by four inches with lattice lines having a thickness of one ten thousandth of an inch and a screen constant of one hundredth of an inch. It was furthermore specified that the lines were to be drawn on a metal layer and to be steamed upon a glass plate. The thickness of the lines was to be very exact.
- Zeiss accepted the order for the screen. In August 1952 the Zeiss Feintellerei was engaged in making the required screen under the direction of Meister (master artisan) Orlamuende who was being assisted by several scientists of the Zeiss Feinmess department. At that time the screen was not yet completed.

* [] Comment. The article was published in The Review of Scientific Instruments, Volume XXI, Page 633, 1950.

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