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TEXT: This is a brief review on recent results obtained both in the USSR and abroad, in the design and construction of new high-pressure equipment. For pressures up to 1000 kg/cm^2, Soviet industry produces in series the HKP (NZhR) type pump. For pressures ranging from 12000 to 15000 kg/cm^2, the Soviet scientist L.F. Vereshchagin developed a continuous-operating hydrocompressor. The works of foreign scientists, P.V. Bridgeman,

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High-pressure research...

E. Lloyd, England, and F.R. Boyd, on high-pressure research and equipment are described, and the design of a new appartus for pressures up to 170,000 kg/cm^2, developed by Vereshchagin is outlined. With this appratus, Vareshchagin and co-workers developed a new structural modification of SiO_2, Sermed Stipoverit, characterized by a much higher density than the natural mineral. There are 2 figures.

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