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SOURCE Newspapers as indicated.

DEVELOP GEODETIC, ACTINOMETRIC, CONTROL INSTRUMENTS

BUILDS SURVEYING INSTRUMENT -- Kishinev, Sovetskaya Moldaviya, 21 Mar 52

K. N. Shmanenko, docent of the Kishinev Pedagogical Institute, has developed a laboratory geodetic instrument which automatically computes the results of field measurements. The instrument replaces special surveying tables and nomographs. It calculates the length of the horizontal projection of a line and horizontal and vertical increments of coordinates.

DESIGNS SUN VALVE -- Riga, Sovetskaya Latvija, 28 Mar 52

L. I. Charnodokiy, engineer of the Riga Etalon Plant, is participating in the designing of a sun valve, intended for automatic operation of light beacons on the Volga-Don Canal route.

I. M. Volokhovskiy, chief of the technological division, Riga Gidromet-pribor Plant, has announced the production of an instrument for the automatic control of the water level of canals and rivers.

PRODUCES 30 IMPROVED TYPES OF INSTRUMENTS -- Tbilisi, Zarya Vostoka, 2 Apr 52

The Tbilisi Gidrometpribor Plant is building a large variety of instruments for USSR GES projects. The plant is now producing 30 types of instruments, whereas in 1949 only eight types of instruments were made. In the last 12-15 months the plant organized the production of 12 different instruments.

In 1951, the plant began the production of actinometric instruments, which measure the activity of various elements of the sun's radiation. The pyranometer (used for measuring the intensity of solar short-wave radiation) has a thermoelectric battery which consists of 164 parts. The weight of the pyranometer is only 0.30 gram.

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In designing the instruments, the plant adopted parts that would be interchangeable with different instruments. For example, the same thermoelectric element is used on the pyranometer and the albedometer. Another improvement is the simultaneous welding and stamping of the MM-49 meteorological instrument, the production of which was organized in 1951. This operation replaces the steel-casting process.

The chief of the hydrometeorological service under the Council of Ministers USSR commended the work of the Tbilisi plant in organizing the production of the new instruments.

SPECIAL INSTRUMENT DETERMINES COLOR -- Moscow, Vechernyaya Moskva, 3 Apr 52

The Central Laboratory of Control and Measuring Instruments of Glavpishchemash (Main Administration of Food Machine Building) has built a special electrical instrument for determining colors. The instrument is simple in construction and small in size and weight.

The instrument determines the intensity of the color of the inspected article when the transmitting element is placed on the article to be examined.

The instrument, based on the photoelectric cell, is sensitive to changes in illumination. It measures the relative color of flour, baked bread, and fat and also determines the color of paper, cloth, wood, or painted surfaces.

CONSTRUCT NEW ASTROPHYSICAL APPARATUS -- Berlin, Aussenhandelsnachrichten, 8 Mar 52

Several types of apparatus for astrophysical investigations have been constructed by Soviet scientists. One of the new apparatuses is a photoelectric device which automatically indicates when an astral body crosses a meridian, and which also registers the movement of a particular star in the heavens. Other devices determine the color of astral bodies, register the periodic variations of variable stars, and determine the strength of the light of comets and of the solar corona.

The designer, Boris Kosyrev, has developed an apparatus which registers temperature variations to the millionth part of a degree. This apparatus will be used for the investigation of the climate of Mars and for the determination of the temperature of stars which are located many light-years from the earth.

PLEDGES TO BUILD INSTRUMENTS AHEAD OF SCHEDULE -- Moscow, Trud, 28 Mar 52

The Krasnodar Measuring Instrument Plant has pledged to produce ahead of schedule electrical instruments for the Stalingrad and Kuybyshev GES projects.

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