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SOURCE Newspapers as indicated.

PRODUCE NEW FARM MACHINERY;
USE NEW SEED-TREATING, WELDING PROCESSES

PLANT PUTS OUT NEW SILO COMBINE -- Kiev, Pravda Ukrainy, 1 Jan 51

The Gomel' Agricultural-Machine Building Plant has produced the first model of a new silo combine. This machine completely mechanizes the harvesting of root crops and the preparation of fodder on animal husbandry farms. The combine has been approved for series production.

PRODUCES IMPROVED TRACTOR PLOW -- Moscow, Izvestiya, 28 Dec 50

The Altay Agricultural-Machine Building Plant has begun production of a new five-bottom tractor plow. An improvement over the old model, it consists of more than 40 different units, some of them automatic.

The plow is intended for heavy soils and can cut to a depth of 28 centimeters.

NEW MACHINE BREAKS ICE ON GRAZING LANDS -- Leningradskaya Pravda, 28 Dec 50

The Akmolinsk Kazakhsel'mash Plant has sent out its first group of new machines designed to break up the ice on winter pasture fields. A machine of this type can process 65 hectares per day.

DESIGN NEW COTTON-PICKING, CLEANING MACHINES -- Moscow, Pravda, 1 Jan 51

The State Special Design Bureau has designed a number of new high-duty machines with a view toward furthering the mechanization of cotton-growing operations. A group of engineers, headed by Stalin Prize winner M. N. Markov, has modernized the SKM-48M cotton picker, which is now 410 kilograms lighter than the old model. A group of designers, headed by Engineer

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50X1-HUM

I. K. Kuznetsov, has designed a three-row cotton-picking machine for non-irrigated regions, which is to be put into series production. They have also designed a six-row cotton picker for harvesting unopened "kurak" cotton pods.

A number of engineers, headed by V. I. Gorbunov, has designed a machine for picking "guza-pay" cotton.

A new machine for preliminary cleaning of raw cotton is ready for series production. It is twice as productive as the KhChO-43 cotton cleaner and leaves a minimum of impurities, making it possible to stuff the cotton mechanically into sacks immediately after cleaning.

In addition, the bureau has designed new earth-digging machines for the new irrigation project, which have already gone into production.

NEW GRAIN CLEANER -- Moscow, Izvestiya, 7 Feb 51

Agronomist F. P. Kovryyalov, of the Issyk-Kul'sk Oblast Administration of Agriculture, has designed a new grain-cleaning machine which is considerably superior to the well-known VIM-2 grain-cleaning aggregate. It cleans and sorts the grain simultaneously. Its productivity is 2 tons of grain per hour.

The machine has been tested over a period of 4 years in the Issyk-Kul'skiy Rayon, and has shown satisfactory performance.

IMMUNIZE COTTON SEED WITH HOT GASES -- Yerevan, Kommunist, 4 Feb 51

K. A. Vatalina, a senior associate of the Ukrainian Scientific Research Institute for Cotton Growing, has proposed a new way of immunizing cotton seed against the "gommoza" disease. The method, known as the gas-heat treatment process, consists of treating the seed with hot formalin vapors, which not only make the seed immune but also improve its sowing qualities.

A continuous-motion mechanism for the production of hot gases has been designed by Engineer P. I. Pchel'nikov of the Tashkent office of the Glav-khlopkoproyekt (Main Administration of Cotton Planning). It can process 2 tons of seed per hour. Recently, the Pyatigorsk Iron-Casting Plant of the Gormestpromkombinat (City Local Industry Combine) produced an experimental model of this machine, the first of its kind in the USSR.

IMPROVE AUTOMATIC WELDING PROCESS -- Tashkent, Pravda Vostoka, 9 Feb 51

The automatic welding method devised by Academician Ye. O. Paton, which involves the application of a layer of flux, is widely employed when the seams to be welded are straight or circular and when they have considerable length. However, in agricultural-machine building it is difficult to apply this method, since the seams in the majority of cases are short and occur in complex configurations.

In this connection, the Rostov Agricultural-Machine Building Plant has devised a new method of automatic welding. All the seams are placed lengthwise, and special, maneuverable welding equipment is employed. This method applied to the welding of parts of the self-propelled mover has speeded up production from 3.5-4 meters per hour to 40 meters per hour.

- 2 -

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SECRET

SECRET



50X1-HUM

Automatic equipment is now also used for welding the parts of the Stalinets-6 combine.

FARM MACHINERY OUTPUT UP IN 1950 -- Moscow, Trad, 28 Jan 51

In accordance with the report published by the Statistical Administration of the Council of Ministers USSR concerning plan fulfillment in 1950, the following production increases over the 1949 totals occurred in 1950: grain combines, 59 percent; tractor plows, 47 percent; tractor seeders, 85 percent; and tractor cultivators, 67 percent.

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- 3 -

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