

KUZNETSOV, V.P.

Beats in microseisms of soils caused by the swell of the sea.
Dokl. AN Azerb. SSR 20 no.2:43-46 '64. (MIRA 17:6)

1. Institut geologii AN AzerSSR. Predstavлено академиком AN Azer
SSR A.D.Sultanovym.

KUZNETSOV, V.P.

Earthquake epicenters in the Apsheron Peninsula. Dokl. AN Azerb.
SSR 19 no.8:43-48 '63. (MIRA 17:11)

1. Institut geologii AN AzSSR. Predstavлено академиком AN AzSSR A.D.
Sultanovym.

KUZNETSOV, V.P.

Earthquakes from a surface focus in Sungait on December 12, 1959
and July 1, 1962. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk
no. 5:47-53 '64.
(MIRA 1816)

BAYMAKHANOV, M.T.; KARIMOV, B.A.; KUZNETSOV, V.P.

Study the ores of newly discovered deposits by making wider use of the possibilities offered by the Granitogorsk Experimental Ore Dressing Plant of the Kazakhstan Institute of Mineral Raw Materials. Razved. i okh.nedr 31 no.4:51-53 Ap '65.
(MIRA 19:1)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany nedr KazSSR.

AYZMAN, D.S., inzh.; GORELIK, G.I., inzh.; KUZNETSOV, V.P., kand. tekhn.
nauk

Technological potentialities of machine-tool units manufactured
at the Minsk Automatic-Line Plant. Mash. Bel. no.2:3-21 '60.
(Minsk--Machine tools)
(Automation)

(MIRA 16:7)

TATAROV, Yu.N., inzh.; KUZNETSOV, V.P., inzh.; KUDYANOV, A.V., inzh.

Designing automatic lines for machining small-sized parts.
Mash. Bel. no.2:22-31 '60. (MIRA 16:7)

(Machine tools) (Automation)

S/193/60/000/008/006/018
A004/A001

AUTHORS: Gorfinkel', V. Ya., Kuznetsov, V.P.

TITLE: The Horizontal MP55 (MP55) Broaching Assembly

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 8, pp.25-27

TEXT: The Minskiy stankostroitel'nyy zavod im. Kirova (Minsk Machine Tool Plant im. Kirov) has brought out the special MP55 horizontal broaching assembly, designed by the Special Design Office No. 8 of the Byelorussian Sovnarkhoz and intended for the broaching of pillow bearing cap surfaces of the CMΔ (SMD) diesel engine. While the caps of all internal combustion engines manufactured in the USSR were formerly cast and machined individually, they are now cast in one block, all mechanical tooling is done on the block and finally the individual caps are cut off. The assembly is composed of two special horizontal broaching machines connected by an automatic conveyor which effects the loading and unloading of the machines and conveys the components between the machines. The assembly is attended by one operator who puts the work-pieces into the conveyor loading position. With a productivity of 75 sets per hour the assembly replaces ten milling and five broaching machines attended by 15 people. The surfaces of the cap lug are machined

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The Horizontal MII55 (MP55) Broaching Assembly

S/193/60/000/008/006/018
A004/A001

on the first machine, while the surfaces of separation, the semicircumferences and the lock are broached on the second machine. Since the first machine has an upper working carriage and the second has a lower one, the upper and lower surfaces can be broached without tilting the component which considerably simplifies the conveyer installation. All hydraulic devices are mounted on the top plate of the hydraulic container. The broaches are composed of individual carbide-tipped tools mounted on a common rack. The body of the clamping fixture mounted in the central part is a cast portal fastened to the machine bed by claws. To produce the necessary clamping stress, the slide bar is tightened by a wedge, having a stress of 8,000 kg and being displaced by an individual cylinder. The components are shifted by the conveyer bar and set in the machining position. Then the working motion starts and the conveyer bar returns into its initial position. At the end of the working motion the components on both machines are automatically unclamped, the component on the second machine being placed onto the unloading plate. The conveyer bar carries out an advancing stroke, the component is shifted by one step and the clamping fixture unloaded. As soon as the bar returns into its initial position the working carriages are reversed, and, by the following advance stroke, the bar loads the new component into the clamping fixture, while the cycle is repeated. Both radial piston pumps are connected parallel in the hydraulic system.

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S/193/60/000/008/006/018
A004/A001

The Horizontal M/155 (MP55) Broaching Assembly

The slowing down of the working carriage travel towards the end of the rough broaching operation and before the gaging operation is effected by switching off the control electromagnets of one pump, as a result of which the pump sliding block is placed in the zero-productivity position while the electromotor keeps running. 100 kg of chips are produced per hour on both machines. From the first machine they fall into a hopper and from the second they are sucked off by a ventilator installation. The following technical characteristics of the machines are given (the data of the second machine being put in brackets): maximum traction stress - 25,500 (57,000) kg; maximum speed of working stroke - 11 (10) m/min; maximum carriage travel - 1,500 (3,150) mm; overall dimensions (length x width x height) - 5,700 (7,900) x 1,450 (2,100) x 1,675 (2,040) mm; weight - 6,000 (13,000) kg. There is 1 figure.

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KUZNETSOV, V.P.

PHASE I BOOK EXPLOITATION SOV/5861

Gorbatsevich, Aleksandr Feliksovich, Vladimir Petrovich Kuznetsov, and
Lev Grigor'yevich Yudovin

Avtomaticheskiye linii iz protyazhnykh stankov i avtomatizatsiya
protyagivaniya (Automatic Broaching Lines and Automation in
Broaching) Minsk, Gosizdat BSSR, 1961. 110 p. 1500 copies
printed.

Ed.: S. Pol'skiy; Tech. Ed.: G. Domovskaya.

PURPOSE : This booklet is intended for tool engineers and
technicians concerned with broaching operations and equipment.

COVERAGE: The booklet reviews various types of broaching machines.
Detailed descriptions and illustrations are provided for some
of these machines. Also discussed are the development of
automation and automatic broaching lines and their fixtures.
There are 19 references: 12 English, 5 Soviet, 1 Czech, and
1 German.

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Automatic Broaching Lines and (Cont.)

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Automatic Broaching Lines and (Cont.) SOV/5861
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AVAILABLE: Library of Congress

Card 5/5

DV/wrc/jw
1/17/62

GORBATSEVICH, Aleksandr Feliksovich [Horbatsevich, A.F.]; KUZNETSOV,
Vladimir Patrovich; GORANSKIY, G.K., kand. tekhn. nauk, red.;
TIMOFEEV, L., red. izd-va; TURTSEVICH, L., tekhn. red.

[Automatic lines for manufacturing gear wheels] Avtomaticheskie
linii dlia proizvodstva zubchatykh koles. Minsk, Izd-vo Akad.
nauk BSSR, 1961. * 132 p. (MIRA 15:1)
(Gear-shaping machines) (Automation)
(Gear-cutting machines)

KUZNETSOV, Vladimir Petrovich; GORBACHEVICH, Aleksandr Feiliksevich;
VANCHUK, L., red.

[Adjustable continuous lines] Perenalazhivaemye avtomati-
cheskie linii. Minsk, Belarus', 1964. 199 p.
(MIRA 18:1)

KUZNETSOV, V.P.

AID P - 2966

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 16/35
Author : Kuznetsov, V. P., Eng.
Title : Simplification of the construction of a current relay
with rapidly saturable transformers
Periodical : Energetik, 5, 21, My 1955
Abstract : The laboratory of a power station rebuilt a current
relay designed originally by the Central Scientific
Research Electric Engineering Laboratory (TsNiEL).
The author presents briefly the calculations made.
Institution : None
Submitted : No date

<p>Б. М. Рейнер Эффективность в многократном повторении излучения для передачи сигналов</p> <p>К. Н. Толкачев Помехоустойчивость приемника по схеме Шоту</p> <p>В. СЕКИРЕ АНТЕННЫЕ УСТРОЙСТВА Руководитель А. Р. Вильямса</p> <p>9 часов (с 10 до 18 часов)</p> <p>В. Д. Кузнецов Безопасность применения передатчиков радио для телефонного и УКВ вещания</p> <p>А. М. Медведь, Е. А. Альфимов Автоматическое управление для радиорелейных линий, использующих рабочие разрывы в транс- форматорах</p> <p>В. И. Барановский Автоматика для линий связи с использованием одного монокристаллического резистора</p> <p>Л. Е. Олешко Дизайн линий соединения антenn с фильтрами</p> <p>С</p>	<p>А. А. Петров Излучение полосовым круговым источником для ре- ализации линий</p> <p>9 часов (с 18 до 22 часов)</p> <p>В. Н. Амелинова, А. Д. Барзас, Н. С. Волковников К вопросу о влиянии излучающих элементов на диаграмму направленности излучателя, расположенного вблизи излучающей антенны</p> <p>В. А. Кондру О влиянии центрального элемента на диаграмму направленности антенны</p> <p>В. Я. Ильинский Использование глубокого регенеративного усиления в антеннах</p> <p>В. В. Гусев Дифракция излучающего поля во времени и перестройка излучающего поля</p> <p>М. Д. Хорев Излучение излучающим полем по концам ан- тенн</p>
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Report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in A. S. Popov (YUROB), Moscow,
8-10 June. 1959

KUZNETSOV, V.P.

Concerning a certain standard design. Prom. energ. 16 no.12:48
D '61. (MIRA 14:12)

1. Trest "Elektromontazh", Gor'kiy.
(Boilers) (Electric substations)

S/169/61/000/011/002/065
D228/D304

AUTHORS: Kuznetsov, V.P., and Vaysman, G.I.

TITLE: Relay equipment with phonic signalling for warning of the burning-out of bulbs and the depletion of accumulators

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 8,
abstract 11A79 (Dokl. AN AzerbSSR, 17, no. 3, 1961,
227 - 228) ✓

TEXT: The equipment was completed in the form of an attachment to the device for controlling the operation of the PC-II (RS-II) recording apparatus. The polarizing relay is connected in series to the circuit supplying each of the collimator's bulbs. The relay armature is heated by the passing current when the lamp in the collimator burns. On the burning-out of a bulb's filament, the armature closes the current circuit to the phonic call under the influence of a permanent magnet, and a small control lamp lights up on the panel. A control for the lamps' current-supply system is introduced

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Relay equipment with phonic ...

S/169/61/000/011/002/065
D228/D304

to regulate the voltage in the accumulators. The relay operates to the phonic call at a current of less than 0.1 a. [Abstractor's note: Complete translation].

Card 2/2

KUZNETSOV, V.P.

Cable ducts without metallic structures. Prom.energ. 17 no.2:33
F '62. (MIRA 15:3)
(Electric lines--Underground)

ACC NR: AR6034795 (*w*) SOURCE CODE: UR/0398/66/000/008/A001/A001

AUTHOR: Kuznetsov, V. P.

TITLE: Method of developing the basic tables for the new "Rules for the construction of steel vessels for inland navigation"

SOURCE: Ref. zh. Vodnyy transport, Abs. 8A1

REF SOURCE: Tr. Leningr. in-ta vodn. transp., vyp. 81, 1965, 76-85

TOPIC TAGS: ship navigation, inland vessel data, shipbuilding engineering, ship component, steel, hull

ABSTRACT: It is reported that by assignment of the RSFSR River Register, the Leningrad Institute of Water Transportation had developed new "Rules for the Construction of Steel Vessels for Inland Navigation" to replace the rules presently in force, published in 1961, and the "Standards for the Calculation of the Strength of Hulls of Steel Ships of Inland Navigation in the USSR", published in 1956. A feature of the new rules is that they regulate, first and foremost, the longitudinal stays of a vessel which are part of the equivalent girder. The methodology of the

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UDC: 629.122.001.12

ACC NR: AR6034795

elaboration of the rules is described. Sixteen basic tables of the rules give the thicknesses of bottom plating, top plating or deck plating and the total area of the cross-sections of keelson, carling and longitudinal stiffeners. The thickness of keelson walls on double-bottomed ships is indicated. The total area of the section of the deck strake stays of open vessels is regulated. These values are given as a function of the length L of the ship, the height of the side H and the ratios B:H and $T_r:H$. They are distinct for vessels of different types, class and system of framing of bottom and deck coverings. In the development of the tables, the hull was considered as an equivalent girder, in the general case of assymetric section. A numerical example is given of the application of the new rules to a general cargo power-propelled O-type vessel, 90-m long, 13.2-m wide and with a 4.4-, high side. Orig. art. has: 2 figures. Bibliography has 5 references. N. Medvedev.
[Translation of abstract]

[GC]

SUB CODE: 11, 14/

Card 2/2

L 36397-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

SOURCE CODE: UR/0070/66/011/003/0479/0480

ACC NR: AP6018783

AUTHOR: Loginova, R. G.; Kuznetsov, V. P.; Ovsyannikov, M. I.; Postnikov, V. V.

ORG: Gor'kiy Physicotechnical Institute (Gor'kovskiy fiziko-tehnicheskiy institut)

TITLE: Properties of epitaxial layers of silicon grown by vacuum sublimation

SOURCE: Kristallografiya, v. 11, no. 3, 1966, 479-480

TOPIC TAGS: single crystal, epitaxial growing, vacuum sublimation, temperature dependence, Hall constant, specific resistance, current carrier

ABSTRACT: Hall coefficients and specific resistivity measurements as functions of the concentration and mobility of current carriers were studied in single crystal Si films at temperatures ranging from 77° to 450°K. The thin films (50 to 200 μ) were produced by vacuum sublimation ($2 \cdot 10^{-7}$ mm Hg) on heated substrates (900° to 1200°C). Using the above data, the transport coefficients for B and P impurities were calculated. The films were n- and p-type, depending upon the source of the conductivity (B yielded p-type; P yielded n-type). The given temperature dependence for the concentration of current carriers in Si films was compared to the n- and p-type conductivity for published data on Si single crystals. At equal impurity concentrations, the given Hall mobility of the current carriers in epitaxial films was close to the mobility measured in Si single crystals for all temperatures (77°-450°K). Films of p-type conductivity had

UDC: 548.52 : 539.23

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L 36397-66

ACC NR: AP6018783

specific resistivities equal to the original material (0.03 to 20 ohm-cm). The transport coefficient for B was equal to one. The n -type films had specific resistivities ranging from 0.1 to 100 ohm-cm. At a substrate temperature of 1150°C, the films contained 50 times less P than the original starting material, having a specific resistivity of 0.1 ohm-cm; at 900°C the concentration of the film was the same as the original material. Thus the transport coefficient of P in the grown films depended strongly on the substrate temperature, since at growth rates of 20 μ/hr and temperatures below 1200°C the diffusion of P is negligible. The authors expressed their gratitude to V. M. Oboliksho for assistance in the work. Orig. art. has: 2 figures.

SUB CODE: 20,09/ SUBM DATE: 25Oct65/ ORIG REF: 003/ OTH REF: 006

Card 2/2 MLP

KUZNETSOV, V.P.

Electromagnetic corrections in μ --e--decay. Zhur.ekspl teor.
fiz. 37 no.4:1102-1105 O '59. (MIRA 13:5)

1. Moskovskiy fiziko-tekhnicheskiy institut.
(Radioactive substances--Decay)

88449

S/056/60/039/006/041/063
B006/B063

24.6900

AUTHOR: Kuznetsov, V. P.

TITLE: Internal Bremsstrahlung and Electromagnetic Corrections to
the μ -e DecayPERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 6(12), pp. 1721 - 1726

TEXT: Following Ref. 2 the present paper presents a calculation of electromagnetic corrections to electron polarization, to the correlation between electron and muon polarizations in μ -e decays, and also to the polarization and angular distribution of gamma quanta in internal bremsstrahlung. According to Gell-Mann and Feynman, the electron spin polarization vector $\vec{\epsilon}_2$ is set equal to $-\vec{n}_2$, and the calculation is made in the approximation $m_1/m_2 \gg 1$ (m_1, m_2 - muon and electron mass), where radiative corrections do not influence the character of electron polarization. As the radiative corrections to the μ -e decay are equal to those to the term proportional to $\vec{\epsilon}_2 \vec{n}_2$, there is no infrared divergence

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Internal Bremsstrahlung and Electromagnetic
Corrections to the $\mu-e$ Decay S/056/60/039/006/041/063
B006/B063

in the expression for ξ_2 . First, the correction for internal bremsstrahlung is determined:

$$\xi_2 = -n_2 \frac{r_1(\varepsilon) - \xi_1 n_2 s_1(\varepsilon)}{r_1(\varepsilon) - \xi_1 n_2 s_1(\varepsilon)},$$

$$r_1(\varepsilon) = 3 - 2\varepsilon + \frac{\alpha}{2\pi} \left[f(\varepsilon) - \frac{1}{3} \varepsilon^{-2} (1-\varepsilon)^2 (5-2\varepsilon) \right],$$

$$s_1(\varepsilon) = 2\varepsilon - 1 + \frac{\alpha}{2\pi} \left[h(\varepsilon) - \frac{1}{3} \varepsilon^{-2} (1-\varepsilon)^2 (1+2\varepsilon) \right], \quad (4)$$

$$r_2(\varepsilon) = 3 - 2\varepsilon + \frac{\alpha}{2\pi} f(\varepsilon), \quad s_2(\varepsilon) = 2\varepsilon - 1 + \frac{\alpha}{2\pi} h(\varepsilon);$$

where $\varepsilon = 2\varepsilon_2/m_1$; $\varepsilon_1, \varepsilon_2, \varepsilon_\gamma$ denote the energies of μ , e , and γ ; $f(\varepsilon)$ and $h(\varepsilon)$ are defined in Ref.2; ξ_1 is the polarization vector of the muon. If the muon is unpolarized, $\xi_2 = -n_2 [1-\Delta]$, $\Delta = \frac{\alpha}{2\pi} \frac{1}{3} \frac{1}{\varepsilon^2} \cdot (1-\varepsilon)^2 \frac{5-2\varepsilon}{r_2(\varepsilon)}$, i.e.,

the correction is significant only in the range $\varepsilon \lesssim 0.1$, where the electron is only slightly polarized. The correction in the case of

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Internal Bremsstrahlung and Electromagnetic Corrections to the μ -e Decay S/056/60/039/006/041/063
 B006/B063

$\varepsilon \rightarrow \varepsilon_{\min}$, which increases rapidly with $\varepsilon \rightarrow \varepsilon_{\min}$, is studied next. In the low-energy range of the spectrum, many-photon bremsstrahlung and pair production have to be taken into account. For the interval $0 \leq \theta \leq 3$ one finds

$$\xi_1 = -n_2 \frac{(3-2\varepsilon) \operatorname{th} \theta + \alpha g(\theta) / 2\pi - \xi_1 n_2 [(2\varepsilon-1)(\operatorname{ch} \theta - 1) / \operatorname{ch} \theta + \alpha f(\theta) / 2\pi]}{3-2\varepsilon + \alpha f(\theta) / 2\pi - \xi_1 n_2 [(2\varepsilon-1) \operatorname{th} \theta + \alpha h(\theta) / 2\pi]} - \xi_1 \frac{2\varepsilon^{-1}(1-\varepsilon) m_2 / m_1 + \alpha m(\theta) / 2\pi}{3-2\varepsilon + \alpha f(\theta) / 2\pi - \xi_1 n_2 [(2\varepsilon-1) \operatorname{th} \theta + \alpha h(\theta) / 2\pi]}. \quad (11)$$

and for $\xi_1 = 0$ one obtains

$$\xi_2 = -n_2(1-\Delta), \\ \Delta = \left[(3-2\varepsilon)(1-\operatorname{th} \theta) + \frac{\alpha}{2\pi} \left(\frac{m_1}{m_0} \right)^2 \cdot \frac{5}{6} \frac{1+\theta-\theta \operatorname{cth} \theta}{\operatorname{sh} 2\theta} \right] \left[3-2\varepsilon + \frac{\alpha}{2\pi} f(\theta) \right]^{-1}$$

In the non-relativistic case, $\xi_2 = -n_2 \cdot 0.42 \theta$, $\theta \ll 1$, and in the interval $1 \leq \theta \leq 3$ one obtains

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Internal Bremsstrahlung and Electromagnetic
Corrections to the μ -e Decay

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B006/B063

$$\begin{aligned}\xi_1 &= -n_1 \left\{ 3 - 2\varepsilon + \frac{\alpha}{2\pi} \frac{5}{3} \varepsilon^{-2} (\ln \varepsilon + \omega - 1) - \right. \\ &\quad \left. - \xi_1 n_2 \left[2\varepsilon - 1 + \frac{\alpha}{2\pi} \frac{1}{3} \varepsilon^{-2} (\ln \varepsilon + \omega - 2) \right] \right\} \times \\ &\quad \times \left\{ 3 - 2\varepsilon + \frac{\alpha}{2\pi} \frac{5}{3} \varepsilon^{-2} (\ln \varepsilon + \omega) - \xi_1 n_2 \left[2\varepsilon - 1 + \frac{\alpha}{2\pi} \frac{1}{3} \varepsilon^{-2} (\ln \varepsilon + \omega - 1) \right] \right\}^{-1}, \\ \Delta &= \frac{\alpha}{2\pi} \frac{5}{3} \varepsilon^{-2} / \left[3 - 2\varepsilon + \frac{\alpha}{2\pi} \frac{5}{3} \varepsilon^{-2} (\ln \varepsilon + \omega) \right].\end{aligned}$$

The functions $f(\varepsilon)$, $h(\varepsilon)$, Δ , r_1 , and s_1 are illustrated in a table and a figure. The author thanks Professor V.B. Berestetskiy for supervising the work, and Professor A. O. Vaysenberg for interest and discussions. There are 1 figure, 1 table, and 5 references: 1 Soviet and 4 US.

ASSOCIATION: Moskovskiy fiziko-tehnicheskiy institut (Moscow Institute of Physics and Technology)

SUBMITTED: July 7, 1960

Card 4/5

KUZNETSOV, V. P.

Cand Phys-Math Sci - (diss) "Electromagnetic corrections to μ -e decay, and internal inhibiting radiation." Moscow, 1961. 5 pp; (Academy of Sciences USSR, Inst of Experimental and Theoretical Physics); 150 copies; price not given; bibliography at end of text(17 entries); (KL, 10-61 sup, 204)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

RABINOVICH, M.L., inzh.; KUZNETSOV, V.P., inzh.

Group devices with semiconductor rectifiers for the electro-magnetic drives of electric cutouts. Prom. energ. 20 no.1:16-17 Ja '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6"

KUZNETSOV, V. F.

Agriculture

Green fertilizers in the agriculture of
Uzbekistan, AN Uzb. SSR, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

KUZNETSOV, P.

Kuznetsov, P. "The influence of trace elements on the increase in the rate of ripening and the yield of the cotton plant", (In index: V.P. Kuznetsov), Izv. stiya Akad. nauk UzSSR, No. 3, p. 50-57, (Resume in Uzbek), - Bibliog: 6 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

USSR / Cultivated Plants. Plants for Technical Use. M-6
Sugar Plants.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73034.

Author : Kuznetsov, V. P.
Inst : Central Asian Scientific-Research Institute of Irrigation.

Title : Sprinkling Irrigation of Cotton and Grasses.

Orig Pub: Byul. nauchno-tehn. inform. Sredneaz. n.-i. in-t
irrigatsii, 1957, No 2, 17-18.

Abstract: Tests were conducted in 1954-1956 on heavy, thick soils in Bukharskaya Oblast. Distance sprinkling machines DDP-30 s. were used. These machines can be used with success in irrigation networks with tree plantations. Surface accumulation of water occurred in the lowland parts of sloped irrigated areas with rate of 400-500 m³/ha. With a combina-

Card 1/2

USSR / Cultivated Plants. Plants for Technical Use. M-6
Sugar Plants.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73034.

Abstract: tion of basic irrigation with refreshers (50-100 m³/ha), no marked salinity of the soil occurred. Irrigation rates were almost cut in half by sprinkling, and the yield in comparison with ditch irrigation increased by almost 10 centners/ha. Water per ha. -- A. N. Smirnov.

Card 2/2

KUZNETSOV, V.P., starshiy nauchnyy sotrudnik

Radioactive elements and their role in increasing cotton
yields. Trudy SANIIRI no.97:43-57 '59. (MIRA 13:6)
(Cotton-Fertilizers and manures)
(Plants, Effect of radioactivity on)
(Soil structure)

KUZNETSOV, V.P., doktor sel'skokhozyaystvennykh nauk, dotsent

Biological aspects and cultivation problems related to the
growing of wild pear rootstock in soil blocks. Izv. TSKhA
no.3:137-151 '60. (MIRA. 14:4)
(Pear)

KUZNETSOV, V.P., inzh.

In one month 56,364 tons of coal were mined from one longwall. Ugol'.
prom. no.6:3-6 N-D '62. (MIRA 16:2)

1. Lisichanskiy trest ugol'noy promyshlennosti Ministerstva ugol'noy
promyshlennosti SSSR.
(Privol'nyanskiy region—Coal mines and mining)

TURNEYEV, P.S.; KUZNETSOV, V.P.

Integrated brigade working around the block in longwalls of mines of
the Lisichanskugol' Trust. 'Ugol'. prom. no. 6:16-17 N-D '62.
(MIRA 16:2)

1. Nachal'nik otdela truda i zarabotnoy platy Lisichanskogo tresta
ugol'noy promyshlennosti SSSR (for Turneyev). 2. Nachal'nik normativno-
issledovatel'skoy stantsii Lisichanskogo tresta ugol'noy promyshlennosti
Ministerstva ugol'noy promyshlennosti SSSR (for Kuznetsov).
(Donets Basin--Coal mines and mining--Labor productivity)

DMITRIYENKO, Yu.I., inzh.; IVASHIN, V.M., inzh.; KUZNETSOV, V.P., inzh.;
MATSIUK, M.F., inzh.; YAKOVLEV, N.A., inzh.

The "Lugansk Hour" competition in the mines of Luganskugol' Combine.
Ugol' Ukr. 6 no.5:23-26 My '62. (MIRA 15:11)
(Donets Basin—Coal mines and mining)
(Socialist competition)

GRIGOR'YEV, I.A.; KUZNETSOV, V.P.; SIVYY, V.B.

[Determining coal mining potentials and the efficiency of
using them] Vyjavlenie rezervov dobychi uglia i effektivnost'
ikh ispol'zovaniia. Moskva, Nedra, 1964. 99 p.
(MIRA 18:3)

KUZNETSOV, V.P.

Study of the effect of tryptamine sulfate (ecmolin) on
the activity of dehydrogenases and aerobic oxidation in
bacteria. Trudy TSIU 80:112-116 '65. (MIRA 18:11)

KUZNETSOV, V.P.

Effect of triprotamine sulfate on the effectiveness of oxidative phosphorylation and the nucleic acid content in bacterial cells.
Antibiotiki 10 no.2:105-112 F '65. (MIRA 18:5)

1. Kafedra mikrobiologii (zav. - deyatel'nyy chlen AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

KUZNETSOV, V.P.

Device for lifting lime. Suggested by V.P.Kuznetsov. Rats. i
izobr.predl.v stroi. no.8:75-78 '58. (MIRA 13:3)

1. Sotrudnik bazy mekhanisatsii tresta Sevkavtyazhstroy. Po
materialam tresta Sevkavtyazhstroy.
(Lime) (Hoisting machinery)

KUZNETSOV, V.P.; RODIN, N.V.

The AM22-type automatic 80-spindle machine. Biul.tekh.-ekon.
inform. no.11:23-24 '59. (MIRA 13:4)
(Drilling and boring machinery)

PAN'KOV, Valeriy L'vovich; KUZNETSOV, Vladimir Prokof'yevich;
KORNEYEV, S.G., red.; KHAYKINA, A.Ye., nauchn. red.;
POPOV, V.N., tekhn. red.

[Steel arms] Stal'nye ruki. Tamnov, Tambovskoe knizhnoe
izd-vo, 1962. 16 p. (Biblioteka novatora, no.8)
(MIRA 16:10)

(Materials handling)

KUZNETSOV, V.P., kapitan-leytenant

Personal error in observations for the measurement of the altitude
of celestial bodies. Mor.sbor. 46 no.2:65-69 F '63.

(MIRA 16:2)

(Nautical astronomy) (Personoanl equation)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

KUZNETSOV, V.P., kandidat tekhnicheskikh nauk.

Calculation of the strength of block peat. Trudy Inst.torf. AN
SSSR 4:131-137 '55. (MLRA 9:3)

(Peat)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6"

KUZNETSOV, V.P.

Effect of the elasticity of peat on the mechanical treatment.
Trudy inst. torf. AN BSSR 8:245-251 '59. (MIRA 13:12)
(Peat)

KUZNETSOV, V.P.

Studies on the effect of triprotamine sulfate on the activity of
oxidases in the bacterial cell. Antibiotiki 10 no.1:58-64 Ja
'65. (MIRA 18:4)

1. Kafedra mikrobiologii (zav. - deystvitel'nyy chlen AMN SSSR
prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya
vrachey, Moskva.

BELOUS, N.Kh., st. nauchn. sotr.; KAZANSKIY, Yu.P.; VDOVIN, V.V.;
KLYAROVSKIY, V.M.; KUZNETSOV, V.P.; NIKOLAYEVA, I.V.;
NOVOZHILOV, V.I.; SENDERZON, E.M.; AKAYEV, M.S.; BABIN,
A.A.; BERDNIKOV, A.P.; GORYUKHIN, Ye.Ya.; NAGORSKIY, M.P.;
PIVEN', N.M.; BAKANOV, G.Ye.; GEBLER, I.V.; SMOLYANINOV,
N.M.; SMOLYANINOVA, S.I.; YUSHIN, V.I.; D'YAKONOVA, N.D.;
REZAPOV, N.M.; KASHTANOV, V.A.; GOL'BERT, A.V.; SIDOROV,
A.P.; GARMASH, A.A.; LYKOV, M.S.; BORODIN, L.V.; RYCHKOV,
L.F.; KUCHIN, M.I.; SHAKHOV, F.N., glav. red.; SHPAKOVSKAYA,
L.I., red.

[West Siberian iron ore basin] Zapadno-Sibirskii zhelezorudnyi bassein. Novosibirsk, Red.-izd. otdel Sibirskogo otdinia AN SSSR, 1964. 447 p. (MIRA 17:12)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki.
2. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Belous, Kazanskiy, Vdovin, Klyarovskiy, Kuznetsov, Nikolayeva, Novozhilov, Senderzon).
3. Institut gornogo dela (for Akayev).
4. Novosibirskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedor SSSR (for Babin, Berdnikov, Goryukhin, Nagorskiy, Piven').

(Continued on next card)

BELOUS, N.Kh.---(continued). Card 2.

Tomskiy politekhnicheskiy institut (for Lakenov, Geller, Smolyaninov, Smolyaninova). 5. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya (for Yushin, D'yakonova, Rezupov, Kashtanov, Gol'bert). 6. Institut ekonomiki sel'skogo khozyaystva (for Garmash). 7. Sibirskiy metallurgicheskiy institut (for Bykov, Borodin, Rychkov). 8. Tomskiy inzhenerno-stroitel'nyy institut (for Kuchin). 9. Chlen-korrespondent AN SSSR (for Shakhov).

KUZNETSOV, V. R. (Moskva)

Effect of the rate of chemical reaction on the process of
combustion of a fuel drop. Inzh. zhur. 2 no.4:344-349 '62.
(MIRA 16:1)

(Combustion)

L 1659-66 EWT(l)/EWP(m)/EWA(d)/FCS(k)/EWA(1)

ACCESSION NR: AP5021534

UR/0258/65/005/004/0763/0767
533.6.011

AUTHOR: Kuznetsov, V. R. (Moscow)

31
B

TITLE: Turbulence in parallel flows of equal velocity

SOURCE: Inzhenernyy zhurnal, v. 5, no. 4, 1965, 763-767

TOPIC TAGS: turbulent flow, mixed flow, turbulence diffusion, stream mixing

ABSTRACT: The turbulence transfer from a turbulent stream discharging from a plane nozzle into a laminar stream moving at the same velocity is considered. The model is based on the mixing processes described by A. A. Townsend (Struktura turbulentnogo potoka s poperechnym zdvigom. IL, 1959) with eddy diffusion occurring across the flow interface. Based on arguments that the mixing coefficient (probability of turbulence at a given point) has a normal distribution (S. Corrsin and A. L. Kistler. The Free-stream Boundaries of Turbulent Flow. Technical notes NACA, Washington, N3133) and that the eddies interact only weakly among each other (Dzh. Betchelor. Teoriya odnorodnoy turbulentnosti. IL, 1955), it is assumed that the distribution of pulsation energy can be described by the normal diffusion equation. Since the amount of dispersed energy can be described by

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L 1659-66

ACCESSION NR: AP5021534

$$\epsilon = \frac{3}{2} \gamma \frac{(\bar{u}^3)^{1/4}}{L_e}$$

(first reference in this abstract) (where $\gamma \approx 1$; L_e - integral turbulence scale), the equation for the process is given as

$$U \frac{\partial \bar{u}^3}{\partial x} = D(x) \Delta \bar{u}^3 - \frac{\gamma (\bar{u}^3)^{1/4}}{L_e}$$

Since

$$\bar{u}_3 = u_3(x) / \left[\frac{V}{L_e(x)} \right] = u_3 / (v)$$

has to be satisfied and three other simplified conditions can be satisfied by the solution

$$u_3 = A(x + x_0)^{1-\alpha}, \quad L_e = B(x + x_0)^{1-\alpha}, \quad D = C(x + x_0)^{1-\alpha}$$

the differential equation is finally written as

$$\varphi' = \frac{1}{c} \varphi' - \varphi + \varphi^{1/4}$$

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ACCESSION NR: AP5021534

(where

$$\dot{\theta} = \left[\frac{(2-a)UB}{2\pi VA} \right]^a, \quad r = \sqrt{\frac{c(2-a)}{-2B^2 a U}},$$

and $a = -1, -2, -3, \dots$. Townsend (op. cit.) and O. Phillips (The Irrotational Motion outside a Free Turbulent Boundary. Proc. Cambr. Phil. Soc., v. 51, 1955) showed that $a = -4$ away from the axis and neglecting $\phi^{3/2}$ the equation can be integrated as

$$\dot{\theta} = \frac{1}{2} \dot{\theta}_0 \frac{d^2}{dr^2} \left(e^{-\frac{1}{2} \theta^2} \int_0^r r e^{\frac{1}{2} \theta^2} dr \right).$$

The 5 possible solutions depending on the initial flow conditions ($\dot{\theta}_0 > 1$; $\dot{\theta}_0 = 1$; $1.0 > \dot{\theta}_0 > 0.75$; $0.75 > \dot{\theta}_0 > 0.3$, and $\dot{\theta}_0 < 0.3$) are briefly discussed. Orig. art. has 1 figure and 12 formulas.

ASSOCIATION: none

SUBMITTED: 25Apr64

ENCL: 00

SUB CODE: ME

NO REF SOV: 001

OTHER: 004

Card 3/3 DP

KUZNETSOV, V.S.

Clinical picture of diphtheria in the adult. Terap. arkh. 31 no.5:
77-84 My '59. (MIRA 12:7)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V. Bunin) I
Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(DIPHTHERIA
in adults, clin. aspects (Rus))

POKROVSKIY, V.I., kand.med.nauk; BARKOVA, Ye.V.; KUZNETSOV, V.S.

Clinical aspects and therapy of suppurative meningitis induced by
Afanasev-Pfeiffer's bacillus. Pediatrilia 37 no.10:69-74 O '59.

(MIRA 13:2)

1. Iz kafedry infektsionnykh bolezney (zaveduyushchiy - prof. L.V.
Bunin) i Moskovskogo meditsinskogo instituta imeni I.M. Sechenova
(direktor - prof. V.V. Kovarov) i 1-y Moskovskoy klinicheskoy infektsi-
onnoy bol'nitsy (glavnyy vrach - zasluzhennyi vrach RSFSR N.G.
Zaleskver).

(MENINGITIS in inf. & child.)

(HAEMOPHILUS INFLUENZAE infect.)

BULKINA, I.G.; BUNIN, K.V., prof.; KIZNETSOV, V.S.; MIKHAYLOVA, Yu.M.;
NOVAKOVSKAYA, A.A.; POKROVSKIY, V.I.; POLUMORDVINOVA, Ye.D.; SEDLOVETS,
M.P.; STARSHINOVA, V.S.; TSEYDLER, S.A.; SHKHVATSABAYA, T.V.; YAKHON-
TOVA, N.K.; SHERESHEVSKAYA, Ye.F., red.; ZUYEVA, N.K., tekhn. red.

[Pocket manual for the specialist in infectious diseases; clinical
aspects, diagnosis, and treatment] Karmannyi spravochnik infektsionista;
klinika, diagnostika, lechenie. Moskva, Gos. izd-vo med. lit-ry
Medgiz, 1961. 233 p. (MIRA 14:7)
(COMMUNICABLE DISEASES) (MEDICINE--HANDBOOKS, MANUALS, ETC.)

BULKINA, I.G.; BUNIN, K.V., prof.; KUZNETSOV, V.S.; MIKHAYLOVA,
Yu.M.; NOVAKOVSKAYA, A.A.; POKROVSKIY, V.I.; POLUMORDVINNOVA,
Ye.D.; SEDLOVETS, M.P.; STARSHINOVA, V.S.; TSEYDLER, S.A.;
SHKHVATSABAYA, T.V.; YAKHONTOVA, N.K.; KARON, I.I., red.

[Concise manual for infectious disease specialists; clinical
aspects, diagnosis, treatment] Kratkii spravochnik vracha-
infektsionista; klinika, diagnostika, lechenie. Izd.2., dop.
i ispr. Leningrad, Meditsina, 1965. 287 p. (MIRA 18:3)

1. Kafedra infektsionnykh bolezney 1-go Moskovskogo meditsinskogo instituta im. I.M.Sechenova (for all except Karon).

L 24870-66 EWT(d)/EMP(v)/EMP(k)/EMP(h)/EMP(1)

ACC NR: AP6006373

SOURCE CODE: UR/0413/66/000/002/0107/0107

AUTHORS: Kuznetsov, V. S.; Vikhman, V. S.; Leont'yev, K. L.; Zharov, N. A.; Rez, I. S.

ORG: none

46

B

TITLE: An automatic pyrometer of the spectral ratio. Class 42, No. 178146

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 107

TOPIC TAGS: automatic control technology, pyrometer, spectrum analyzer, precision instrument machinery

ABSTRACT: This Author Certificate presents an automatic spectral ratio pyrometer. The pyrometer contains a radiation receiver, an amplifier, an output signal commutator, and an indicator or a slave mechanism. The design shortens the pyrometer response time, increases the instrumental precision, and simplifies the scaling circuit of the pyrometer. The unit has an electro-optical system in the form of a rapid response dispersion light filter with an electro-optical crystal (see Fig. 1). This crystal is switched by an electronic commutator. The output of the circuit controlling the sensitivity of the radiation receiver (to normalize the

Card 1/2

14

2

UDC: 536.521:621.383

L 24870-66

ACC NR: AP6006373

0

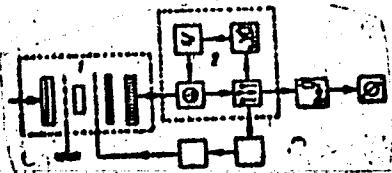


Fig. 1. 1 - rapid response controlled electro-optical light filter; 2 - circuit for controlling the sensitivity of the radiation receiver.

output signal) is connected to one of the outputs of the electronic commutator. The output of the sensitivity control circuit is connected to the outputs of the radiation receiver. Orig. art. has: 1 figure.

SUB CODE: 20,01/4/SUBM DATE: 06Jun64

Card 2/2 data

L 10665-66 EWT(m)/EWA(m)-2 IJP(c)

ACC N^o AP5028314

SOURCE CODE: UR/0057/65/035/011/2004/2011

AUTHOR: Kuznetsov, V.S.; Fidel'skaya, R.P.

14

55,44

66

CRG: none

B

TITLE: Design of accelerator tubes with inclined electrodes

1949.15

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35 no. 11, 1965, 2004-2011

TOPIC TAGS: particle accelerator, electrostatic accelerator, Van de Graaff generator, secondary particle, electron optics

ABSTRACT: Van de Graaff et al. (Nature, 195, 1292, 1962) have shown that voltage breakdown in Van de Graaff-type particle accelerators due to regenerative multiplication of secondary particles can be overcome by constructing the accelerator tube in sections in each of which the plane accelerating electrodes are inclined to the plane normal to the axis, the inclinations being opposite in successive sections. In the present paper advantages are pointed out of so constructing inclined electrode accelerator tubes that the accelerated ion spends the same time in each section. In such an inclined electrode accelerator tube with equal flight-time sections, the effects on the ion motion of the opposite transverse fields in successive sections exactly compensate each other, and less compensating inclination is required of the injected beam than in the case of an accelerator tube with sections of equal length. Moreover, the presence of a long section with uniform transverse field at the output

UDC: 537.533.3

Card 1/2

2

ACC NR: AP5028314

end of the tube minimizes contamination of the beam with low energy particles. The necessary equations are derived for the design of inclined electrode accelerator tubes with equal flight-time sections. In the derivation of the design equations the effects of the prismatic fields in the coupling regions between sections are at first neglected; the effects of the prismatic fields are subsequently calculated and the requisite corrections to the design equations are given. These corrections are found to be negligible in the first approximation. Orig. art. has: 40 formulas and 4 figures.

SUB CODE: 20

SUBM DATE: 18Jan65/

ORIG. REF: 000

OTH REF: 002

Card 2/2 (mu)

KUZNETSOV, V.S.; EFROS, L.S.

Heterocyclic derivatives of substituted 1,4-naphthoquinones.
Part 1: Naphth(2,3-d)imidazole-4, γ -diones. Zhur. org. khim.
1 no.8:1458-1465 Ag '65. (MIRA 18:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lennoveta.

KUZNETSOV, V.S., inzhener.

Experience in developing and applying systems of universal
assembly arrangements at a machine-building plant. [Izd]
LOMITOMASH 24:326-354 '51. (MIRA 8:2)
(Machine tools--Accessories and attachments)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

РУССКИЙ, Т. Г.

Universal-assembly parts in machine-building; album of blue prints. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 211 p. (53-36762)

TJ1125.K85

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6"

KUZNETSOV, V.S., laureat Stalinskoy premii.

For further development of efficiency promotion and inventiveness.
TSvet.met.26 no.4:1-4 Jl-Ag '53. (MIRA 10:10)

1. Moskovskiy kombinat tverdykh splavov.
(Suggestion systems) (Nonferrous metal industries)

KUZNETSOV, V. S. and LYSENKO, B. M.

"Effect of the Elasticity of the Fixing of Turbine Blades at Their Roots on the Natural Frequency of Blade Vibration" Akademiya Nauk URSR, Kiev. Laboratoriya problem bystrokhodnykh mashin i mekhanizmov. Sbornik trudov, 1955, no. 5, p. 179-186, diagrs. 4 Russian refs.

Summary - 519851

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

KUSHUL', M.Ya., kandidat tekhnicheskikh nauk; KUZNETSOV, V.S., inzhener

Problems on the dynamics high speed spindles. Tekst.prom.15 no.10:
30-33 0'55.

(Spinning machinery)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

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CIA-RDP86-00513R000928210012-6"

PHASE I BOOK EXPLOITATION

SOV/3805

Kuznetsov, Vladimir Sergeyevich

Freza vysokoy proizvoditel'nosti (High-Productivity Milling Cutter) [Leningrad] Lenizdat, 1959. 62 p. (Series: Novatory leningradskoy promyshlennosti) 3,000 copies printed.

Ed.: Yu. V. Pchelkin; Tech. Ed.: I.M. Tikhonova.

PURPOSE: This brochure is intended for production workers, particularly for young milling machine operators.

COVERAGE: The author, who is a milling machine operator and inventor associated with the Leningradskiy stankostroitel'nyy zavod imeni Ya. M. Sverdlova (Leningrad Machine-Tool Construction Plant imeni Ya.M. Sverdlov), tells about his occupational background and about his suggestions as to how to improve the technique of mechanical metalworking and how to increase work efficiency. The main emphasis is placed on the description of a newly designed highly-productive roughing end mill cutter. No personalities are mentioned. There are no references.

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

High-Productivity Milling Cutter

CIA-RDP86-00513R000928210012-6

SOV/3805

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Following in the Tracks of V.Ya. Karasev	34
A New High-Productivity Mill Cutter	47
Achievements of Production Innovators--the Property of All Working People	50
AVAILABLE: Library of Congress (TJ1186.K83)	

Card 2/2

VK/wbc/mh
7-28-60

KORITYSSKIY, Ya.I.; KUZNETSOV, V.S.; KORNEV, I.V.; LEBEDEVA, N.N.

High-lifting spindles for large packages. Biul.tekh.-ekon.inform.
no.11:55-57 '59. (MIRA 13:4)
(Spinning machinery)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

KORITYSSKIY, Ya.I.; KUZNETSOV, V.S.; KORNEV, I.V.; LEEDEVA, N.N.

New high-lifting spindle for large packages. Tekst. prom. 19
no.9:32-35 8 '59. (MTRA 12:12)
(Spinning machinery)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6"

PAGE 1 ROCK AUTOMOTIVE

807/2577

- Bukov.** New machine-equipment property Soviet V. N. Dzerzhinsk
Tyumen'skovo-Ural'sk Machine-Tool Plant (Machine Tools for Productivity
Auxiliary Processing Equipment) Novosibirsk, 1956. 275 p.
8,000 copies printed.
- Proprietary Agency:** Gostekhnicheskoye po reprezentativnoy politicheskoy
sistemoy nauchno-tekhnicheskoy i tekhnicheskoy
- Article No. 1.** (Title page). V. V. Danilevskii. (Inside book): A. I. Martynov;
S. S. Sloboda; L. I. P. Gulyayev; R. M. Kuznetsov (for literature on metal-
working and machine-tool construction (mechanics); V. V. Kachurinich,
Bogachev).
- Proposed date publication of articles is scheduled for technical personnel
engaged in the development of auxiliary equipment for metal processing
complexes. This collection contains articles dealing with modern methods
and auxiliary equipment, methods of manufacture, and data on the tech-
nical characteristics of such equipment. The mechanics and
economics aspects of the use of standard auxiliary equipment are
also discussed. In generalization are summarized: recommendations follow
data discussed, in generalization are summarized: recommendations follow
data discussed.
- Danilevskii, V. V.** Standardization Methods-Patent Pictures for Art Production
The author describes the advantages of group methods of parts
manufacture. Pictures illustrated from standard parts and assemblies.
- Dzerzhinsk.** V. N. Dzerzhinsk Machine-Tool Plant
Development and Distribution of Adjustable Machine-Tool
Pictures. J. A. Development and Distribution of Adjustable Machine-Tool
Pictures. The author describes pictures which can easily adapt for use on
circular parts by simple replacement of certain elements of the pictures.
Illustrations.
- Dzerzhinsk.** V. N. Dzerzhinsk Machine-Tool Plant
Development and Distribution of Adjustable Machine-Tool
Pictures. The author describes the methods of classification pictures for the
standard, adjustable, and universal types of parts and machinery. In
the picture, the author gives the principles of classification pictures of individual
machines.
- Dzerzhinsk.** V. N. Dzerzhinsk Machine-Tool Plant
Development and Distribution of Adjustable Machine-Tool
Pictures. The author describes a method of article by example with specially
designed class of all one design. By means of classification a set
of 4 to 10 class can produce a large variety of parts.
- Dzerzhinsk.** V. N. Dzerzhinsk Machine-Tool Plant
Development and Distribution of Adjustable Machine-Tool
Pictures. The author describes the use of such materials as concrete, plastic-
like polymers, composites, and rubber in the manufacture of standard-
size equipment.
- Dzerzhinsk.** V. N. Dzerzhinsk Machine-Tool Plant
Development and Distribution of Adjustable Machine-Tool
Pictures. The author describes the use of standard-size pictures
for manufacturing of universal tools, in the use of such tools
extremely economy of metal, durability and low
cost.
- Dzerzhinsk.** V. N. Dzerzhinsk Machine-Tool and Auxiliary Plant
The author deals with the standardization of standard-size pictures for
making of auxiliary parts. Special methods of standardization and
special methods for handling bare and utilized tools. The standardiza-
tion of other types of allied existing tools is also discussed.

KU2 net issue U.S.

KUZNETSOV, V.S.; PONOMAREV, V.A.; MOISEYEV, M.P., inzh., retsenzent; KASPEROVICH, N.S., inzh., red.; UVAROVA, A.F., tekhn. red.

[Multipurpose attachments with interchangeable parts and in the machinery industry; album of drawings] Universal'no-sbornye pri-sposobleniya v mashinostroenii; al'bom chertezhei. 2. izd., ispr. i perer. Moskva, Mashgiz, 1962. 228 p. (MIRA 15:9)
(Machine tools--Attachments)

KUZNETSOV, V.S.; PONOMAREV, V.A.; KUZ'MIN, V.V., inzh., retsenzent;
BERKOVICH, D.M., kand. tekhn. nauk, red.

[System of multipurpose attachments with interchangeable
parts used in the machinery industry] Sistema universal'no-
sbornykh prispособлений в машиностроении. Moskva, Mashino-
stroenie, 1964. 269 p. (MIRA 17:12)

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CIA-RDP86-00513R000928210012-6

MISHCHEVICH, V.I.; KUZNETSOV, V.S.; ASTAF'YEV, P.I.

Use of axial pumps in oil well drilling. Neft. khoz. 43 no.6:
56-60 Je '65. (MIRA 18:7)

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CIA-RDP86-00513R000928210012-6"

ACC NR: AT7007344

SOURCE CODE: UR/3092/66/000/005/0110/0126

AUTHOR: Kuznetsov, V. S.

ORG: none

TITLE: High-intensity beams with ribbon geometry and with arbitrary distributions of current densities and transverse velocities

SOURCE: Moscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury. Elektrofizicheskaya apparatura. Sbornik statey, no. 5, 1966, 110-126

TOPIC TAGS: particle beam, electron optics, high intensity beam, Gaussian distribution, particle trajectory, particle symmetry

ABSTRACT: The usual simplifying assumptions of uniform current density and homocentric (proportional to y) distribution of the transverse velocity component V_y are not made in this generalized theory. Here, it is assumed only that the beam parameters are independent of x (ribbon geometry), and that particle trajectories make small angles with some plane of symmetry xoz of the beam (paraxial case). The field is then zero in xoz and it is Gaussian at other points. The transverse component of the velocity can be obtained independently of the longitudinal component (beam velocity), in the same way as in the case of a layer

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ACC NR:AT7007344

distribution of electric charges, i.e., the electric density depends only on y . The problem is solved for any initial distribution of density and velocity with respect to y , and for any time interval in which trajectories do not intersect. The theory is applied to the case of an initially Gaussian density distribution with zero transverse velocity. It is shown that with increasing time, the density approaches uniform distribution, and the velocity, homocentric distribution. The use of a perfect lens in the focusing of a beam with the preceding initial parameters is also investigated in detail. The solution for a beam of initially uniform current density and homocentric distribution of the transverse velocity component is derived as a special case of the general theory. Orig. art. has: 3 figures and 77 equations.

[WA-71]
[JM]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 002

Card 2/2

L 08831-67 LWT(1) SCTB DD/GD

ACC NR: AT6036691

SOURCE CODE: UR/0000/66/000/000/0396/0397

AUTHOR: Yuganov, Ye. M.; Mirzoyev, B. N.; Krylov, Yu. V.; Kuznetsov, V. S.

31

ORG: none

TITLE: Material for the physiological and hygienic establishment of permissible levels of noise pulses (acoustic shock waves) [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 396-397

TOPIC TAGS: acoustic biologic effect, sonic boom, electroencephalography, psychophysiology, blood chemistry, endocrinology

ABSTRACT:

Supersonic aviation has added acoustic shock (the impact of pulsed noise, commonly called a sonic boom) to the range of noise effects. Physiological and hygienic norms for the intensity of acoustic shock must be established for future use in civil aviation. Foreign literature devoted to the effect of acoustic shock on man emphasizes its psychoacoustic effect. In these studies the effect of acoustic shock on human physiological functions was also studied. The function of auditory, vestibular, and motor analyzers

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ACC NR: AT6036691

was investigated, together with cardiovascular activity, mental working capacity, electrocutaneous resistance, and hormone and carbohydrate metabolism. EEG's and EKG's were also recorded.

Two series of experiments were conducted with human subjects: in the first the effect of a single acoustic shock with an intensity of 2.5, 5.0, or 7.5 kg/m² was studied, and in the second the cumulative effect of acoustic shock was investigated for 5 days.

Experimental results showed no reliable physiological changes under the influence of a single acoustic shock with an intensity of 2--2.5 kg/m². However, an acoustic shock of 5--5.5 kg/m² causes shortening of the R--R₁ interval of an EKG and decrease in the speed of arithmetical calculation. After single acoustic shocks of 7--7.5 kg/m², a moderate and brief disruption of the quality and speed of arithmetical calculation was noted. In addition, desynchronization of the alpha-rhythm and decrease in its amplitude were observed, as well as quickening of the pulse. Repeated and cumulative effects of acoustic shocks in the 7--7.5 kg/m² intensity range pro-

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duced changes [not described] in mental working capacity, EEG, EKG, and in the function of the auditory, vestibular and motor analyzers. However, there were no major discrepancies in humoral and endocrine function. Repeated acoustic shocks with an intensity of 0--9.5 kg/m² caused unfavorable psychoacoustic reactions, accompanied by shuddering and fright. Subjects complained of headaches, noise, and a full and stuffy feeling in the ears. Otoscopic examination showed small hemorrhages in tympanal epithelium. At the same time, the corticosteroid level in the blood increased reliably, indicating activation of the pituitary-adrenal system. Changes in other physiological functions conformed to the pattern described above. The cumulative effect of acoustic shocks of 0.5 kg/m² is demonstrated by the relative degree of physiological change produced under these conditions and by the unfavorable psychoacoustic reactions. [N.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

100
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L 07334-67 EWT(d)/EWT(m)/EWP(v)/EWP(k)/EWP(h)/EWP(l) DJ
ACC NR: AP6012162 (A,N) SOURCE CODE: UR/0413/66/000/007/0086/0087 41 B

AUTHORS: Shchemelinin, A. A.; Umarov, A. S.; Topolov, A. A.; Kuznetsov, V. S.

ORG: none

TITLE: Pendulum vibration preventer. Class 46, No. 180430 [announced by Kolomna Diesel Construction Plant im. V. V. Kuybyshev (Kolomenskiy teplovoystroitel'nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 86-87

TOPIC TAGS: vibration, vibration damping, pendulum

ABSTRACT: This Author Certificate presents a pendulum vibration preventer, for instance, for a diesel engine. The preventer contains a hub on a knuckle roller. The hub carries a set of pendula suspended through fingers. These pendula are made in the form of weights rocking in the plane perpendicular to the axis of the roller and diminishing its rotational vibrations. To eliminate the longitudinal and the transverse vibrations, a second set of pendula is so placed that the plane of its movement lies on the rotation axis of the roller (see Fig. 1). This second set of pendula may be made in the form of weights held by the fingers on bearings fixed to

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UDC: 621.43-752.35

L 07334-67

ACC NR: AP6012162

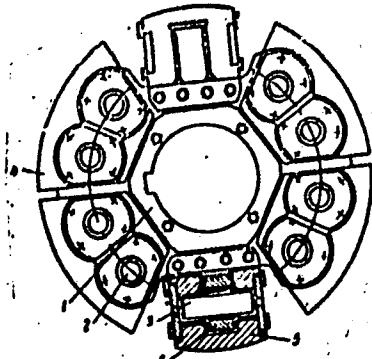


Fig. 1. 1 - hub; 2 and 3 -
fingers; 4 and 5 - pendula;
6 - bearings

the hub. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 20Apr64

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vmb

L 34864-66 EWT(1) LJP(c)

ACC NR: AP6009178

SOURCE CODE: UR/0146/65/008/005/0080/0085

AUTHOR: Kuznetsov, V. S.

39

B

ORG: Moscow Aviation Institute (Moskovskiy aviatzionnyy institut)

TITLE: Determining ambient-temperature and supply-voltage variations tolerable
for stable operation of ferrite-transistor elements 25

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 5, 1965, 80-85

TOPIC TAGS: ferrite switch, computer design, computer reliability, TRANSISTOR

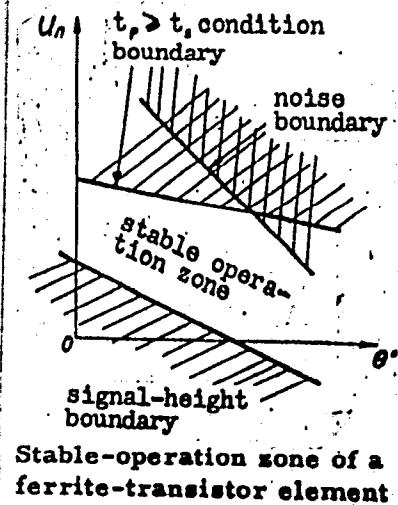
ABSTRACT: Conditions of stable operation of a ferrite-transistor element are
theoretically considered. Assumptions: 1-f operation, no core heating, non-
saturation of transistor. The element operation is considered stable if the noise
is suppressed or at least is not amplified and if the desirable signal is amplified
or at least is not weakened. The read field in the element and in the load

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UDC: 681.142.61

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ACC NR: AP6009178



O
dependence on the ambient temperature is analyzed. The formulas describing this dependence permit constructing a plot of the stable-operation zone in U_p / θ' coordinates (see figure), where U_p is the pulse voltage and θ' is the ambient temperature; t_p is the pulse duration; t_s is the core-switching time. The method can be extended over all elements and subassemblies of the electronic equipment in question. Orig. art. has: 4 figures and 14 formulas.

SUB CODE: 09 / SUBM DATE: 28Dec64 / ORIG REF: 002

Card 2/2 VEB

L 21828-66 EWP(m)/EEC(k)-2/EWA(h)/EWP(k)/EWT(d)/EWT(1)/EWT(m)/ETC(m)-6/T-2
ACC No: AP6003451 SOURCE CODE: UR/0216/66/000/001/0014/0020
EWA(d)/FSS-2/EWP(w)/EWP(v) TT/EM/GW
AUTHOR: Yuganov, Ye. M., Krylov, Yu. V., Kuznetsov, V. S.

ORG: none

TITLE: Some problems of development of an optimal acoustic environment in
spaceship cabins,¹⁰

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1966, 14-20

TOPIC TAGS: noise tolerance, manned spaceflight, life support system, auditory analyzer

ABSTRACT: The effect of high-frequency (up to 3000 cps) noise (60-76 db) on the human auditory analyzer was studied for periods of up to 60 days in order to determine the acceptable threshold value of life-support system noise in manned spacecraft. Factors such as hypokinesia, restrictive clothing, capsule living conditions, and the monotony of sound were taken into consideration. Continuous noise for 72 hours raised the auditory threshold by 15-20 db and 10-day experiments resulted in a 20-25 db increase with functional disorders of the auditory analyzer after 10 days. Intermittent noise (up to 7 hrs/day) showed a cumulative

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UDC: 629.195.2:534.83

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ACC NR: AP6003451

effect only after months or years. Acceptable lower and upper limits for background noise in spacecraft cabins were found to be 50 and 60 phons for periods up to 30 days. An excessively low noise level is harmful to the neuropsychic system. To lessen the effects of monotony, changes in amplitude and frequency are recommended, but volume should not exceed 58-60 phons. [BM]

SUB CODE: 06,22/SUBM DATE: 26Jul65/ ORIG REF: 010/ OTH REF: 010

Card 2/2 net

YUGANOV, Ye.M.; KRYLOV, Yu.V.; KUZNETSOV, V.S.

Some problems of the development of an optimal acoustic environment
for a manned space cabin. Izv. AN SSSR. Ser. biol. 31 no.1:14-20
Ja-F '66.
(MIRA 19:1)

1. Submitted July 26, 1965.

KUZNETSOV, V.S., dotsent, kand. sel'skokhoz. nauk; BEBIN, S.I. assistant

Agrobiological basis for the pinching back of forage beans.
Izv. TSKHA no. 1:100-109 '65 (MIRA 19:1)

1. Kafedra rustemiyevodstva Moskovskoy sel'skokhozyaystvennoy
ordena Lenina akademii imeni Timiryazeva.

BAGATEV, S.N.; KUZNETSOV, V.S.; TROITSKIY, Yu.V.; TROKHIN, B.I.

Spectral characteristics of a gas laser with a traveling
wave. Pis'. v red. Zhur. eksper. i teoret. fiz. 1 no.4
21-24 My '65. (MIRA 18/11)

1. Institut fiziki poluprovodnikov Sibirskogo otdeleniya AN
SSSR. Submitted April 14, 1965.

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CIA-RDP86-00513R000928210012-6

KUZNETSOV, V. S.

"Partial Sterility and Artificial Pollination of Rye," Ordona Lenina Sel'sk. Akademii im. Timiryazev, Vol. 9, pp 26-27, 1949

Translation U-3401, 30 Apr 53

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6

KUZNETSOV, V. S.
KUZNETSOV, V. S.

Methods of increasing long fiber flax yields, Moskva, Znanie, 1953. 31 p. (Seria
5, no. 29)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210012-6"

KUZNETSOV, V. S.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-23, 14 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Dedicated by</u>
Sokolov, N. S.		
Yarkov, S. P.	"Elements in Farming" (textbook)	Moscow Agricultural Academy imeni K. A. Timiryazev
Chizhevskiy, M. G.		
Cherkasov, A. A.		
Shestakov, A. G.		
Gulyakin, I. V.		
Peterburgskiy, A. V.		
Troitskiy, A. N.		
Luk'yanyuk, V. I.		
Savzdarg, E. E.		
Trofimovich, A. Ya.		
<u>Kuznetsov, V. S.</u>		
Kudryavtsev, N. Ye.		
Pronin, A. F.		
Alekhin, N. V.		
Sachli, S. N.		

SP: W-3664, 7 July 1954

KUZNETSOV, V. S. Doc Ag^r Sci -- (diss) "Biological Foundations
for the ^{Cultivation} Breeding of Winter Rye." Mos, 1957. 30 pp 19 cm.
(Min of Agriculture USSR, Len Agricultural Inst), 110 copies
(KL, 17- 57, 97)

- 44 -

KUZNETSOV, V. S., Cand Agr Sci -- (diss) "Selective strengthening of summer barley /from seed planted in the spring/ in the Krymskaya oblast." Khar'kov, 1960. 16 pp; (Ministry of Agriculture Ukrainian SSR, Khar'kov Order of Labor Red Banner Agricultural Inst im V. V. Dokuchayev); 150 copies; free; (KL, 26-60, 141)

MAY SURYAN, N.A., akademik; STEPANOV, V.N., prof.; KUZNETSOV, V.S.,
dots.; LUK'TANYUK, V.I., dots.; CHERNOMAZ, P.A., dots.;
OZEROV, V.N., red.

[Plant growing] Rastenievodstvo. Izd.2., perer. [By] N.A.
Maisurian i dr. Moskva, Kolos, 1965. 471 p.
(MIRA 18:4)

ACC NR: AT6036602

SOURCE CODE: UR/0000/66/000/000/0239/0240

AUTHOR: Kuznotsov, V. S.

ORG: none

TITLE: Some features of the organism's reaction to acoustic pressure pulses
[Paper presented at the Conference on Problems of Space Medicine held in Moscow -24-27 May]
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,
Moscow, 1966, 239-240

TOPIC TAGS: acoustic biologic effect, sonic boom, human physiology,
electroencephalography

ABSTRACT:

Experiments were conducted to study some indices of the human reaction to acoustic shock, imitating the sonic boom of supersonic aircraft. Changes in electrical activity of the cerebral cortex were studied according to EEG's and autonomic reactions. In addition, pulse rate, respiration and the cutaneous-galvanic reaction were investigated. Acoustic shocks with intensities of 2.5, 5, 7.5, and 9.5 kg/m² and duration of 150 msec were used as stimuli. These shock levels correspond to 121 db, 128 db, 131 db, and 133 db, respectively, above an audibility threshold of 2.10⁻⁴ bar. EEG's

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