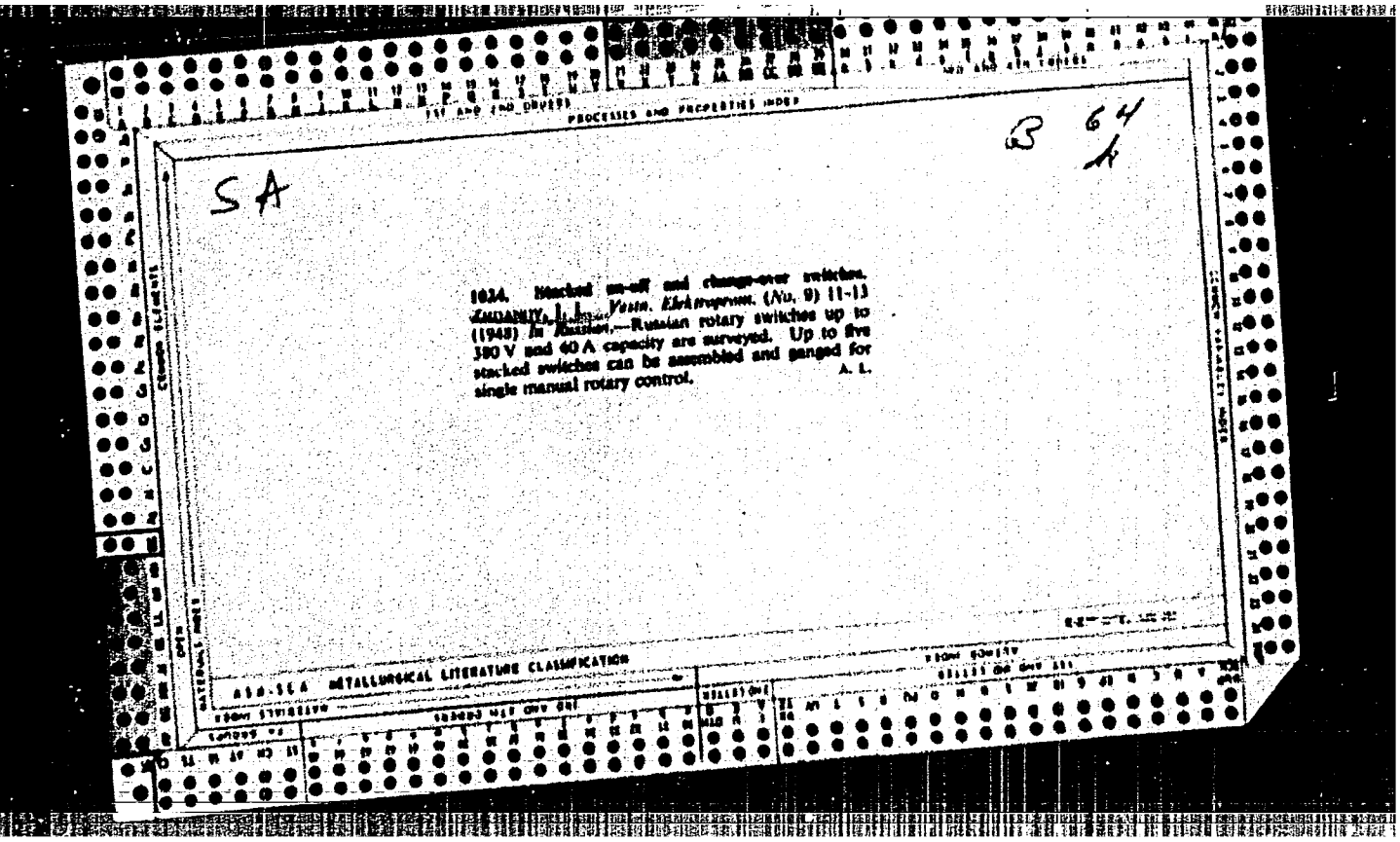


SA

B 64
A

1034. Stacked on-off and change-over switches. ZAHARIYA, I. I. *Vestn. Elektroprom.* (No. 9) 11-13 (1948) In Russian.—Russian rotary switches up to 380 V and 40 A capacity are surveyed. Up to five stacked switches can be assembled and ganged for single manual rotary control. A. L.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZHDANOV, I. M. , LIPSHITS, B. S. & RODZYANKO, V. F.

"Automatic Telephone Stations," published by the State Communications and Radio Literature, Moscow , 1945. 200 pp. and 4 diagrams.

ZHDANOV, I. M.

USSR/Miscellaneous - Book review

Card 1/1 Pub. 133 - 18/18

Authors : Zhdanov, I. M., Dr. of Tech. Sc.; and Rodayanova, V. S., Cand. of Tech. Sc.

Title : Critique and bibliography. E. V. Markhay's "Bases for Technical-Economical Planning of City Telephone Networks"

Periodical : Vest. svyazi 12, 32-33, Dec 1954

Abstract : A review of a book by E.V. Markhay entitled, "The Bases for Technical-Economical Planning of City Telephone Networks", is presented.

Institution : ...

Submitted : ...

ZHDANOV, L.M.; ROMANOVSKIY, V.B.; DOLUKHANOV, M.P.; ZLOTNIKOV, S.A.; KONDRAT'YEV, A.G.; ODNOL'KO, V.V.; ROGITSKIY, V.Yu.; FOMICHEV, I.N.

Professor P.V. Shmakov. Elektrichestvo no.1:94 Ja '56. (MLRA 9:3)
(Shmakov, Pavel Vasil'evich, 1885-)

112-1-2376

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 348 (USSR)

AUTHOR: Zhdanov, I.M.

TITLE: Zoning in City Telephone Systems (Rayonirovaniye v gorodskikh telefonnykh setyakh)

PERIODICAL: Sbornik nauch. rabot po provodnoy svyazi. Nr 5, Moscow, AN SSSR, 1956, pp.25-64

ABSTRACT: Basic problems of zoning a city exchange are presented and several new developments for the optimal construction of a multi-office city exchange are presented. Subscriber's as well as junction circuits of the multi-office city exchange are investigated and calculation methods of their length with an even distribution of subscribers and stations, and also accounting for the influence of irregularities are presented. Computation data in respect to systems of various capacities are given.

From the author's summary.

Card 1/1

25(1) SOV/135-59-3-9/24

AUTHORS: Khrenov, K.K., Academician, and Zhdanov, I.M., Engineer

TITLE: An Instrument for Measuring Temporary Welding Deformations (Pribor dlya izmereniya vremennykh svarochnykh deformatsiy)

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 3, pp 16-18 (USSR)

ABSTRACT: This deformation-meter "DRV-2" is designed for the experimental determination of the deformations taking place during the welding process, and the subsequent cooling of metal frame structures. The instrument is of indicator type design and measures the crosswise deformations of a joint. It can also measure the lengthwise deformations in slightly heated areas in a welded joint. Detailed design information is given and the computations to be made are illustrated by examples. The measurement errors caused by the design features do not exceed 0.06 % and can be increased up to 0.25 % by an inaccurate setting.

Card 1/2

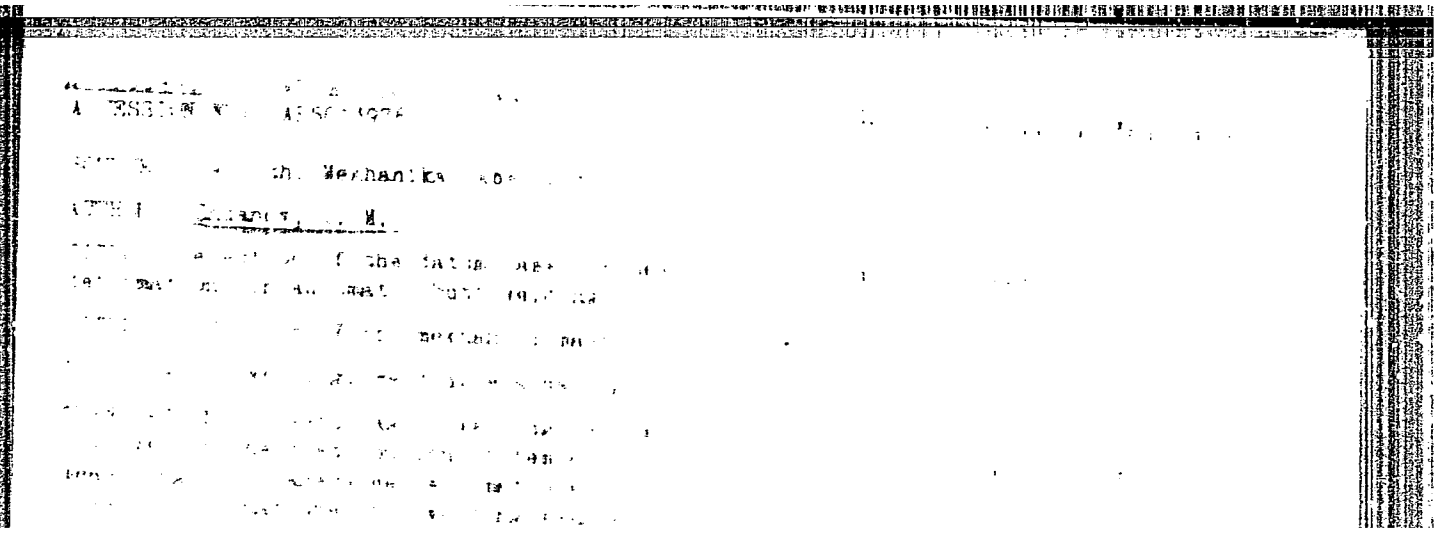
SOV/135-59-3-9/24

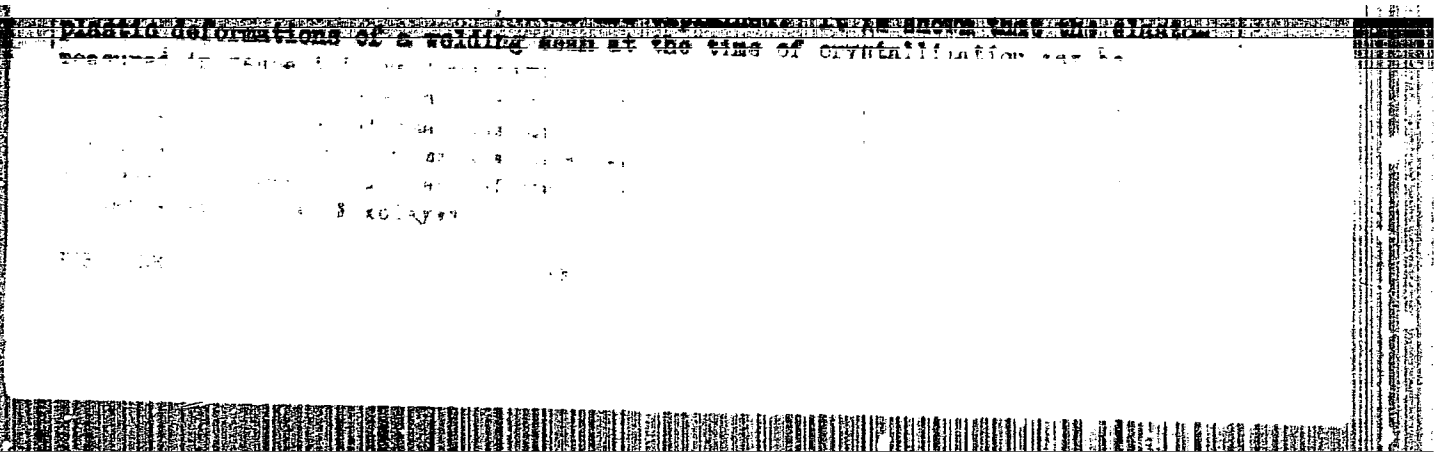
An Instrument for Measuring Temporary Welding Deformations

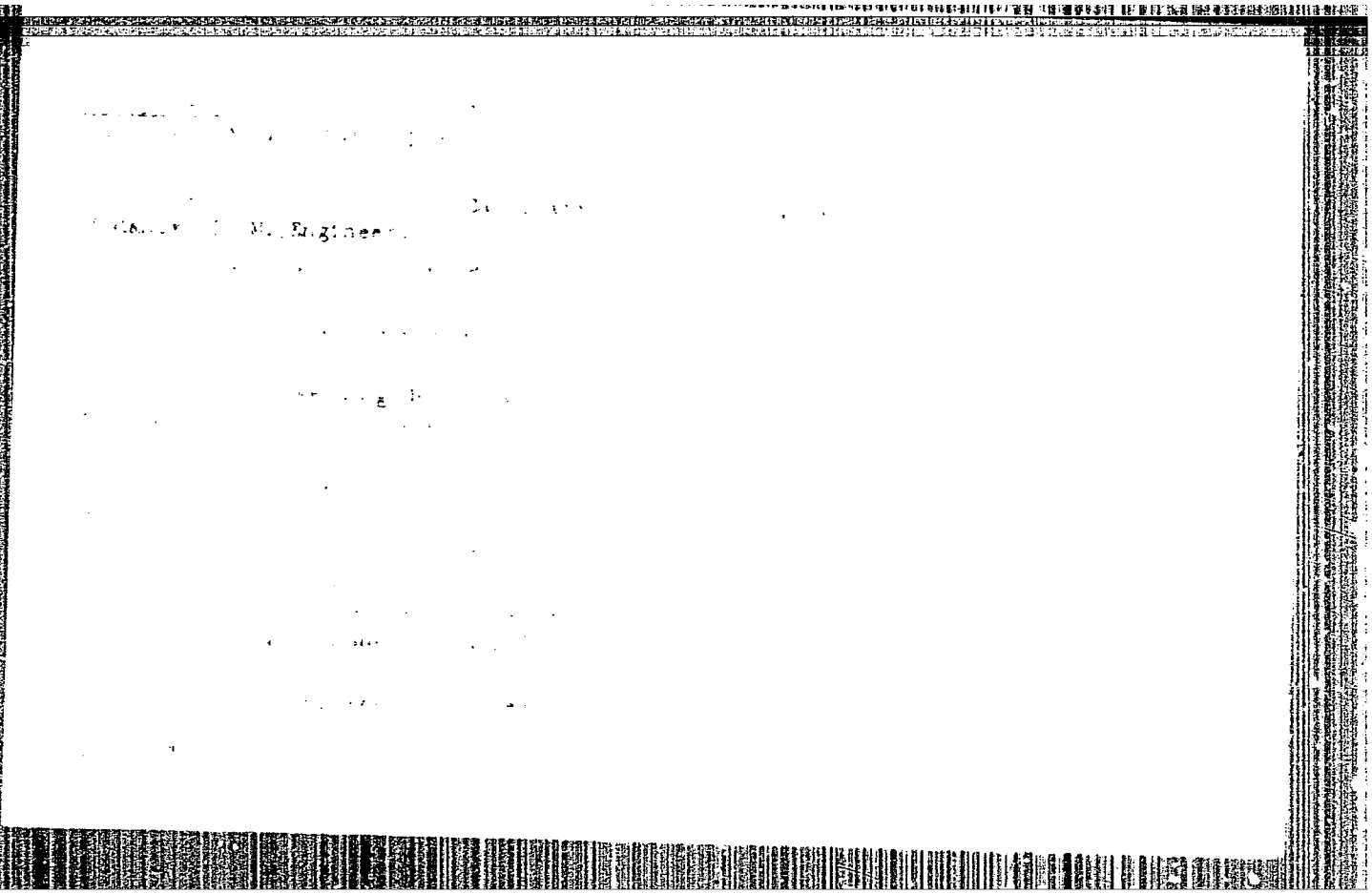
There are 2 photographs and 3 diagrams.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (The Kiyev Polytechnical Institute)

Card 2/2







ZHDANOV, I.M., inzh.; KOPERSAK, N.I., kand.tekhn.nauk

Distribution of lateral deformations along the welded seam in a butt joint. Mashinostroenie no.4:71-74 Jl-Ag '63. (MIRA 17:2)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.

KUSHNIR, F.V., ovt.red.; GAVRILOV, A.F., zaslushennyy deyatel' nauki i tekhniki, prof., red.; DOLUKHANOV, M.P., prof., red.; YEGOROV, K.P., dots., red.; ZHDANOV, I.M., prof., red.; ZELYAKH, E.V., prof., red.; ZELIGER, N.B., prof., red.; LEBEDEV, K.N., dots., red.; ODNOL'KO, V.V., dots., red.; ROMANOVSKIY, V.B., [deceased], dots., red.; FOMICHEV, I.N., dots., red.; SHINIBEROV, P.Ya., dots., red.; SHMAKOV, P.V., zaslushennyy deyatel' nauki i tekhniki prof., red.; GAL'CHINSKAYA, V.V., tekhn.red.

[Structure and reactivity of organic compounds] Voprosy stroeniia i reaktsionnoi sposobnosti organicheskikh soedinenii. Leningrad, 1959. 372 p. (Leningrad. Elektrotekhnicheskii institut sviazi. Trudy, no.8). (MIRA 13:11)

(Chemistry, Organic) (Chemical structure)

ZHDANOV, I.M.

Deformeter for remote measuring of welding deformations. Izm.tekh. no.7:13-14 Jl '62. (MIRA 15:6)
(Strain gauges)

S/115/62/000/007/002/008
E194/E455

AUTHOR: Zhdanov, I.M.

TITLE: A strain meter for remote measurement of welding strains

PERIODICAL: Izmeritel'naya tekhnika, no.7, 1962, 13-14

TEXT: The Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev "Order of Lenin" Polytechnical Institute) has developed a strain meter for automatically indicating and recording welding strains. Through leverage, displacement at the base of the instrument is transmitted to the strain-measuring element. This consists of a transparent plastic ring of rectangular cross-section carrying four wire strain gauges, two on the inside diameter, two on the outside, with their centres normal to the direction of strain of the ring. The strain gauges are of constantan wire 0.030 mm diameter and each has a resistance of 250 ohms, forming a four-arm bridge. Supply is from a six-volt accumulator and readings are by millivoltmeter. It is shown that there is a linear relationship between the change in voltage, the change in length and the ring thickness and so a suitable value of ring

Card 1/2

thickness is readily chosen. If the direction of strain is uncertain, or reversible, a nominal zero reading is first established by applying to the ring an initial strain equal to half the expected strain, by means of an adjusting screw. Over spans of 100 and 50 mm, maximum welding strains seldom exceed ± 1.0 and ± 0.5 mm respectively. The strain on the ring should then exceed 2 and 1 mm respectively and experience shows that with 6 V supply, using a pyrometer millivoltmeter for indication, the ring thicknesses should be respectively 1 and 2 mm. There are 2 figures.

ZHDANOV, I.M., inzh.

Deformations of the weld metal in the crystallization process during automatic welding. Svar.proizv. no.4:26-28 Ap '62. (MIRA 15:3)

1. Kiyevskiy politekhnicheskiy institut.
(Electric welding--Testing) (Deformations (Mechanics))
(Crystallization)

ZHDANOV, I.M.

Formation of telephone districts under conditions of nonuniform density. Elektrosviaz' 15 no.4:60-68 Ap '61. (MIRA 14:9)
(Telephone, Automatic)

S/137/62/000/003/161/191
A160/A101

1.2300

AUTHOR: Zhdanov, I. M.

TITLE: Some experimental data on the development of internal deformations in the process of automatic single-pass butt welding

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 6, abstract 3E38. (Sb. nauchn. tr. aspirantov Kiyevsk. politekhn. in-ta, Kiyev, 1961, 175 - 182)

TEXT: Investigated are the internal deformations, acting in a perpendicular direction to the seam, to which the butt weld is subjected in the process of metal crystallization during the automatic single-pass welding of a low-carbon steel. The development of such deformations is one of the causes leading to the formation of hot longitudinal cracks in welds. The following conclusions are drawn: (1) During the single-pass welding, when the cooling metal is in a temperature range of brittleness, the transverse free temperature deformation will be close to zero. (2) The transverse deformations (the actual ones) arising during the process of the actual butt-joint welding are not generally constrained. They may change within a wide range, depending on the concrete combination of constructional

Card 1/2

Some experimental data on the .....

S/137/62/000/003/161/191
A160/A101

and technological conditions. The crystallizing metal of the seam in a welded joint may undergo internal deformations appearing both as compressions and expansions and also changing within a wide range.

V. Tarisova

[Abstracter's note: Complete translation]

Card 2/2

S/135/62/000/004/010/016
A006/A101

1.7300

AUTHOR: Zhdanov, I. M., Engineer

TITLE: On deformation of the weld metal during the crystallization process in automatic welding

PERIODICAL: Svarochnoye proizvodstvo, no. 4, 1962, 26-28

TEXT: Results are given of the experimental determination of shrinkage stresses in welding 10 mm thick grade St.3 steel specimen, carried out at the Kiyev Polytechnic Institute. A simulation system of hindered shrinkage and typical cases of the development of stresses in natural weld joints were applied. The model specimens were automatic-butt-welded with Св-08А (Sv-08A) wire, 4 mm in diameter, under АН-348 (AN-348) flux, at 750 amps current, 34 v arc voltage, 36 m/hour welding speed. It was found that the system of hindered shrinkage, which is the basis of existing concepts on the deformation of the weld metal during crystallization, is not in agreement with the experimental data obtained. This process cannot be used to explain tensile stresses developing at a high rate and low rigidity of the weld joint, or compressive stresses in the crystallizing weld. The experimental data show that stresses of the solidifying weld

Card 1/2

metal are basically affected by forces, developing in the whole weld joint, which do not depend on temperature stresses occurring in a given section. In natural welded joint the crystallizing metal is subjected to internal stresses, both tensile and compressive, whose magnitude and rate vary within a wide range. There are 2 figures and 4 Soviet-bloc references.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic Institute)

SHAPIRO, S.Ye., dotsent; ZHDANOV, I.S., kand.med.nauk; CHAPOVSKAYA, L.P., mladshiy nauchnyy sotrudnik

Egg products as a source of paratyphoid B. Gig.i san. 26 no.1: 112-114 Ja '61. (MIRA 14:6)

1. Iz Khabarovskogo instituta epidemiologii i gigiyeny i kliniki infektsionnykh bolezney Khabarovskogo meditsinskogo instituta.
(PARATYPHOID FEVER) (EGGS—MICROBIOLOGY)

SHAPIRO, S.Ye.; ZHDANOV, I.S.; BARYSHNIKOVA, A.I.; KIREYEVA, R.Ya.; CHAPOVSKAYA, L.G.; KRUPNIKOVA, A.M.; PODKOSOVA, N.I.

Analysis of an outbreak of paratyphoid B caused by infected chicken egg products. Zhur. mikrobiol. epid i immun. 31 no.6:26-31 Je '60. (MIRA 13:8)

1. Iz Khabarovskogo instituta epidemiologii i gigiyeny, Meditsinskogo instituta i Gorodskoy sanitarno-epidemiologicheskoy stantsii.
(KHABAROVSK—PARATYPHOID FEVER)
(FOOD CONTAMINATION)

ZHDANOV, I.S.; DOBRUSIN, Ya.I.

Shifts in the indices of child mortality in Khabarovsk for a 20 year period and an analysis of the causes for it for the year 1958. Trudy Khab.med.inst. no.20:183-186 '60. (MIRA 15:10)

1. Iz Khabarovskogo instituta epidemiologii i gigiyeny (dir. A.M. Krupnikova).

(KHABAROVSK--CHILDREN--MORTALITY)

LENKINA, M.S.; ZHDANOV, I.S.

Indices of antidiptheria immunity in children having previously had measles or whooping cough, based on the Schick and indirect hemagglutination reactions. Zhur. mikrobiol., epid. i immun. 40- no.4:16-19 Ap '63. (MIRA 17:5)

1. Iz Khabarovskogo instituta epidemiologii i mikrobiologii.

ZHDANOV, I.S.; DOBRUSIN, Ya.I.

Longevity (mortality) table for the population of Khabarovsk.
Trudy Khab.med.inst. no.20:231-233 '60. (MIRA 15:10)

1. Iz kafedry infektsionnykh bolezney (zav. dotsent S.Ye.Shapiro) Khabarovskogo meditsinskogo instituta i Khabarovskogo instituta epidemiologii i gigiyeny (direktor A.M.Krupnikova).
(KHABAROVSK--MORTALITY)

KRUPNIKOVA, A.M.; ZHDANOV, I.S.; KIREYEVA, R.Ya.

Data from a study of tick-borne typhus in Khabarovsk Territory. Sov.med. 25 no.1:39-44 Ja '61. (MIRA 14:3)

1. Iz Khabarovskogo instituta epidemiologii i mikrobiologii (direktor A.M.Krupnikova) i kliniki infektsionnykh bolezney (zav. - dotsent S.Ye.Shapiro) Khabarovskogo meditsinskogo instituta (direktor - prof. S.K.Nechepayev).

(KHABAROVSK TERRITORY—TYPHUS)

ZHDANOV, I.S.

Sanitary protection of natural waters; a discussion on V.P.Orlov's article "Natural waters must be pure." Gig. i san. 22 no.7:63-65 Jl '57. (MIRA 10:10)

1. Iz kafedry gigiyeny Khabarovskogo meditsinskogo instituta i Khabarovskoy krayevoy sanitarno-epidemiologicheskoy stantsii. 2. Gosudarstvennyy sanitarnyy inspektor.
(WATER--POLLUTION)

SHAPIRO, S.Ye., dotsent; KONSTANTINOV, A.A., dotsent; ZHDANOV, I.S., kand. med.nauk; ZELENSKAYA, M.I., kand.med.nauk

Data of clinical, epidemiological, and biochemical studies on hemorrhagic nephrosonephritis. Sov.med. 25 no.1:64-70 Ja '61. (MIRA 14:3)

1. Iz Khabarovskogo instituta epidemiologii i mikrobiologii (direktor A.M.Krupnikova) i kliniki infektsionnykh bolezney (zav.-dotsent S.Ye. Shapiro) Meditsinskogo instituta (direktor - prof. S.K.Nechepayev).

(EPIDEMIC HEMORRHAGIC FEVER)

ZHDANOV, I.S.; EVANS, N.A.

Results of a hygienic examination of newly build dwellings in Komsomol'sk-na-Amure. Gig. i san. 21 no.11:65-67 N '56. (MLRA 10:2)

1. Gosudarstvennyy sanitarnyy inspektor (for Zhdanov, Evans)
(HOUSING
modern, hygienic aspects in Russia)
(HYGIENE
hygienic aspects of modern housing in Russia)

ZHDANOV, I. S., Master Med Sci —(diss) "A medical appraisal of the Amur river as a source of water supply for Khabarovsk city." Khabarovsk, 1957, 15 pp. (Khabarovsk State Med Inst), 250 copies.

(KL, No 40, 1957, p. 95)

ZHDANOV, I.S.

Session devoted to the 100th anniversary of the founding of Khabarovsk. Zhur.mikrobiol.epid. i immun. 30 no.3:158 Mr '59. (MIRA 12:5)

(COMMUNICABLE DISEASES)

ZHDANOV, I.S.

Activities of V.A.Uglov in the Far East. Gig. i san. 21 no.6:80-81 Je '56. (MLRA 9:8)

1. Gosudarstvennyy sanitarnyy inspektor Khabarovskogo kraya
(BIOGRAPHIES,
Uglov, V.A.(Rus))

ZHDANOV, I.S.

Public health in the Far East during the first years of the Soviet government. Sov.zdrav. 13 no.2:40-44 Mr-Ap '54. (MLRA 7:4)

1. Zamestitel' zaveduyushchego Khabarovskim krayevym otdelom zdravookhraneniya.

(Soviet Far East--Public Health)

ZAYONCHKOVSKIY, V.A., inzhener; ZHDANOV, I.S., inzhener.

Cableways at the Kuybyshev hydro construction project. Mekh.trud.rab. 7 no.8:33-37 Ag '53. (MLRA 6:8)
(Kuybyshev hydroelectric power station) (Wire-rope transportation)

SELEZNEV, Yu.N.; ZHDANOV, I.V.

The extent of the electrification of rural areas should be correctly evaluated. Elektrichestvo no.6:8 Je '62. (MIRA 15:6)

1. Glavnyy inzhener Kirovsel'energo (for Seleznev).
(Rural electrification)

ZHDANOV, I.V.

TF-1120 gas analyzer. Mash. i neft. obor. no.11 24-25 '63
(MIRA 17:7)

1. Omskiy neftepererabatyvayushchiy zavod.

ZHDANOV, I.V.

DPG5-52 and DPG5A-52 depolarized gas analyzers. Mash.i neft. obor. no.12:20-21 '63. (MIRA 17:4)

1. Omskiy neftepererabatyvayushchiy zavod.

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.; GUREVICH, G.M.; GORBUNOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.; KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETICHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSHVALOV, V.N.; SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.; EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALECHIN, N.I.; DADAGOV, I.A.; YEMMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN, D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY, A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV, V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.; CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.; OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO, I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ya.; SUSLIN, V.A.; BRUS, A.Ye.; VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.; BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.; VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.; KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan', Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon. (Astrakhan Province--Economic conditions)

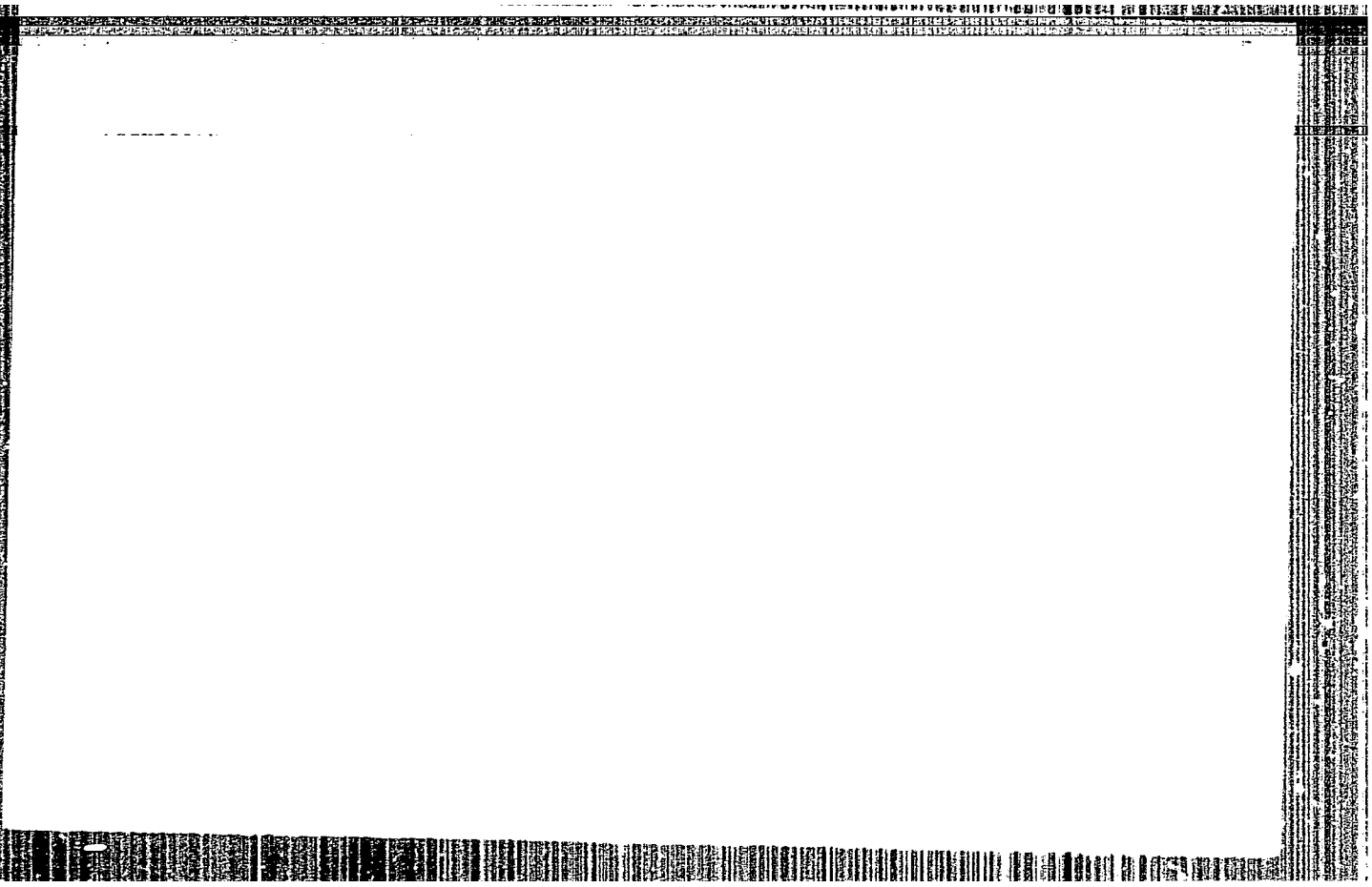
ZHDANOV, I.Ye.

Increase the stock of sound insulation materials; introduce a single method for acoustical measurements in construction practice. Gor.khoz.Mosk.29 no.9:6-7 S '55. (MLRA 8:12)

1. Inspektsiya Gosudarstvennogo arkhitekturno-stroitel'nogo kontrolya g.Moskvy
(Soundproofing)

KARPOV, L.I.; ZHDANOV, I.Ye.; MEZHENIN, A.T.

Apartment house with lower ceilings. Ger. khoz. Mosk. 33 no.3:16-17 Mr '59. (MIRA 12:5)
(Moscow--Apartment houses)



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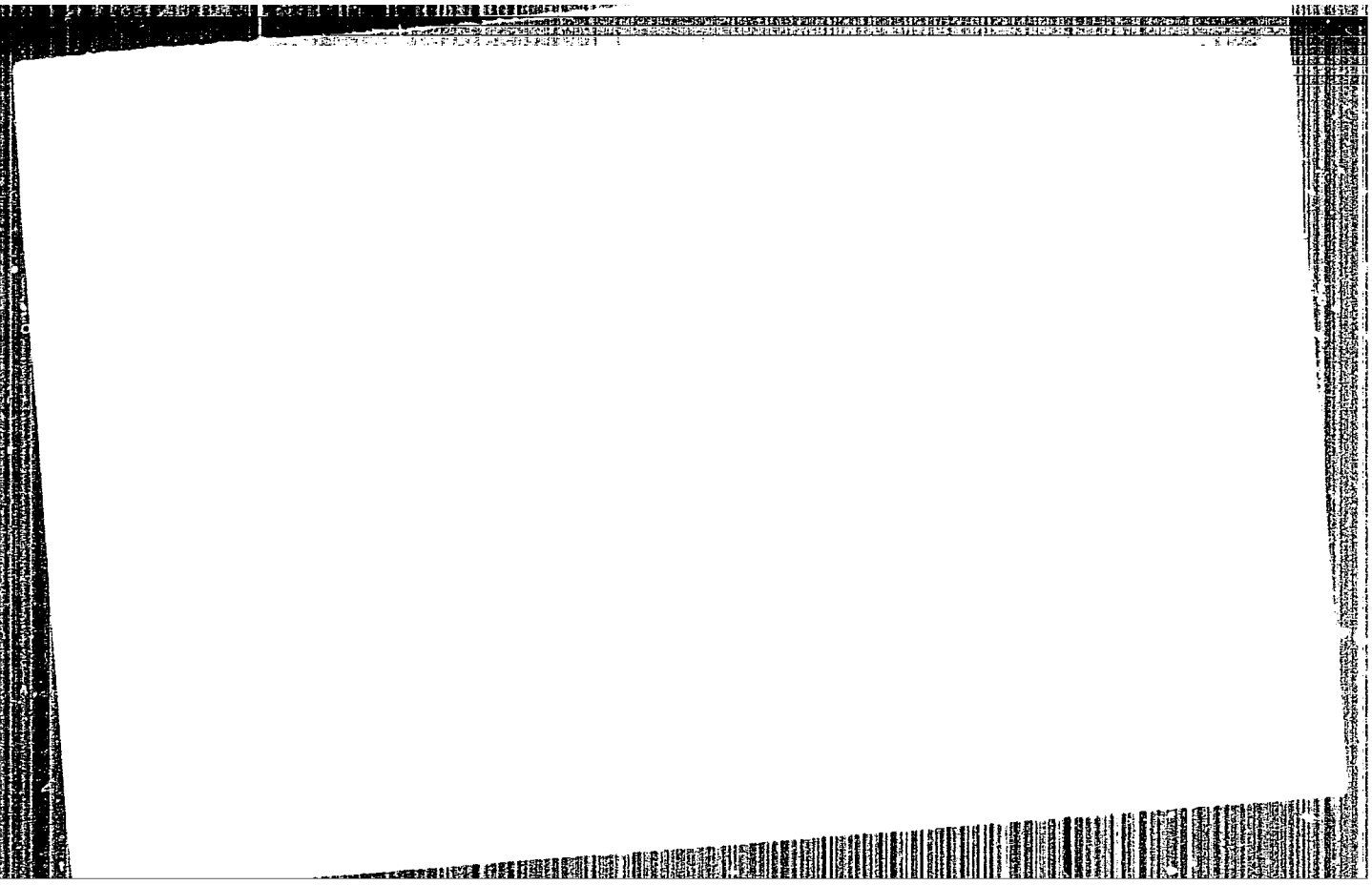

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ACCESSION NR: AT4015880 S/3055/63/000/002/0157/0166

AUTHORS: Vetchinkin, A. N.; Diatroptov, D. B.; Zhdanov, K. A.; Nedelyayev, A. P.

TITLE: Dosimeter for electromagnetic oscillations in the decimeter band

SOURCE: AN SSSR. Fizicheskaya laboratoriya. Elektronika bol'shikh moshchnostey (High-power electronics), no. 2, 1963, 157-166

TOPIC TAGS: dosimeter, microwave equipment radiation, stationary dosimeter, portable dosimeter, alarm dosimeter, flux density measurement, incident energy measurement

ABSTRACT: A special dosimeter is described for use around high-power microwave generators. Unlike standard dosimeters, this requires fewer manual operations and is more automatic. The dosimeter antenna is a 3 cm loop loaded by a crystal detector through a dissi-

Card 1/3

ACCESSION NR: AT4015880

pative attenuator. The dosimeters operate with continuous oscillation only (pulsed operation of the generator may spoil the dosimeter) and come in three types. The loop efficiency is approximately 7%. Three types of dosimeters are described: (1) stationary with mechanical displacement of loop (to eliminate the effect of standing waves in the room), which reads the energy flux density (from 20 to 200,000 microwatt per square centimeter) and which integrates the incident energy (from 0.001 to 10 J/cm^2); (2) pocket type, which integrates the incident energy from 0.01 to 100 J/cm^2 at a flux density from 0.1 to 10 mW/cm^2; (3) portable sound alarm, which produces a signal at a set power flux level from 0.1 to 1 mW/cm^2. The stationary dosimeter uses vacuum tubes, while the pocket and sound-signal dosimeters are transistorized and fed from dry cells. "The authors are grateful to P. L. Kapitsa for support of this work and to V. P. Peshkov for many valuable hints. "Orig. art. has: 6 figures and 3 formulas.

Card 2/3

ACCESSION NR: AT4015880

ASSOCIATION: Fizicheskaya laboratoriya AN SSSR (Physics Laboratory, AN SSSR)

SUBMITTED: 00 DATE ACQ: 25Jan64 ENCL: 00

SUB CODE: GE, SD NR REF SOV: 000 OTHER: 000

Card 3/3

L 08102-67 EWT(m)/EWP(f) FDN/DJ

ACC NR: AP6029989 (A,N) SOURCE CODE: UR/0413/66/000/015/0195/0195

61
B

INVENTOR: Zhdanov, K. I.; Nogtev, L. M.; Alekseyev, I. L.; Korsakov, Ye. P.; Kan'shin, I. P.; Solomko, S. R.

ORG: none

TITLE: Variable-pitch propeller. Class 62, No. 184147

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 195

TOPIC TAGS: aircraft propeller, propeller blade, propeller pitch control, hydraulic device, servomechanism, servosystem

ABSTRACT: An Author Certificate has been issued for a variable-pitch propeller consisting of a hub (with blades mobilely attached) and a cylinder containing a variable-pitch mechanism and a control unit. The propeller is equipped with a hydraulic control unit, connected with the aircraft's hydraulic system, for the automatic control of propeller pitch and the engine's gas while assuring constant rpm and a minimal fuel expenditure. The control unit includes main and emergency regulators with control valves and servomechanisms consisting of servopistons with racks and pinions connected by a flexible coupling, one with the propeller's variable-pitch mechanism and the other with the engine's fuel-supply system. In order to remotely control propeller pitch and simultaneously adjust the propeller pitch for thrust, it can be equipped with a servosystem consisting of a spring-supported control valve and a tracking bushing for changing the propeller's pitch. To assure the

Card 1/2 UDC: 629.13.01/06

L 08102-67

ACC NR: AP6029989

delayed change of the propeller blades to the angle ϕ° in case of the decompression of the large-pitch channel, the propeller contains a throttle system consisting of a spring-supported plunger with a throttle opening. [SA]

SUB CODE:01,09,13/ SUBM DATE: 08Aug62

Card 2/2 nlg

ACC NR: AP6033494 SOURCE CODE: UR/0413/66/000/018/0116/0116

INVENTOR: Zhdanov, K. I.; Dubrovskiy, D. M.; Kazanskiy, B. P.; Kuz'min, A. I.; Kulikov, Ye. I.; Bespechnyy, S. P.; Yevlakhov, L. A.; Meshchaninov, Ye. G.

ORG: none

TITLE: Aircraft-propeller test stand. Class 42, No. 186169

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 116

TOPIC TAGS: aircraft propeller, ~~aircraft~~ propeller blade, propeller test stand, ~~aircraft maintenance~~, aircraft maintenance equipment, test stand

ABSTRACT: An Author Certificate has been issued for an aircraft-propeller test stand consisting of a pedestal and a propeller hub, equipped with dummy blade roots, and a hydraulic pump which supplies working fluid to the stand's components. To simulate propeller loading without rotation, hydraulic pistons, installed in the pedestal's cylindrical housing, operate through the dummy blade roots to simulate centrifugal force and thrust. To simulate the aerodynamic forces produced by the propeller's transverse inflow, it is equipped with movable hydraulic cylinders which consecutively bend the dummy blade roots. Working fluid is supplied to the hydraulic cylinders through a hydraulic pulser containing spring-loaded plungers; these are consecutively displaced by a cam mounted on the hydraulic pulser's shaft by the use of an eccentri-

Card 1/2 UDC: 620.178
629.13.01/06

ACC NR: AP6033494

cally constructed, grooved coupling which assures the alignment of the cam for a certain travel of the spring-loaded plungers.

SUB CODE: 01/ SUBM DATE: 30Nov64/

Card 2/2

L 08126-67 EWT(m) FDN/DJ

ACC NR: AP6029988 (A,N) SOURCE CODE: UR/0413/66/000/015/0195/0195

INVENTOR: Zhdanov, K. I.; Kazanskiy, B. P.; Kukharev, V. I.

38
B

ORG: none

TITLE: Variable-pitch propeller. Class 62, No. 184146

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 195

TOPIC TAGS: aircraft propeller, propeller blade, propeller pitch control, hydraulic device

ABSTRACT: An Author Certificate has been issued for a variable-pitch propeller consisting of a hub, blades, a hydraulic mechanism with a piston for changing the pitch, and a constant-rpm governor. To prevent the appearance of negative thrust in flight in the event of the simultaneous action of several defects in the power-plant system, the piston is equipped with a hydraulic sliding support consisting of a spring-supported slide valve. The valve has a regulated pressure chamber connected by a system of channels with a pressure regulator having power, altitude, flight-speed, and ambient-air-temperature transducers. [KT]

SUB CODE:01, 13/ SUBM DATE: 30Dec64

Card 1/1 nst UDC: 629.13.01/06

L 08952-67 EWT(d)/EWT(m)/EWP(w)/EWP(f) IJP(c) WW/EM
ACC NR: AP6029980 SOURCE CODE: UR/0413/66/000/015/0192/0193

INVENTOR: Zhdanov, K. I.; Zerkalenkov, A. I.

ORG: none

TITLE: Stand for the aerodynamic balancing of aircraft propeller blades. Class 42, No. 183984

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 192-193

TOPIC TAGS: propeller blade, aircraft propeller, aircraft maintenance, test stand

ABSTRACT: An Author Certificate has been issued for a stand for the aerodynamic balancing of aircraft propeller blades, which contains a layout block mounted on

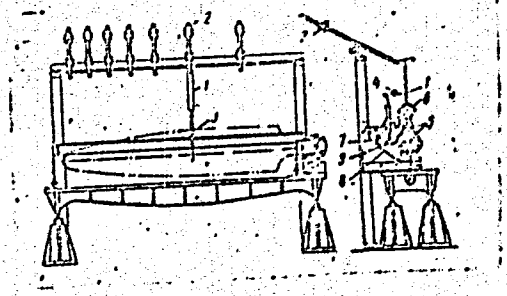


Fig. 1. Aircraft propeller-blade balancing stand

1 - Lock; 2 - lever with counterweight; 3 - rotatable support; 4 - indicator; 5 - levers with holders; 6 - stirrups; 7 - flat holder; 8 - support-gib levers; 9 - lever lock.

UDC: 620,178.629.13.01/06

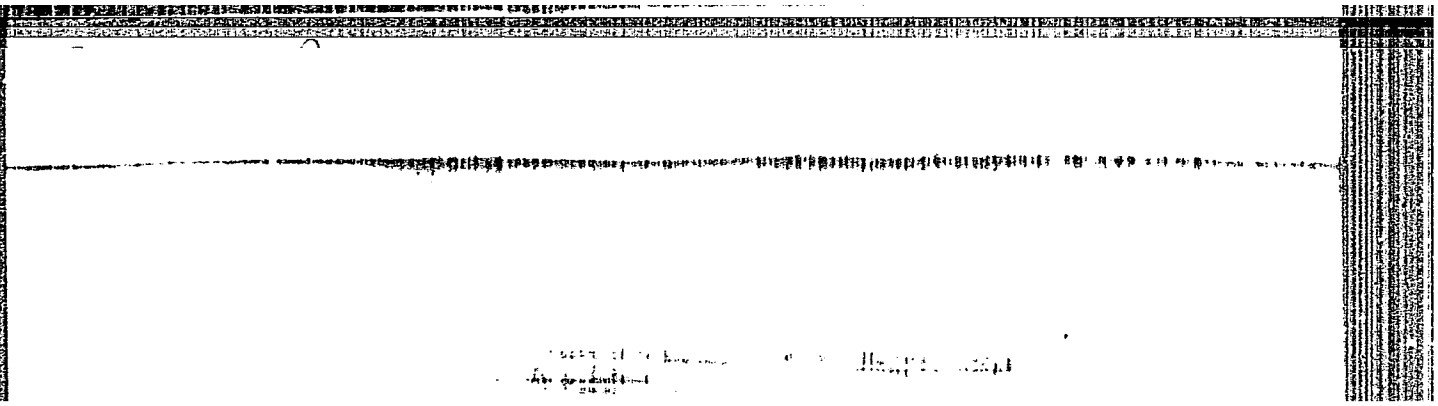
Card 1/2

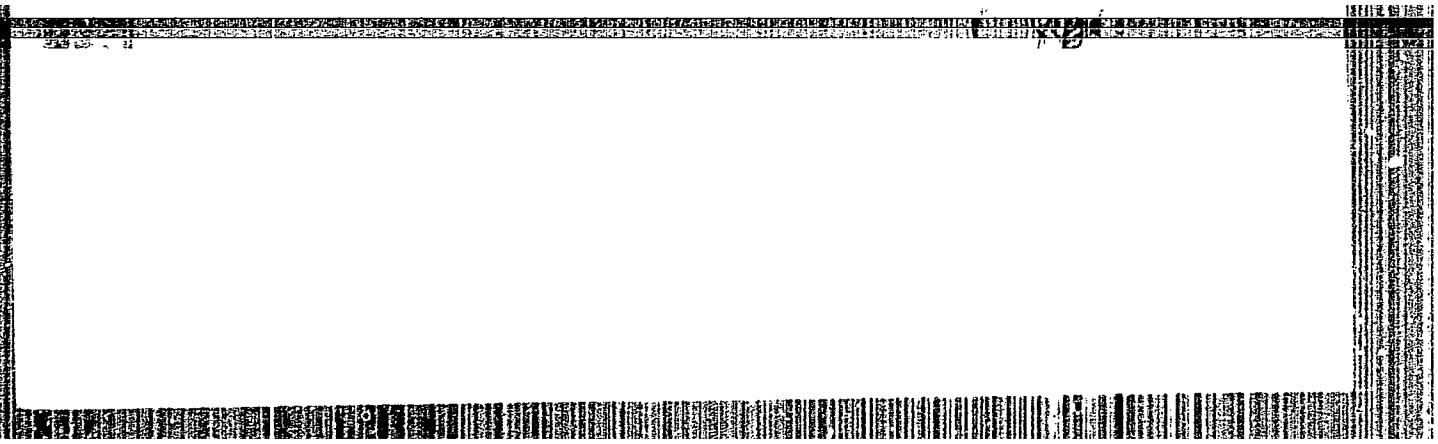
L 08952-67
ACC NR: AP6029980

hoists, a head with a gripping device, pedestals with crossbars attached to the block, and counterweighted levers attached to the upper crossbar. To improve quality and efficiency, the stand is equipped with a mechanism consisting of blade-angle locks attached to the other end of the counterweighted levers, rotatable supports attached to the lower crossbar, and indicators, one end of which interacts with the locks. Orig. art. has: 1 figure. [KT]

SUB CODE: 01/ SUBM DATE: 10Dec63/

Card 2/2 mat





APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064620009-2"

USSR/Miscellaneous-Metallurgy

Card 1/1

Author : Zhadnov, K. P.

Title : Annealing of malleable cast iron controlled by the magnetic properties

Periodical : Lit. Proizv. 1, 29 - 30, Jan-Feb 1954

Abstract : The substitution of the hardness control of malleable cast iron molds with a more industrious method of controlling its magnetic properties is discussed. The instruments (coercive force meters) developed for that purpose are presently used in foundries. Their working principle is as follows: the casting is magnetized by a magnetic field of an attached electro-magnet, then demagnetized by a reverse order field then the coercive force is measured. The entire control process requires about 7 seconds and is determined mainly by the stable period of the galvanometer dial. The instrument indications coincide with the hardness measures of a Brinell press.

Institution: ....

Submitted : ....

ZHDANOV, K.V.

Better use of laboratory equipment and instruments. Izm.tekh. no.1:93-94 Ja-F '56. (MLRA 9:5)
(Measuring instruments) (Laboratories--Apparatus and supplies)

ZHDANOV, L., solist baleta Bol'shogo teatra Soyuza SSR.

I take pictures of life only. Sov. foto 17 no.4:30-32 Ap '57. (MIRA 10:6)
(Photography)

GRESHKIN, P.; ZHDANOV, L.

Mystery of the Matua-Kite-Rongi island (conclusion). Tekh.mol. 25 no.12:11-15 D '57. (MIRA 11:1)
(Easter Island--Description and travel)

ZHDANOV, L.

BLOMBERG, Rol'f; ZHDANOV, L.[translaror]

Inhabitants of the jungle. Znan. sila 33 no.2:10-12 F '58.
(Animals, Habits and behavior of) (MIRA 11:4)

BLOMBERG, Rol'f [Blomberg, Rolf], ZHDANOV, L., [translator]

The world's most valuable bird. Znan. sila 33 no. 5:26-28 My '58.
(MIRA 11:8)

(Chincha Islands--Water birds)
(Don Martin Island--Water birds)
(Guano)

BALSTAD, Liv; ZHDANOV, L. [translator]; MAMAYEVA, O., red.; KORNEYEVA, V., tekhn.red.

[North of the desert sea] K Severu ot morskoi pustyni. Moskva, Izd-vo TsK VLKSM "Molodaia gvardiia," 1958. 333 p. Translated from the Norwegian. (MIRA 13:4)
(Spitsbergen--Description and travel)

ZHDANOV, L.A., mladshiy nauchnyy sotrudnik

Meridional aerological section between the tropics of the Southern and Northern Hemispheres. Inform. biul. Sov. antark. eksp. no.22: 32-35 '60. (MIRA 14:5)

1. Chetvertaya kontinental'naya ekspeditsiya.
(Tropics—Meterology)

3(3) PHASE I BOOK EXPLOITATION SOV/3223

Akademiya nauk SSSR. Kompleksnaya antarkticheskaya ekspeditsiya

Klimat Antarktiki (Climate of the Antarctic) Moscow, Geografgiz, 1959. 285 p. (Series: Its: Trudy; Meteorologiya i klimatologiya) Errata slip inserted. 4,000 copies printed.

Ed.: S. N. Kumkes; Tech. Ed.: S. M. Kosheleva; Editorial Board: V. F. Burkhanov, B. L. Dzerdzeyevskiy, Kh. P. Pogosyan, and G. M. Tauber.

PURPOSE: This book is intended for meteorologists and climatologists. It will be of interest to all earth scientists concerned with the Antarctic region.

COVERAGE: This book contains 18 articles on the weather and climate of Antarctica. Articles represent the generalized results of processing data obtained by the Soviets during their expeditions to the Antarctic, 1955-1958. Individual authors have attempted to clarify and unify previously divergent views on Antarctic meteorological processes (zonal circulation, temperature distributions, cyclonic and anticyclonic movement, etc.). No personalities are mentioned. References accompany individual articles.

TABLE OF CONTENTS:

1/4

ENGLAND, I., meteorolog-sinoptik; ZHDANOV, L.A., mladshiy nauchnyy sotrudnik

Some results of aerological sounding in tropical zones from the motorship "Kooperatsiia." Inform. biul. Sov. antark. eksp. no.38: 16-19 '63. (MIRA 16:7)

(Atlantic Ocean—Meteorology—Observations)

ZHDANOV, L.A., akademik

Ways of the use of foreign additional pollination in sunflower breeding. Agrobiologia no.4:483-489 Jl-Ag '63. (MIRA 16:9)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.
(Sunflower breeding)

ZHDANOV, L.A.

Wind in free atmosphere and drainage wind at Mirnyy Station.
Meteor. i gidrol. no.3:30-35 Mr '63. (MIRA 16:3)

1. TSentral'nyy institut prognozov.
(Mirnyy Station, Antarctica--Winds)

ZHDANOV, L.A., mladshiy nauchnyy sotrudnik

Establishing types of syhoptic processes over the coastal area of eastern Antarctica. Inform. biul. Sov. antark. eksp. no.24:26-29 '60. (MIRA 14:5)

1. TSentral'nyy institut prognozov.
(Antarctic regions-Weather forecasting)

ZHDANOV, Leonid

On the Black Sea. Sov.foto 19 no.7:70-71 Jl '59. (MIRA 12:11)

1. Solist baleta Bol'shogo teatra SSSR.
(Photography)

67172

~~3(7)~~ 3.5000

AUTHOR: Zhdanov, L. A. SOV/50-60-1-3/20

TITLE: Trajectories of Cyclones and Anticyclones in the Southern Hemisphere

PERIODICAL: Meteorologiya i gidrologiya, 1960, Nr 1, pp 10-17 (USSR)

ABSTRACT: General rules are given here concerning the cyclones and anticyclones in the southern hemisphere during the summer 1955/56 and the winter 1956. For this purpose, information of the southern hemisphere stations on world maps (compiled since 1953 in the Tsentral'nyy institut prognozov (Central Institute of Forecasts)) was analyzed. The synoptic maps of the 1st Soviet Antarctic Expedition, the daily bulletins of the weather bureaus of some countries of the southern hemisphere, and the consultations of the radiometeorological centers in Canberra, Darwin, Pretoria, Tananarivo, and Wellington were made use of. Here, the southern hemisphere was divided into three sectors: Atlantic, Indian, and Pacific. On the basis of a joint investigation of the cyclone displacements in winter and summer (Figs 1 and 2) the following is stated: (1) The trajectory bundle of cyclones which is very clearly observable in summer does not appear as marked in winter, as long as a more strongly marked

Card 1/3

Trajectories of Cyclones and Anticyclones in the Southern Hemisphere

meridional circulation occurs during this period. (2) In the Indian sector, the cyclones pass by more to the south in summer than in winter. The axis of the trajectory bundle shifts from north to south as from December to January-February. (3) In the Pacific sector, the winter cyclone trajectories diverge in two directions from the area 60°S and 150°E: the ones to the Ross Sea, the others to the central area of the Southern Pacific. In winter, these trajectories exhibit a larger meridional component than in summer. (4) It may be observed from the two schemes (summer and winter) that the dense trajectory bundles of the cyclones reach the South Pole area in the following places: in the region of the Weddell Sea, west and east of Enderby Island, west and east of the Davis Sea, Adélie Land, Ross Sea and north of the Bellingshausen Sea. The comparison between anticyclone data in winter and summer yields the following results: (1) In winter, the trajectory bundle of subtropical zone anticyclones shifts to the north (as compared to summer, by an average of 5°). (2) In winter, subtropical zone anticyclones shift faster than in summer. (3) Polar outbreaks occur in the course of the year from various regions of the South Pole area.

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Trajectories of Cyclones and Antioyclones in the Southern Hemisphere

67172

SOV/50-60-1-3/20

Those from Coats Land and Queen Maud Land, Wilkes Land and Victoria Land, Mary Byrd Land, are especially marked. A comparison between figures 1 and 2 shows that a strongly marked meridional circulation is observed in the southern hemisphere in winter. The same cannot be said when comparing the schemes for July and January in the "Morskoy Atlas" (Sea Atlas)(Ref 4) with respect to the northern hemisphere. This confirms the opinion held by Krichak (Ref 2) that a more considerable air exchange as had been formerly assumed occurs in the southern hemisphere between the lower and the higher latitudes. Mention is made of papers by L. A. Zhdanov (Ref 1), N. G. Leonov (Ref 3), Kh. P. Pogosyan (Ref 5), G. M. Tauber (Refs 6, 7), S. P. Khromov (Ref 8). There are 2 figures, 3 tables, and 10 references, 8 of which are Soviet.

4

Card 3/3

ZHDANOV, L.A., akademik; IVANOVA, N.L., redaktor; GLOTOVA, M.I., tekhnicheskiy redaktor

[Increasing the yield of oilseed plants] O povyshenii urozhainosti maslichnykh kul'tur; doklad na oblastnom agronomicheskom soveshchanii v fevrale 1952 goda. Rostov-na-Donu, Rostovskoe obl. kn-vo, 1952. 15 p.

(Oilseed plants) (MLRA 10:1)

USSR/Cultivated Plants. Technical Oleaceae, Sugar Plants M-7

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1661

Author : L.A. Zhdanov
Inst : All-Union Academy of Agricultural Sciences imeni Lenin
Title : A Summary of Results of Studies on Raising New Sunflower Varieties

Orig Pub : V sb.: Krotkiy otchet o nauchn.-issled. rabote Vses. n.-i. in-ta maslich. i efiromaslich. kul'tur VASKhNIL za 1955g., Krasnodar, 1956, 17-25

Abstract : Results of the sunflower variety testing conducted at the variety testing station during the year 1955. The oil content of the 8281 and Stepnyak varieties developed earlier was considerably increased. By means of the method of directed inter-variety pollination new disease-resistant varieties have been obtained. Through the method of crossing cultivated forms of the sunflower with the wild species Helianthus ruderalis Wenzl, hybrids resistant to mildew and broom rape have been obtained. From the hybrids, a series of numbers of the cultivated type have been extracted; the task of increasing their yield and

Card : 1/2

Card : 2/2

M

Country : USSR
Category: Cultivated Plants. Commercial. Oil-Bearing. Sugar-Bearing.

Abs Jour: RZhBiol., No 11, 1958, No 49051

Author : Zhdanov, L.A.
Inst : All-Union Sci. Res. Acad. of Agric. Sciences im. V.I. Lenin
Title : Breeding of India Mustard (Brassica juncea).

Orig Pub: V. sb.: Kratkiy otchet, o nauchn.-issled. rabote Vses. n.-i. in-ta maslich. i efiromaslich. kul'tur VASKHNIL za 1955 g. Krasnodar, 1956, 46-53

Abstract: A number of India mustard strains and their hybrids are described which were developed by the Don Experimental Breeding Station and are superior to the standard varieties in productivity and oil pro-

Card : 1/2

ZHDANOV, L.A., ALEKSEYEV, A.P., kandidat biologicheskikh nauk.

Vegetative, hybridization of the sunflower. Agrobiologiia no.5: 45-54 S-O '56. (MLRA 9:11)

1. Akademik Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk imeni Lenina (for Zhdanov).
2. Donskaya zonal'naya opytno-selektsionnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta maslichnykh i efiromaslichnykh kul'tur, Rostov-na-Donu.
(Sunflowers) (Hybridization, Vegetable)

ZHDANOV, L.A., akademik.

Mentor influence in fertilizing sunflowers with pollen of other plants. Dokl. Akad. sel'khoz. 23 no.7:14-21 '58. (MIRA 11:8)

1. Donskaya zonal'naya opytno-selektsionnaya stantsiya.
(Sunflower breeding) (Fertilization of plants)

ZHDANOV, L.A., akademik

General biological theories and the breeding of oilseed plants.
Agrobiologiia no.5:767 S-O '59. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina.
(Biology) (Oilseed plant breeding)

ZSDANOV, L.A. [Zhdanov, L.A.]

Improving the sunflower in the Don region. Elet tud 15 no.35: 1108-1110 28 Ag '60.

1. Szovjetunio Lenin Mezogazdasagi Akademiajanak tagja.

ACC NR: AT6036326 (N) SOURCE CODE: UR/3109/66/000/011/0043/0125

AUTHOR: Zhdanov, L. A.

ORG: none

TITLE: Atmospheric circulation over the Antarctic

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Meteorologicheskiye issledovaniya, no. 11, 1966, 43-125

TOPIC TAGS: atmospheric circulation, Antarctic climate, cyclone, anticyclone

ABSTRACT: On the basis of the study of atmospheric circulation in 1962, and of comparisons made with other years, the following conclusions have been reached concerning the weather conditions and cyclone and anticyclone trajectories in the Atlantic and in the Southern hemisphere. Approximately 45 pages of maps of the mean monthly pressures, the tropopause and the cyclonic and anticyclonic trajectories for 1962 are presented, and the velocities of the movement of the cyclones and anticyclones is shown. A brief aerometeorological characteristic of the Mirnyy area is also presented. Areas of formation of Antarctic cyclones are

Card 1/2 UDC: 551.501(082)

ACC NR: AT6036326

indicated, and migration of the trajectories in the main ring of sub-tropical anticyclones is studied. Distribution of the annual temperature variations for the eastern part of the Eastern Antarctic, and on the coast of the eastern part of the Weddell Sea, is shown on the basis of biannual cycles revealed in the free atmosphere during years with zonal and meridional circulations. An Appendix to the article comprises 89 maps of various types, and 16 more maps appear in the body of the article. Orig. art. has: 103 figures, and 8 tables. [Based on author's abstract] [GC]

SUB CODE: 04, 08/SUBM DATE: none/ORIG REF: 043/OTH REF: 011/

Card 2/2

TKACHEV, V.V., inzh.; SHOLENINOV, V.M., inzh.; Prinimali uchastiye: KONSTANTINOV, V.G.; LEVIN, L.Ya.; GRIGOR'YEVYKH, G.F.; ZAKHAROV, V.N.; ZHDANOV, L.A.; PUZANOV, N.A.; SUKHANOV, V.I.; VASIL'YEV, A.N.; ZHELEZNAYA, P.T.; TUGARINOVA, Ye.A.; LEVKIN, A.S.; MOKIYEVSKIY, N.M.; SHAKHALOV, V.; SMIRNOV, A.I.

Developing the technology of producing a high-basicity open-hearth sinter. Stal' 25 no.8:683-686 Ag '65.

(MIRA 18:8)

1. Cherepovetskiy metallurgicheskiy zavod (for Tkachev, Sholeminov).

ZHDANOV, L.A., mladshiy nauchnyy sotrudnik; PETROV, A.B., mladshiy nauchnyy sotrudnik

Results of probing the atmosphere with A-22 radiosondes in Antarctica. Inform. biul. Sov. antark. eksp. no.45:33-38 '64.

(MIRA 18:1)

DOLGANOV, L.V., kand.geograf.nauk; ZHDANOV, L.A., mladshiy nauchnyy sotrudnik

New methods for using aeronautics in meteorological investigations in the Antarctic regions. Inform.biul.Sov.antark.eksp. no.44: 32-34 '63. (MIRA 17:4)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut i Sed'maya kontinental'naya Antarkticheskaya ekspeditsiya.

ALEKSEYEV, A.P., kand. biol. nauk; LUKASHEV, A.I., kand. sel'-khoz. nauk; BELEVTSEV, D.N., kand. sel'khoz. nauk; KALININ, N.I., st. nauchn. sotr.; ZHDANOV, L.A., akademik, red.; ALEKSEYEVA, R.I., red.

[Sunflowers in the Don Valley] Podsolnechnik na Donu. [By] A.P.Alekseev i dr. Rostov na Donu, Rostovskoe knizhnoe izd-vo, 1964. 110 p. (MIRA 17:6)

DOLGANOV, L.V.; ZHDANOV, L.A.

Work practice of the aerometeorological detachment of the Seventh Continental Antarctic Expedition. Meteor. i gidrol. no.12:31-32 D '63. (MIRA 17:3)

ZHDANOV, L.A., mladshiy nauchnyy sotrudnik

Relationship between the atmospheric circulation in the Northern Hemisphere and the Southern Hemisphere. Inform.biul. Sov.antark.eksp. no.43:21-23 '63. (MIRA 17:1)

1. Sed'maya kontinental'naya ekspeditsiya.

PAVLOV, S.M., inzh.; FREYGOFER, Ye.F., inzh.; SAYAPIN, Yu.I., inzh.; ZHDANOV, L.G., inzh.; BARYNINA, Ye.Yu., kand.tekhn.nauk

Fully mechanized aggregate yards for year-round large concrete plants. Prom.stroi. 37 no.8:26-34 Ag '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Pavlov). 2. Gidroproyekt (for Sayapin, Freygofer, Zhdanov). 3. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti (for Barynina).
(Concrete plants—Equipment and supplies)

USSR/General Problems of Pathology - Experimental Therapy.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75479

Author : Zhdanov, L.G.
Inst :
Title : Quantitative Correlations Between Toxicity and Antineoplastic Action of Five Preparations of the Group of Alkylating Agents.

Orig Pub : Vopr. onkologii, 1957, 3, No 6, 678-683

Abstract : The toxicity and antineoplastic activity of methyl-di(β-chloroethyl)-amine (I; embichine), methyl-β-chloroethyl-β-chloropropylamine (II; embichine 11) 4-methyl-5-di-(β-chloroethyl)-aminouracil (III; dopane), dl-n-di-(β-chloroethyl)-aminophenylalanine (IV; sarcolysin), 2,4,6-triethyleneimino-S-triazine (V; TEM) were studies. Therapeutic index of these compounds, which represented the relationship of DL_{50}/DPO_{50} was determined, where DL_{50} - dosage causing death of 50% of animals, DPO_{50} - dosage inhibiting

Card 1/2

ZHDANOV, L.I.

Vibration sifter for granulated sugar. Khleb. i kond. prom. 1 no.12: 36-37 D '57. (MIRA 11:1)

1. Khlebokombinat No.1 Kirovskogo tresta khlebopecheniya.
(Sieves) (Sugar)

ZHDANOVA, L.P.

Comparative analysis of photoperiodic induction in short- and long-day plants. Trudy Inst. fiziol.rast. 6 no.1:69-84 '48. (MLRA 9:9)
(Plants, Effect of light on)

ZHDANOV, L. F.

"The Significance in Plants of the Gas Regimen during their Passage Through the Light Stage," Dok. AN., 70, No. 4, 1950.

ZHDANOV, Leonid Sergeyevich; KHLEBNIKOV, Nikolay Ivanovich; SUVOROV, N.P. redaktor; RYDNIK, V.I., redaktor; TUMARKINA, N.A., tekhnicheskiy redaktor

[A course in physics for technical schools] Kurs fiziki dlia tekhnikumov. Pod red. N.P. Suvorova. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry. Pt.1. [Mechanics and molecular physics] Mekhanika i molekuliarnaia fizika. 1956. 391 p. (MIRA 10:5)
(Mechanics) (Molecular dynamics)

N/5
613
.26

Zhdanov, Leonid Sergeyevich

Kurs fiziki dlya tekhnikumov[Physics course for technical schools, by] L. S. Zhdanov i Nikolay Ivanovich Khlebnikov. Moskva, Gos. Izd-vo Fiziko-Matematicheskoy Lit-ry, 1958-

v. illus., diagrs., graphs, tables.

Lib. has: vol. 1
vol. 2

ZHDANOV, Leonid Sergeyevich; KHLEBNIKOV, Nikolay Ivanovich; SUVOROV, N.P., red.; KUZNETSOVA, Ye.B., red.; PLAKSHE, L.Yu., tekhn. red.

[Course in physics for technical schools] Kurs fizki dlia tekhnikumov. Pod red. N.P.Suvorova. Izd.2. Pt. [Mechanics and molecular physics] Mekhanika i molekuliarnaia fizika. 1961. 391 p. (MIRA 14:6)

(Physics)

ZHDANOV, Leonid Sergeyevich; KHLEBNIKOV, Nikolay Ivanovich; SUVOROV, N.P., red.; RYDNIK, V.I., red.; AKHLAMOV, S.N., tekhn.red.

[A course in physics for engineering schools] Kurs fiziki dlia tekhnikumov. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. Pt.2. [Electricity, optics, physics of the atom and the atomic nucleus] Elektrichestvo, optika, fizika atoma i atomnogo iadra. Pod red. N.P.Suvorova. 488 p. (MIRA 11:2)
(Physics)

ZHDANOV, L.V.

Cylinder-to-digital converter using the reflex coding system with a base greater than two. Izv.vys.ucheb.zav.; prib. 5 no.3:67-76 '62. (MIRA 15:8)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy schetno-reshayushchikh priborov.
(Electronic analog computers)

25(1), 28(1) SOV/146-59-2-13/23

AUTHOR: Zhdanov, L.V., Engineer

TITLE: Analysis of Errors Appearing When Multiplying on "Ural" Machines

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - priborostroyeniye, 1959, Nr 2, pp 76-82 (USSR)

ABSTRACT: Performing multiplication on the automatic computing machine "Ural", it happens sometimes that the results obtained are systematically wrong. It is to be explained by the fact that the machine has a continuous working cycle determined by the impulses sent out from the magnetic drum. In some cases, the process of multiplication ends later than the signal of round-off, that is, the end of operation, is received. In the control system of "Ural" machines, two multiplication operations are provided. The first operation $U_m - 1$ is intended for computing expressions of the kind a.b + c = d, where a - is a number in the arithmetical register device AU; b - is a number in the operating sum storage NMB; c - is a number in the

Card 1/3

Analysis of Errors Appearing When Multiplying on "Ural" Machines

adder AU; d - is the operation result remaining in the adder. The second multiplication operation U_{m} - 2 performs computing of expressions of the kind $a.b =$ d. Operation of the machine consists, on the whole, of the following stages: The magnetic drum is provided with three ring digit paths with magnetic markings. When reading the markings by magnetic heads, three series of impulses are obtained. The first of these series, S-2048, contains 2048 impulses distributed in four groups with 512 impulses in each. These impulses are used for marking of accumulator storage location. The second series S-53 contains 53 impulses following each other with intervals of 190 mcsec. This series serves as a base for working out the impulse series S-120 of 120 mcsec, S-100 of 100 mcsec and S-50 of 50 mcsec duration. From the impulses of series S-120, the basic working impulses I-1, I-2, I-3, I-4 and I-5 are formed. The third series S-4 consists of four impulses; it is used when working with outside accumulators. A diagram

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showing the placement of series and working impulses is given in Fig 1a. The position during the process of multiplication depends on the accumulator storage location which keeps the multiplier. To eliminate the errors that arise when using the "Ural" machine, a correction device has been constructed (Fig 3). The value of error that may occur when applying the correction device is $\Delta = k.2^{-35}$, where k - is the value formed by six high-order digits of the multiplier. Recommended by the Kafedra schetno-reshaynshikh priborov (Chair of Computing-Solving Devices). There are 3 diagrams and 1 Soviet reference.

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