

L 14075-66 EWT(l)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AP6003241

SOURCE CODE: UR/0020/65/165/006/1273/1274

AUTHOR: Kamnev, A. B.; Leonas, V. H.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy uni-
versitet)

TITLE: Potentials of repulsive interaction between atoms of the inert gases

SOURCE: AN SSSR. Doklady, v. 165, no. 6, 1965, 1273-1274

TOPIC TAGS: inert gas, particle interaction, scattering cross section, atomic physics

ABSTRACT: The authors use data on the scattering of fast beams of neutral atoms for determining the constants K and s in the formula $V(\gamma) = K/\gamma^s$ for repulsive interaction between heavy inert gases (Kr, Xe) as well as for combinations of these gases with the lighter members of the series. Formulas are given for determining the potentials of interaction for mixed gases. Comparison shows satisfactory agreement between experimental and theoretical data for all systems of gases. The energies of interaction coincide with an accuracy of 15-20% for all systems except

Card 1/2

UDC: 539.186.3

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ACC NR: AP6003241

Ne-Kr and Ar-Kr where coincidence is somewhat poorer. This is apparently due to the fact that an increase in the curvature of the potential s reduces accuracy in determining the value of the other parameter K since the latter is proportional to the experimentally determined value of the effective scattering cross section. A comparison of the potential curves for the Xe-Xe and Kr-Kr systems with experimental data shows a noticeable divergence for the first case and satisfactory agreement for the second. The authors are grateful to Professor O. B. Firsov for discussing the results. Orig. art. has: 1 table, 2 formulas.

SUB CODE: 20/ SUBM DATE: 26Apr65/ ORIG REF: 001/ OTH REF: 004

PC
Card 2/2

I 25998-66 EWT(1) IJP(c)

ACC NR: AP6013523

SOURCE CODE: UR/0120/66/000/002/0182/0186

AUTHOR: Kamnev, A. B.; Leonas, V. B.; Popov, V. G.

ORG: Physics Department, MGU (Fizicheskiy fakul'tet MGU)

TITLE: A device for producing fast beams of atoms and molecules

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 182-186

TOPIC TAGS: molecular beam, particle beam, magnetic analyzer, ion source, charge exchange, elastic scattering, particle interaction

ABSTRACT: A device is described for analyzing interatomic forces in the interaction energy range of approximately one electron-volt by measuring scattering of high-energy (10^2 - 10^3 eV) neutral beams through small angles. A block diagram of the experimental set is shown in the figure. Positive ions from source 1 are accelerated and directed into the magnetic analyzer chamber. An ion beam of fixed mass and energy is filtered out by magnetic analyzer 2 and sent to charge-exchange chamber 3. The beam is collimated and ions are eliminated by deflecting condenser 4. The neutral beam then passes into scattering chamber 5 and the change in intensity due to passage through the target is registered by detector 6. The proposed installation is based on elastic scattering of fast beams of neutral particles in a gas for determining the potentials of interatomic and intermolecular interaction. The individual components of the in-

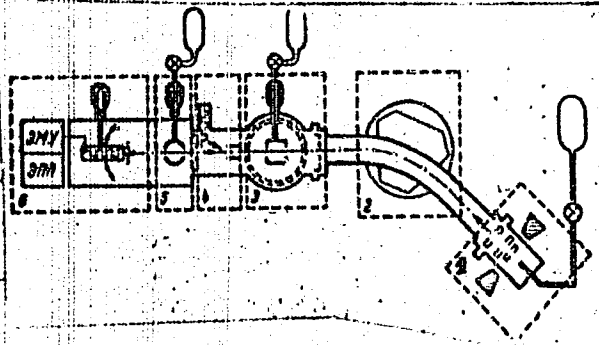
64
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UDC: 539.188.539.198

Card 1/2

L 25998-66

ACC NR: AP6013528



stallation are each discussed in detail. The device was used for studying elastic and inelastic scattering of neutral beams at interaction energies ranging from 0.1 to 100 ev. The proposed installation may also be used for studying scattering of metal and chemically unstable atoms. The authors are sincerely grateful to A. I. Shal'nikov for his interest in the work and useful advice and to L. P. Khavkin for consultation. Orig. art. has: 4 figures and 1 formula. [14]

SUB CODE: 20/ SUBM DATE: 02Mar65/ ORIG REF: 004/ OTH REF: 005
 ATD PRESS: 4255

Card 212

KAMNEV, A.F.

Using auxiliary tables in checking the 26-I instrument. Izv.
tekhn. no. 3:57-59 Mr '61. (MIRA 14:2)
(Frequency measurement)

KAMNEV, B

USSR/Chemical Technology. Chemical Products and Their Application -- Food Industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6645

Author: Kamnev, B.

Institution: None

Title: How the Quality of Cheese was Improved at the Danilovskiy Plant

Original

Publication: Moloch. prom-st', 1956, No 3, 22-23

Abstract: To improve the quality of cheese the following measures were put into effect: cooling of the milk to $+10^{\circ}$ at the milk procurement installations, utilization of ripe milk, changes in the system of milk flow through the apparatus, reduction in time of whey removal from the cells, provision of additional salting reservoirs, changes in the system of brine cooling, preliminary cooling of the cheese for 16-18 hours, decrease in temperature fluctuations within the cooling chamber of the cheese cellar. As a result during 1955 there were produced 80% of high grade Kostromskiy cheese as compared with 46% produced in 1954.

Card 1/1

KAMNEY, G. F.

124-57-1-716

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 92 (USSR)

AUTHOR: Kamnev, G. F.

TITLE: Investigation of the Working Process in Condensers by Means of Hydraulic Simulation of the Tube Nests (Issledovaniye rabochego protsessa v kondensatorakh metodom gidravlicheskogo modelirovaniya trubnykh puchkov)

PERIODICAL: Tr. Vses. nauch. inzh.-tekhn. o-va sudostroyeniya, 1955, Vol 6, Nr 3, pp 50-65

ABSTRACT: A report on the results of an experimental study of the motion of the steam-air mixture in the inter-tube space of a condenser. The investigation was performed by means of the method of a gas-hydrodynamics analogy, i. e., by replacing the plane flow of a gas with the flow of a liquid in an open channel (on the strength of the kinematic equivalence of the two flows when the corresponding relationships among their parameters are fulfilled). In the flow of the steam-air mixture in a condenser the quantity of steam decreases along the flow owing to its condensation. This phenomenon, which can be simulated by means of a discharge of the liquid into pipes (through suitably made

Card 1/2

124-57-1-716

Investigation of the Working Process in (cont.)

drain holes) has an exceedingly important significance for the model test, since the analogs of the basic parameters of the gas flow are expressed in terms of the free liquid surface level. Thus the problem is severely complicated, and the conditions to be simulated can be given only approximately on the basis of some preliminary calculation, the results of which are adduced in terms of the test data by means of successive approximation. The author remarks that satisfactory agreement is obtained after a second or third approximation.

A. A. Gukhman

1. Steam condensers--Performance--Analysis test results
2. Gas flow--Simulation--Model

Card 2/2

KAMNEV, G. F.

USSR/Processes and Equipment for Chemical Industries -
Control and Measuring Devices. Automatic Regulation.

K-2

Abs Jour : Ref Zhur - Khimiya, No 2, 1957, 6976

Author : Kamnev, G.F., Nadporozhskiy, I.I.

Inst :
Title : Automatic Water-Flow Level Gauge

Orig Pub : Sudostroyeniye, 1956, ²²/₉ No 6, 31-33

Abstract : The automatic level gauge that measures the elevation of a stream of water in hydraulic model test installations is based upon the principle of maintaining continuous contact between the point of measuring needle and the surface of the water. The electric part of the apparatus includes an electronic amplifier and a phase-sensitive thyatron rectifier which actuates a reversible motor. Operation of each unit of the hookup is considered and design data of the apparatus are given.

Card 1/1

KAMNEV, G.P.

KAMNEV, G.P., kand. tekhn. nauk.

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Installation for hydraulic modeling of turbine stage performance.
Sudostroenie 23 no.11:49-51 N '57. (MIRA 11:1)
(Hydraulic turbines)

MARKOV, Nikolay Mikhaylovich,; KAMNEV, G.F., kand. tekhn. nauk, retsenzent,;
SERDYUKOV, S.A., inzh., red.; GOFMAN, Ye.K., red. izd-va,; SOKOLOVA,
L.V., tekhn. red.

[Studying the blading of turbines] Issledovaniia protochnoi
chasti turbin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1958. 126 p. (MIRA 11:12)

(Turbines)

PHASE I BOOK EXPLOITATION

SOV/5847

Matveyev, Gavriil Alekseyevich, Georgiy Fedorovich Kamnev, Nikolay Mikhaylovich
Markov, Vadim Sergeyeovich Yelizarov

Aerodinamika protochnoy chasti sudovykh turbin (Aerodynamics of the Gas-Flow
Section of Ship Turbines) Leningrad, Sudprcmgiz, 1961. 362 p. 2750 copies
printed.

Reviewers: A. A. Moiseyev, Professor, Doctor of Technical Sciences, Honored
Scientist and Technologist of the RSFSR, A. N. Patrashev, Professor,
Doctor of Technical Sciences; Scientific Ed.: S. A. Serdyukov;
Ed.: Z. V. Vlasova; Tech. Ed.: L. M. Shishkova.

PURPOSE: This book is intended for designers and research workers in ship-
building. It may also be useful to students taking courses in ship-
building and power machine building in schools of higher education.

COVERAGE: The book deals with the most common methods of aerodynamic
investigation of the blade apparatus of ship turbines and gives the
results of these investigations. Practical recommendations on the design

Card-3/4

YELIZAROV, V.S., kand.tekhn.nauk; KAMNEV, G.F., kand.tekhn.nauk

Study of radical leaks in marine turbines and choosing the
best size of covering, clearance, and degree of reaction in
the stage. Sudostroenie 26 no.2:21-29 (208) Feb '60. (MIRA 14:11)
(Marine turbines)

KAMNEV, I. G.

8c

A-4

Influence of isotonic solutions of sugar on epithelia of amphibia. KAMNEV (Trava. Physiol. Inst. Leningrad, 1936, 20, 127-128). Experiments on *viva* preparations show that the epithelial cells of the intestine and other organs do not change in isotonic solutions of sucrose and disaccharides. Consequently the saline ions of the external solution bathing the epithelial cells may be substituted by undissociated sugar molecules. Excited and smooth muscle, on the other hand, undergo reversible destructive changes.

J. Wa.

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

KAMNEV, I. Ye.

PROCESSES AND PROPERTIES OF

The nature of parabiotic and paranecrotic changes in living matter. I. Changes in some functional and physicochemical properties of skeletal muscle exposed to various alternative salt solutions. J. Kamnev. *Bull. biol. med. appl. U. S. S. R.* 7, 158-00188077 (1968) (English).

The immersion of *m. cut. pectoris* of frog in hypotonic Ringer soln. (75% isotonic Ringer soln. and 25% dist. H₂O) causes in 4-5 min. an abrupt decrease in the excitability of the muscle. Weak curare solns. have the same effect. On the 10-15th min. of exposure to the soln. another drop (primary) in muscle excitability is noted. Microscopic examn. shows the appearance of faint staining of the sarcoplasm, while a faint luminosity is observed in the dark field (gelation). The nuclei are colorless. After 20-30 min. a secondary drop in excitability occurs, and in a short time excitability is lost. A considerable increase in the intensity of sarcoplasm staining and the staining of nuclei was observed. During the development of paranecrosis (appearance of gelation and staining of nuclei) the skeletal muscle retains the capacity of conducting impulses. An isotonic soln. of KCl with 3 parts of Ringer soln. gave the same results except that muscle excitability was suppressed some time before the appearance of vital staining of the nuclei. Hypertonic solns. gave the same effect but without gelation, owing possibly to the peptizing action of the solns. which inhibits the colloidal changes in the muscle after denaturation of the substrate, and without vital staining, since the dye solns. are unstable in hypertonic media and ppt. out. These effects are observed when the muscle is transferred to isotonic solns.

S. A. Karjala

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

EZ

11 H

KAMNEV, I. Ye.

Certain data as to the nature of phytoncides. I. Tokopzev and I. Kamnev. *Compt. rend. acad. sci. U.R.S.S.* 51, 373-5 (1948).—Protein pptg. from onion and garlic juices on saltn. with NH_4Cl did not possess bactericidal powers. Oils obtained on ether extr. were bactericidal. The authors believe that these antibactericidal properties are due to a glucoside from which the oil is split off on hydrolysis. Barbara R. Murray

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

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KAMNEV, I. YE.

PA 54, 4974

USSR/Medicine - Cornea, Wounds and Injuries Mar/Apr 49
Medicine - Ophthalmology

"Reaction of the Cornea to a Direct Current," I. Ye.
Kamnev, Dept of Gen Morph, Inst of Experimental Med,
Acad Med Sci USSR, Leningrad, 32 pp

"Zhur Obshch Biol" Vol I, No 2

Study of experimental material showed that a direct current caused definite reactive changes in the corneal tissues of both a macro- and microscopic nature. Concludes that definite regroupings of an ionic nature underlie an extensive class of periodic processes, from various periodic formations in gelatin to rhythmic processes in the nerve and tissues of the cornea.

54/4974

KH...IVE...
Action of light on accumulation by cells and tissues of the roots of dyes and the deposition of the latter in the granules. I. R. Kamnev and M. Kh. Zakiyau (V. M. Molotov State Univ., Rostov-on-Don). *Doklady Akad. Nauk S.S.S.R.* 104, 932-4 (1955).--Roots of millet immersed in soln. of neutral red (methylene blue was also used in a few cases) under different illumination levels produced the following effects: The older outer layers of the roots absorb dyes very rapidly; the cells of the sheath which are rich with plasma show the deposition of the dyes in granules which gradually fill the cell. In the central cylinder the dyes are concd. in vacuoles. In young root-hair carrying tissues the dye is not formed into granules, but vacuoles of some cells are dyed. Illumination produces more intense dyeing than is observed in the dark in living tissues, except for the very outer layers which are unaffected. Vital dyeing in the dark produces less granules than in illuminated state. Thus the roots are not indifferent to illumination. G. M. K.

USSR / General Biology. Physical and Chemical Biology. 3

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14275

Author : Kamnev, I. Ye.; Gordeyeva, L. F.
Inst : Rostov-on-the-Don Medical Institute
Title : Reactive Cell Changes of the Cornea in
Animals, Effected by the Action of Hypertonic
Ringer's Salt Solutions

Orig Pub : Tr. Otchetn. nauchn. konferentsii (Rostovsk.-
n/D. Med. in-t) za 1956. Rostov-na-Donu,
1957, 213-216

Abstract : The possibility of increasing the intensity
of intracellular processes by the action of
hypertonic salt solutions, glucose solutions,
prepared in an isotonic Ringer solution and
CaCl₂ in various concentrations, were studied.
Experiments were carried out with the cornea

Card 1/2

4

USSR / General Biology. Physical and Chemical Biology.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14275

of a frog; the formation rate of granules of
neutral red served as an indicator for the in-
tensity of intracellular processes. The de-
position of granules is intensified at a
temperature of above 20° as well as in 2 and 4
percent glucose solutions and 2-4 multiple
Ringer solutions. High (above 27°) and low
(0°) temperatures and high concentrations of
salts and glucose produce a retardation of the
granule formation. The most stable are those
which form at the beginning when the first
granules of the dye appear and the environ-
mental conditions undergo various changes. --
V. V. Polovtsova

Card 2/2

Country : USSR

M

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

Abs Jour: RZhDiol., No 11, 1958, No 49046

separate granules, while the protoplasm and the nucleus are not stained. In aged cells, the intensity of granule formation is reduced. In dead cells, no granules are formed, the protoplasm and nucleus stain diffusely. The second method, using microscopic cell observations against a dark ground, is based on the fact that in the absence of light, the nucleus and protoplasm of normal cells are invisible. If a cell is subjected to unfavorable conditions, a radiance is seen in the nuclear membrane and granules of protoplasm. Live staining may be used as a quick and safe method for

Card : 2/3

the determination of seed vitality, while the method of observing the cells against a dark ground is recommended as an auxiliary procedure. --

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620310019-9"

Card : 3/3

M-122

KARILEV, I.Ya.; KOCHEVA, L.F.

Differential vital staining of intact and altered cells and a method of preparing stable vitally stained preparations. *Tsitologia* 1 no.4:450-453 J1-Ag '59. (MIRA 12:10)

1. Kafedra obshchey biologii Rostovskogo-na-Donu meditsinskogo instituta.

(STAINS AND STAINING (MICROSCOPY))

KAMNEV, I.Ye.; GORDYIEVA, L.F.

Method for permanent vitally stained preparations. Arkh.anat.
gist.i embr. 37 no.12:89-90 D '59. (MIRA 13:5)

1. Kafedra obshchey biologii (nav. - prof. I.Ye. Kamnev) Rostov-
skogo na Donu Gosudarstvennogo meditsinskogo instituta. Adres
avtorov: Rostov-na-Donu, Nakhichevanskiy pr., d.38, Rostovskiy
gosmedinstitut, kafedra obshchey biologii.
(STAINS AND STAINING)

KAMNEV, I.Ye.; GORDEYEVA, L.F.

A method for intravital differential staining of normal and damaged cells. Arkh. anat. gist.i embr. 38 no.1:99 Ja '60. (MIRA 13:7)

1. Kafedra obshchey biologii (zaveduyushchiy - doktor biol.nauk, prof. I.Ye. Kamnev) Rostovskogo gosudarstvennogo meditsinskogo instituta. Adres avtorov: Rostov-na-Donu, Nakhichevanskiy pr., 38; Rostovskiy Gosudarstvennyy meditsinskiy institut, kafedra obshchey biologii.
(STAINS AND STAINING (MICROSCOPY))

KAMNEV, I.Ye.; GORDEYEVA, L.F.

Process of excitation in the epithelial tissues and cells.
TSitologiya 4 no.3:347-353 My-Je '62. (MIRA 16:3)

1. Kafedra obshchey biologii i parazitologii Rostovskogo-na-Donu
meditsinskogo instituta. (EPITHELIUM)

1. KALININ, M.
2. USSR (600)
4. Cotton Growing
7. In the drive for high yields, Khlopkovodstvo No. 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

PAVLOV, A.N., otv. za vypusk; VOLODICHEVA, V.N.; IVANOVA, A.I.; KULAKOV, I.N.; LYAMINA, T.N.; MIT'KINA, L.I.; POZDRYAKOVA, N.P.; RODIONOVA, L.I.; ROMANOVA, N.M.; SCFIYEV, E.S.; CHICHKINA, A.A.; TRESORUKOVA, Z.G.; BOGATYREV, P.P.; BROVKINA, A.I.; IVANOVA, L.D.; IVASHKIN, G.A.; KAMNEV, N.I.; LYSANOVA, L.A.; OZHEREL'YEVA, Z.I.; PAVLOVA, T.I.; TYUTYUNOVA, N.I.; UMBITSYNA, A.P.; ZHIVILIN, N.N.; ALESHICHEV, M.P.; VINOGRADOV, V.I.; YEREMIN, F.S.; KRAVCHENKO, Ye.P.; LOVACHEVA, M.V.; NIKOL'SKAYA, V.S.; MAKHOV, G.I.; SKEGINA, A.V.; TARKYEV, A.V.; KHOLINA, A.V.; BRYANSKIY, A.M.; BURMISTROVA, V.D.; GRIGOR'YEVA, A.M.; LUTSENKO, A.I.; OREKHOVA, Z.V.; TEPLINSKAYA, N.V.; FEOKTISTOVA, V.I.; BUTORIN, I.M.; BOCHKAREVA, L.D.; BURENINA, V.A.; VETUSHKO, A.M.; VIKHLYAYEV, A.A.; SOROKIN, B.S.; TSYBENKO, L.T.; KHLEBNIKOV, V.N.; DUMNOV, D.I.; STEPANOVA, V.A.; MANYAKIN, V.I., red.; VAKHATOV, A.M.; MAKAROVA, O.K., red.izd-va; PYATAKOVA, N.D., tekhn.red.

[Soviet agriculture; a statistical manual] Sel'skoe khoziaistvo SSSR; statisticheski sbornik. Moskva, 1960. 665 p.

(MIRA 13:5)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye upravleniye. 2. Upravleniye statistiki sel'skogo khozyaystva Tsentral'nogo statisticheskogo upravleniye SSSR (for all except Makarova, Pyatakova).

(Agriculture--Statistics)

KAMNEV, P.

Dissemination of the work methods of innovating forgers. Sots.trud.
no.3:83-87 Nr '56. (MIRA 9:7)

1.Rukoveditel' Leningradskoy gorodskoy kompleksnoy brigady.
(Leningrad--Forging) (Labor productivity)

KAMNEV, P.I., Cand Biol Sci -- (diss) "Problems
of the natural focus of the plague in Northeastern
China (in the ^{western} ~~fronts~~ ^{mountains} of the Manchurian ~~Valley~~ Plain)."

Saratov, 1958, 19 pp with graphs (Min of Health USSR.

State Sci Res Inst of Southeast^{ern} USSR "Microbe") 300
copies (KL, 50-58, 122)

KAMNEV, P.I.

Natural plague focus in southwestern northeastern China in intensively cultivated districts. Izv.Irk.gos.nauch.-issl.protivo-chum.inst. 15:57-77 '57. (MIRA 13:7)

(CHINA, NORTHEAST--PLAGUE)

(CHINA, NORTHEAST--BODENITA--DISEASES AND PESTS)

KAMNEV, P.I.; ZHERNOVOV, I.V.; SKVORTSOV, G.N.

New findings of dormouse *Myomimus personatus* Ogn. in West Kopet
Dag. Zool. zhur. 41 no.2:297 F '62. (MIRA 15:4)

1. All-Union Research Institute "Microbe", Sarator and Turkmenian
Anti-Plague Station, Ashkhabad.

(Kopet Dag--Dormice, Fossil)

MESHCHERIN, Vladimir Timofeyevich, doktor tekhn. nauk, prof.; ARTES,
Aleksey Eduardovich, kand. tekhn. nauk; KAMNEV, P.V., red.;
FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[New machinery for forging] Novaia tekhnika v shtampovochnom pro-
izvodstve; stenogramma lektsii, pročitannoi v LDNTP na zaniatii
seminara po kovke i goriachei shtampovke. Leningrad, 1961. 25 p.
(Leningradskii Dom nauchno-tekhnicheskoi propagandy. Seria: Go-
riachala i kholodnaia obrabotka metallov davleniem, no.7)
(MIRA 14:10)

(Forging machinery)

KAMNEV, P. M.

Tree planting

Instrument for cutting acorns. Les. khoz. 5 no. 3(42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

KAMNEV, Petr Vladimirovich,

[Progressive technology of drop forging] Progressivnaia tekhnologia
kuznechno-shtampovogo proizvodstva. M, Mashgiz, 1952. [453 p.]
(Dies (Metal-working)) (MLRA 8:4)

KAMNEV, P.V., dotsent, redaktor.

[Progressive technology in forging and stamping] Progressivnaia
tehnologiya kovanchno-shtampovogo proizvodstva. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953.
380 p. (MLRA 7:7)
(Forging)

KAMNEV, P.V., dotsent.

Developing interfactory Stakhanov technology. Trudy LIEI no.6:
203-217 '53. (MLRA 9:8)

(Industrial management)

KAMNEV, P. V.

5542 Kamnev, P. V. Obshchiye svedeniya dlya kuznetsov. Pod red. I. A. Baranova. L., 1954. 30 s. s. ill. 22 sm. (Vsesoyuz. O-VO po rasprostraneniyu polit. i nauch. znaniy, Leningo. dom nauch--tekh. Propagandy. Kom. kuznetsov i shtampovahchikov LONITOMash. B-chka kuzneta-novatora. Vyp.2). 6,250 ekz. 70k. (55-1196) P 621.73st

SO: Knizhnaya Letopis' , Vol. 1,1955

KAMNEV, P.V.; YEKIMOV, M.K.; GAI'OV, B.I., inzhener, retsenzent; OBOLDUYEV,
G.T., inzhener, redaktor; POL'SKAYA, R.G., tekhnicheskij redaktor

[Mechanization of laborious operations in forge shops] Mekhanizatsia
trudopemkikh operatsii kuznechnogo proizvodstva. Moskva, Gos. nauchno-
tekh. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 46 p.
(Forging) (MLRA 7:11)

KAMNEV, P.V., kandidat tekhnicheskikh nauk, detsent.

Saving metal in forging and stamping plants in the U.S.S.R.
Trudy LNI no.8:114-142 '54. (MIRA 9:9)
(Forging) (Sheet-metal work)

KAMNEV, P V , ed.

43
.R92606

Peredovoy Opyt Kovki i Goryachey Shtampovki
(Leading Experience in Forging and Heat Stamping)
Leningrad, Mashgis, 1955.

106 p. Diagr., Tables.

VASIL'YEV, G.T.; KAMNEV, P.V., red.; FREGER, D.P., tekhn.red.

[Making use of potentials in forging work; practices of the Kirov Plant in Leningrad] Ispol'zovanie rezervov kuznechnogo proizvodstva; iz opyta Leningradskogo Kirovskogo zavoda. Leningrad, 1955. 15 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.89(777))
(MIRA 10:12)

(Forging)

KAMNEV, P.V.

ANGERVAKS, A.I.; KAMNEV, P.V., kand.tekhn.nauk, red.; GVIRTS, V.L.,
tekhn.red.

[Hot stamping without projections in closed dies] Bezobloinaiia
goriachaiia shtampovka v zakrytykh shtampakh. Leningrad, 1955.
19 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy.
Informatsionno-tekhnicheskii listok, no.98(786)) (MIRA 10:12)
(Forging)

KAMNEV, P.V.

ZBYGERMAKHER, A.I.; KAMNEV, P.V., kand.tekhn.nauk, red.; FREGER, P.D., tekhn.red.

[Reducing stamping angles in hot hammer forging] Umen'shenie
shtampovochnykh uklonov pri goriachei shtampovke pod molotami.
Leningrad, 1955. 6 p. (Leningradskii dom nauchno-tekhnicheskoi
propagandy. Informatsionno-tekhnicheskii listok, no.27(715))
(MIRA 10:12)

(Forging)

KAMNEV, P.V.

VALYAVKIN, P.M., inzh.; KAMNEV, P.V., kand.tekhn.nauk, dotsent, red.;
GVIRTS, V.L., tekhn.red.

[Improving the technical and economic indexes of a forging shop;
practices of the I.V.Stalin Metal Plant in Leningrad] Uluchshenie
tekhniko-ekonomicheskikh pokazatelei kuznechnogo tsekha; iz opyta
Leningradskogo Metallicheskogo zavoda imeni I.V.Stalina. Leningrad,
1955. 13 p. (Leningradskii dom nauchno-teknicheskoi propagandy.
Informatsionno-teknicheskii listok, no.92(780)) (MIRA 10:12)
(Forging)

KAMNEV, P.V., LEPIN, A.B., redaktor; LEVONEVSKAYA, L.G., tekhnicheskii
redaktor

[Progressive interplant technology; on the 250th anniversary of
Leningrada. [Leningrad] Lenizdat, 1957. 146 p. (MLRA 10:9)
(Machine-shop practice)

KAMNEV, P.V.

25(5)

PHASE I BOOK EXPLOITATION

SOV/2166

Opyt ratsionalizatsii kuznechnogo proizvodstva; k 250-letiyu Leningrada
(Experience in Improving Forge Work; On the 250th Anniversary of Leningrad)
[Leningrad] Lenizdat, 1957. 194 p. 3,000 copies printed.

Ed. (Title page): P.V. Kamnev; Ed. (Inside book); Ye. V. Yemel'yanova;
Tech. Ed.: N.I. Rodchenko

PURPOSE: The collection of articles is intended for workers and engineers in
forge shops and also for designers of machinery in related branches of machine
manufacturing.

COVERAGE: The book describes the experience gained at several Leningrad plants
in the rationalization of manufacturing processes, modernization of equipment,
and improvement in the economics and planning of forging production. Tables
and drawings accompany every article. No personalities are mentioned. There
are no references.

TABLE OF CONTENTS:

Foreword

Card 1/3

KAMNEV, P. V.

137-1958-3-5043

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 84 (USSR)

AUTHOR: Kamnev, P. V.

TITLE: Primary Goals of the Press-forging Shops in Leningrad
(Osnovnyye zadachi kuznechno-shtampovochnykh tsekhov
leningradskikh zavodov)

PERIODICAL: V sb. : Kuznechno-shtampovochn. proiz-vo. Leningrad,
Lenizdat, 1957, pp 25-45

ABSTRACT: In the struggle for further technical progress the following
goals are pin-pointed: specialization and co-operation in the
production, organization of specialized shops, rationalization
of the press-forging production, and group training of workers.
P. S.

Card 1/1

KAMNEV, P.V., inzhener.

Disseminating advanced experience in factories. Mashinostroitel'
no.2:33-36 F '57. (MLRA 10:5)

1. Predsedatel' Oblastnoy seksii obrabotki metallov davleniyem
Leningradskogo pravleniya Nauchno-tehnicheskogo otdela Mashproma.
(Factory management)

ANGERVAKS, Al'fred Ivanovich, inzh.; KAMNEV, P.V., red.; FREGER,
D.P., tekhn.red.

[Developing and mastering the process of hot double-die drop
forging without flash formation] Razrabotka i osvoenie
protssesa sdvoennoi bezobloinoi goriachei shtampovki. Lenin-
grad, Lenigr.dom nauchno-tekhn.propagandy, 1958. 23 p.
(Informatsionno-tekhnicheskii listok, no.60. Kovka i shtam-
povka). (MIRA 12:8)

(Forging)

BRIN, Izrail' Davydovich, inzh.; GIL'DENBLAT, Semen Naumovich, inzh.;
KAMNIZV, P.V., kand., tekhn. nauk, red.; KUBNEVA, M.M., tekhn. red.

[Die stamping on mechanical forging presses; factory experience]
Shtampovka na mekhanicheskikh kovochnykh pressakh; opyt zavoda.
Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1958. 27 p.
(Informatsionno-tekhnicheskii listok, no. 58. Kovka i shtampovka)
(Forging) (MIRA 12:4)

ATROSHENKO, Aleksey Petrovich; VASIL'YEV, Gavriil Tarasovich;
EDUARDOV, Mikhail Sergeyevich; ~~KAMNEV, P.V.~~ dotsent, kand.
tekhn.nauk, obshchiy red.; BORODULINA, I.A., red.izd-va;
SPERANSKAYA, O.V., tekhn.red.

[Forging with drop hammers and on horizontal forging machines]
Izgotovlenie pokovok pod shtampovochnymi molotami i na gori-
zontal'no-kovochnykh mashinakh. Pod obshchei red. P.V.Kamneva.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostr.lit-ry, 1958. 91 p.
(Bibliotekha kuznetna-novatora, no.6) (MIRA 12:9)
(Forging)

SMIRNOV-ALYAYEV, Georgiy Aleksandrovich, prof., doktor tekhn.nauk;
KAMNEV, P.V., red.; FREGER, D.P., tekhn.red.

[Principles of modern methods for calculating press forging
processes] Kratkie osnovy sovremennykh metodov rascheta
protssessov obrabotki metallov davleniem. Leningrad, Leningr.
dom nauchno-tekhn.propagandy, 1958. 97 p. (MIRA 12:8)
(Forging) (Sheet-metal work)

DIN, Iosua Movshe Vul'fovich, ~~KAMNEV, P. V.~~, dotsent, kand. tekhn. nauk, obshechiy red.; PAVLOVICH, P. M., inzh., retsenzent; GIL'DENBLAT, Sh. B., inzh., red.; BORODULINA, I. A., red. izd-va; SPERANSKAYA, O. V., tekhn. red.

[Manufacture of forgings on special machines; rolling, reducing, and sheet-metal stamping in the manufacture of forged and stamped articles] Izgotovlenie pokovok na spetsial'nykh mashinakh; prokatka, reduktirovanie i listovaya shtampovka v kuznechno-shtampovnochnom proizvodstve. Pod obshchey red. P. V. Kamneva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 54 p. (Bibliotekhka kuznetsa-novatora, no. 7) (MIRA 12:2)
(Rolling (Metalwork)) (Sheet-metal work)

GINZBURG, Zalman Moiseyevich; STEL'MAKOV, Sergey Mikhaylovich; BANGE,
B.O., inzh., retsenzent; FAVLOVICH, P.M., inzh., retsenzent;
KAMNIKOV, P.M., dotsent, kand.tekhn.nauk, obshchiy red.; ATRO-
SHENKO, A.P., dotsent, kand.tekhn.nauk, red.; BORODULINA, I.A.,
red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Modernizing the press-forging equipment and dies used in forge
shops] Modernizatsia kuznechno-pressovogo oborudovaniia i
shtampovoe khoziaistvo kuznechnykh tsekhov. Pod obshchel red.
P.V.Kameneva. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1958. 66 p. (Bibliotekha kuznitsa-novatora, no.8)

(MIRA 12:12)

(Forge shops--Equipment and supplies)

KAMNEV P. V.

PHASE I BOOK EXPLOITATION 892

Angerovaks, A.I., Brin, I.D., Gil'denblat, S.N., Golovneva, M.A.,
Golovnev, Ivan Fedorovich, Kamnev, Petr Vladimirovich, Kutsovskiy,
F.V., Plyatskiy, V.M., Sokolov, N.L.

Bezobloynaya shtampovka (Flashless Press-forming) Moscow, Mashgiz, 1958.
294 p. 7,000 copies printed.

Ed.(title page): Golovnev, I.F., Candidate of Technical Sciences;
Reviewers: Stel'makov, S.M., Engineer, and Eduardov, M.S., Engineer;
Ed.(inside book): Obolduyev, G.T., Engineer; Ed.of Publishing
House: Chras, M.A.; Tech. Ed.: Speranskaya, O.V.; Managing Ed. for
literature on the technology of machine building (Leningrad Division
of Mashgiz): Naumov, Ye.P., Engineer.

PURPOSE: The book is intended for engineering personnel and it may be
useful to students of vtuzes and technical schools.

COVERAGE: The book presents the processes of press forming without
flash in closed dies from steel and nonferrous alloys later called

Card ~~1/5~~

SOV/137-59-1-1720

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 227 (USSR)

AUTHOR: Kamnev, P. V.

TITLE: The Work of the Municipal Industrial Development Team
(Opyt raboty gorodskoy kompleksnoy brigady)

PERIODICAL: V sb.: Novoye v kuznechno-shtampovochn. tsekhakh Leningrada.
Leningrad, 1958, pp 5-17

ABSTRACT: The author describes the work of the Industrial Development Team of the city of Leningrad in extending assistance to the various plants in Leningrad toward a further development of the forging-and-stamping industry in the light of the tasks and requirements set forth by the Twentieth Party Congress of the Communist Party of the Soviet Union.

Ye. L.

Card 1/1

PHASE I BOOK EXPLOITATION

SOV/4944

Kamnev, P.V., Candidate of Technical Sciences, Docent, Ed.

Peredovoy opyt kovki (Advanced Experience in Forging) [Leningrad] Lenizdat, 1959. 246 p. 5,000 copies printed.

Ed.: Ye.V. Yemel'yanova; Tech. Ed.: I.M. Tikhonova.

PURPOSE: This collection of articles is intended for workers and engineers in die-forging shops and for personnel of affiliated branches in the machine industry.

COVERAGE: The articles deal with the advanced experience of a number of Leningrad plants in mechanizing and improving production methods in die forging. Recommendations are made concerning the specialization of forging shops, and the further development of open-die forging processes. Articles by operators-innovators in forging shops of the Novo-Kramatorskiy (New Kramatorsk) and Ural'skiy (Ural) machinery plants are included. The collection contains some of the papers which were discussed during the conference in June 1958 (P.V. Kamnev, Chairman) on open-die forging, called by the regional section for the pressworking of metals of the Leningradskoye Pravleniye nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (Leningrad

Card 1/4

Advanced Experience in Forging

SOV/4944

Kireyev, F.R., Chief of Section, M.R. Kavitskiy, Engineer, and T.L. Oleynikov, Operator-Innovator. Advanced Experience of the Forging Operators of the Ural Plant.

178

Amosov, N.I., Chief Process Engineer, Forging Shop. Examples of Promoting Efficiency in the Drop-Forging Processes

206

Nadiryants, L.M., Engineer. Promoting Efficiency in the Drop-Forging Processes

224

Serafimovich, M.M., Operator-Innovator. Examples of Promoting Efficiency in the Production of Small Forgings

234

AVAILABLE: Library of Congress

Card 4/4

VK/wrc/sfm
4/24/61

KAMNEV, P.V.

PHASE I BOOK EXPLOITATION

SOV/4672

Ispol'zovaniye rezervov mashinostroitel'nogo proizvodstva; iz opyta peredovykh zavodov (Utilization of Reserves in the Machine Building Industry; Practices of Leading Plants) [Leningrad] Lenizdat, 1959. 258 p. 3,000 copies printed.

General Ed.: A.M. Kucher, Candidate of Technical Sciences; Ed.: M.S. Chervova.
Tech. Ed.: I.M. Tikhonova.

PURPOSE: This collection of articles is intended for workmen and technical personnel of the machine-building industry.

COVERAGE: The book examines principal trends in the utilization of unused production capacity of machine building plants and indicates ways to realize these reserves. On the basis of examples drawn from the practice of the leading plants of the Lensovnarkhoz, the authors show how to utilize this unused capacity by applying the following measures: improvement of the processability of constructions; bringing the shapes and sizes of blanks closer to the shapes and sizes of finished parts; replacement of mechanical machining with cold stamping; improvement of the efficiency of existing technological processes and introduction of new ones; and a comprehensive mechanization and automation of the equipment. The problem of utilizing unused capacity in the construction of heavy machinery is dealt with separately. No personalities are mentioned. There are no references.

~~Card 1/3~~

~~Card 2/3~~

25(5)

AUTHOR:

Kamnev, P.V., Candidate of Technical Sciences

SOV/117-59-2-6/27

TITLE:

The Group Method of Production of Forge Work (Grup-
povoy metod proizvodstva pokovok)

PERIODICAL:

Mashinostroitel', 1959, Nr 2, pp 8-13 (USSR)

ABSTRACT:

In this article, the author praises the success of the introduction of the group method of production achieved by the Mekhanicheskiy zavod (Mechanical Plant) of the Upravleniye tyazheloy promyshlennosti (Administration for Heavy Industry) of the Lensov-narkhoz. The plant installed five crankshafts presses with pressing force from 200 to 800 tons for forge works of up to 70 kg. The lag in introducing the group production method in other Leningrad plants is cited. The author describes some innovations introduced in other unidentified Leningrad plants. There are 12 sets of diagrams and two tables.

Card 1/1

KHIZHENYAK, P.D., glavnyy red.; GLAZOV, G.A., zam.glavnogo red.; BLYUMBERG, V.A., red.; VASIL'KOV, B.A., red.; GLUSHKOV, A.T., red.; ZHOLOBOV, V.V., red.; KAMNEV, P.V., red.; KANTIYEV, N.M., red.; KISEL'EV, M.I., red.; KOSTYGOV, I.N., red.; MOISHYEV, A.A., red.; NOVIKOV, A.P., red.; SIMIN, S.A., red.; CHERNYSHYEV, P.S., red.; SHAGURIN, K.A., red.; SHUB, I.Ye., red.; DORMENT'YEVA, I.K., red.; SEMENOVA, A.V., tekhn.red.

[Experience of mechanical engineers; technical information publication] Opyt mashinostroitelei; informatsionno-tehnicheskii sbornik. Leningrad, Sovet nar.khoz.Leningr.ekon.administrativnogo raiona. TSentr.biuro tekhn.informatsii, 1960. 88 p.

(MIRA 13:11)

(Mechanical engineering)

KAMNEV, P. V.

PHASE I BOOK EXPLOITATION

SOV/4754

Vsesoyuznoye soveshchaniye po gruppovym tekhnologicheskim protsessam v mashinostroyeni i priborostroyeni. 1st, Leningrad, 1959

Gruppovaya tekhnologiya v mashinostroyeni i priborostroyeni (Group-Processing Methods in the Machine and Instrument Industries) Moscow, Mashgiz, 1960. 378 p. Errata slip inserted. 7,000 copies printed.

Ed. (Title page): S.P. Mitrofanov, Lenin Prize Winner, Candidate of Technical Sciences; Eds.: A.S. Azarov, Candidate of Technical Sciences, N.G. Gutner, Engineer, P.V. Kamnev, Candidate of Technical Sciences, A.K. Kutay, Candidate of Technical Sciences, R.A. Reznikov, Engineer, and G.N. Shalgin, Candidate of Economic Sciences; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz); Ye.P. Naumov, Engineer; Ed. of Publishing House: N.Z. Simonovskiy; Tech. Ed.: O.V. Speranskaya.

PURPOSE: This collection of articles is intended for technical personnel in machine plants, designing organizations, and scientific-research institutes. It may also be useful to skilled workers.

Card ~~1~~ 7

Group-Processing (Cont.)

SOV/4754

COVERAGE: The collection consists of papers presented at the 1st All-Union Conference on Group Processing in the Machine and Instrument Industries, held November 24-28, 1959 in Leningrad. The conference was called by scientific and technical societies of the machine and instrument industry, GNTK RSFSR, and Lensovmarkhoz. The articles are based on the experience of industry in introducing the grouping principle in processing. They discuss basic trends in development, and group machining as the basis of mechanized continuous production. The designing of automatic production lines, construction of accessories, and modernization and specialization of equipment are discussed. Problems dealing with the introduction of group-machining methods into processing on various machine tools and into production of blanks (casting, pressworking, pressing of plastics) are considered. Planning, standardization, and methods for calculating the economic effectiveness of group processing are also treated. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

From the Publisher

3

Card 2/7

Group-Processing (Cont.)

SOV/4754

PART I. PROCESSING IN BLANK-MAKING DEPARTMENTS

Mednikov, Z.G. [Leningrad]. Application of the Group Machining Method in Die Forming of Molten Metal and in Die Casting 5

Kamnev, P.V. [Leningrad]. Group Method in the Manufacture of Forgings 22

Chistoserdov, P.S. [Mogilev]. Cold Forging in Group Dies With Exchangeable Forming Parts 42

Vostrosovskiy, A.V. [Leningrad]. Group Method of Processing Parts by Forging (From the Work Experience of the "Vulkan" Plant) 58

Platov, A.V. [Leningrad]. Basic Principles of Introduction of Group Processing in the Production of Articles of Thermosetting Plastics 67

PART II. MECHANICAL MACHINING AND ASSEMBLY PROCESSES

Bachelyuk, I.G. [Kiyev]. Introduction of the Group-Machining Method for Machining Parts on Various Metal-Cutting Machine Tools (From the Experience of the Kiyev "Arsenal" Plant) 87

Card 3/7

S/182/60/000/006/009/009
A161/A029

AUTHOR: Kamnev, P.V.

TITLE: A Seminar on the Group-Method of Forging Production

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 6, p. 48

TEXT: The seminar was the first on the "group-method" of forging production. It was convened on February 2 - 7, 1960, in Leningrad and had been organized by the Ural'skiy dom tekhniki (Ural House of Techniques), Leningradskiy dom nauchno-tekhnicheskoy propagandy (Leningrad House of Scientific-Technical Propaganda), and the Sverdlovsk and Leningrad sections of metalworking by pressure of NTO Mashprom; 249 delegates from the Urals and from the Leningrad region participated. Reports were heard on the essence of the "group-method" (no details are given in the article), its prospective development and its role as the fundamental means for specialization of forging shops. Information on the use of this method was given in reports of Engineers S.N. Gil'denblat of Armaturnyy zavod (Fittings Works, Leningrad); Z.S. Bogdanova of Mekhanicheskiy zavod (Mechanical Works, Leningrad); Yu.I. Vits of "Elektrosila" works, Leningrad; V.P. Chikidovskiy of Metallicheskiy zavod (Metal Works, Leningrad); S.K. Kruchinin of

Card 1/3

A Seminar on the Group-Method of Forging Production

S/182/60/000/006/009/009
A161/A029

Izhevskiy metallurgicheskiy zavod (Izhevsk Metallurgic Works); V.M. Manayev of Uralmashzavod; A.M. Sychev of the Sverdlovsk Sovnarkhoz; A.I. Maksimov of the Gor'kiy Sovnarkhoz, et al. (No information on the contents of the reports is given). The participants were shown the practical use of the method directly at the Leningrad works; at the Fittings Works (mass production of forgings on crank presses, friction presses and horizontal forging machines); "Elektrosila" (mass and small-lot production with the use of stamping drop hammers and crank presses); Mechanical Works (combined forging and hot stamping on crank presses, small-lot production); Metal Works (forging on air-steam forging drop hammers and stamping on stamping drop hammers and friction presses). The drawings of the dies, attachments, other technologic documents and pamphlets published by the NTO Mashprom jointly with the Leningrad House of Scientific-Technical Propaganda were distributed. The seminar decisions included the following statements and recommendations: 1) The "group-method" is an effective means for radical improvement of production techniques; 2) The available first experience data must be used in the first line for piece, small-lot and mass forging production; 3) The method must be accepted as the foundation for specialization of forging shops. It was stated that the method a) gives forgings nearer to ready parts in shape and dimensions; b) reduces metal waste; c) permits special auxiliary equipment to be used in a wider

Card 2/3

A Seminar on the Group-Method of Forging Production

S/182/60/000/006/009/009
A161/A029

range of work; d) increases the production lots, which makes possible the utilization of mass production methods in small-lot production; e) extends the application range for principally new technology (pressing, extrusion, rolling, etc.); f) raises the equipment utilization coefficient; g) raises 2 - 3 times and more the work efficiency of worker teams; h) reduces the consumption of steam, fuel, metal for the forgings, die steel, and hence the production costs; i) improves the work conditions. It was decided that the organization of such seminars is necessary also in other economic regions of the USSR, and one more seminar for specialists of the Urals and Leningrad is advisable. ✓

Card 3/3

SOKOLOV, Nikolay Leonidovich, inzh.; KAMNEV, P.V., kand. tekhn. nauk, dots.,
red.; SLITSKAYA, I.M., red.; POMICHEV, A.G., red. izd-va; BELOGUROVA,
I.A. tekhn. red.

[Modern processes of hot stamping on forging and stamping crank pres-
ses; survey of advanced practice in the automobile industry] Prog-
ressivnye protsessy goriachei shtampovki na krivoshipnykh kovochno-
shtampovochnykh pressakh; obzr peredovogo opyta avtomobil'noi pro-
myshlennosti. Pod red. P.V.Kamneva. Leningrad. Pt.1. 1961. 52 p.
Pt.2. 1961. 55 p. (MIRA 14:7)

(Sheet-metal work)

KAMNEV, Petr Vladimirovich; YEMEL'YANOVA, Ye. V., red.; PRESNOVA, V. A.,
tekh. red.

[Group method in forging] Gruppovoi metod proizvodstva pokovok.
Leningrad, Lenizdat, 1961. 205 p. (MIRA 15:6)
(Forging)

SMIRNOV, Vasilii Sergeevich; DURNEV, Vasilii Dmitriyevich; KASHEVSKIY, Nikolay Petrovich; KAMNEV, P.V., kund. tekhn. nauk, red.; MITARCHUK, G.A., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Longitudinal rolling of periodic shapes] Prodol'naiia periodicheskaia prokatka. Pod red. V.S.Smirnova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 254 p. (MIRA 14:8)

1. Chlen-korrespondent AN SSSR (for Smirnov)
(Rolling (Metalwork))

BULGAKOV, Boris Sergeevich; KANNEV, P.V., red.; FREGER, D.P.,
red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Making large titanium alloy forgings] Kovka krupnykh
pokovok iz titanovogo splava; stenogramma lektsii ob
opyte zavodov, pročitannoi v LDNTP na zaniatii semi-
nara po kovke i goriachei shtampovke. Leningrad, 1963.
35 p. (MIRA 17:1)
(Titanium alloys) (Forcing)

KAMNEV, P.V.

New developments in the production of large forgings. Kuz.-
shtam. proizv. 5 no.6:5-7 Je '63. (MIRA 16:8)

KAMNEV, P.V.

Multiple production method in forging. Mashinostroitel' no.1:41-42
Ja '64. (MIRA 17:2)

SMIRNOV-ALYAYEV, G.A., prof., doktor tekhn. nauk; ANGERVAKS, A.I.,
inzh., retsenzent; KAMNEV, P.V., kand. tekhn. nauk, red.

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(MIRA 16:4)

(Refrigeration and refrigerating machinery)
(Epoxy resins)

L 46056-66 EEC(k)-2/EWT(d)/FSS-2 WS-2/QD

ACC NR: AT6022341

SOURCE CODE: UR/0000/66/000/000/0032/0036

AUTHOR: Kamnev, Ye. F.; Belov, P. V.

ORG: None

TITLE: A device for automatically choosing the selection angle in a short-wave communications system with spatial beam selection and relative phase keying

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyaschennaya Dnyu radio. 22d, 1966. Sektsiya teorii i tekhniki peredachi diskretnykh signalov. Doklady. Moscow, 1966, 32-36

TOPIC TAGS: phase coding, antenna radiation pattern, short wave propagation

ABSTRACT: The authors discuss the SW spatial selection system for separating reception signal beams with respect to angle of arrival by using an antenna with a controllable narrow radiation pattern in the vertical plane. Effective operation of a communications system with this type of selection requires a device which automatically selects the principal lobe of the radiation pattern in the position corresponding to the selection angle. A device of this type is proposed which is designed for operation of a radio channel in the relative phase keying system (any multiplicity). A block diagram of the device is given for the case where the antenna (cophased array) has two independent controllable lobes in the vertical plane, the working lobe and

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ACC NR: AT6022341

an auxiliary lobe which continuously scans the range of possible angles for signal arrival. It is assumed that the scanning process is discrete, usually consisting of no more than ten steps. The operating principle of the automatic selection device is based on the fact that during operating on a single beam (when the ratio of the power of the selected beam to that of the remaining beams is high) with frequency doubling, keying modulation stops and the signal component corresponding to the doubled carrier frequency remains. During operation on two (or more) beams with a delay time greater than the length of the elementary pulse group, keying continues with frequency doubling and there are other signal components corresponding to the spectrum of phase-keyed oscillation in addition to that for the doubled carrier frequency. Consequently if there are facsimiles of the phase-keyed signal of identical amplitude for the cases of single- and multiple-beam radio channels, they may be differentiated by measuring the spectral density on the doubled carrier frequency (after the doubler). The higher spectral density corresponds to the single-beam radio channel. The device contains a limiter designed for balancing the amplitudes of oscillations received by the auxiliary lobe of the antenna in each of its positions and for eliminating spurious amplitude keying. A high-Q resonator tuned to the doubled frequency is used for accumulating the energy of the signal on this frequency during the period when the auxiliary lobe is in one of its positions. After passing through the detector, the rectified voltage is fed through a switch corresponding to the position of the auxiliary lobe for a given time interval to a memory unit (capacitor) which stores the magnitude of this voltage. After the voltage corresponding to the last position has

Card 2/3

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ACC NR: AT6022341

been stored, all voltages are compared. A control pulse is then sent from the capacitor with the maximum voltage to the control unit for the working lobe, and this lobe is set at the position corresponding to that of the auxiliary lobe where the maximum voltage was recorded. Calculations show that the time for filter integration should be at least 100 times greater than the duration of an elementary pulse group. For instance at an operating speed of 2,000 bauds, the band of the integrator filter should be 20 cps giving a scanning time of 0.5 sec for ten steps. The multibeam pattern remains constant through this time interval. The accuracy of adjustment of the system to the optimum beam may be increased by sending the command for fixing the working lobe of the radiation pattern after several scanning cycles. Orig. art. has: 1 figure.

SUB CODE: 20/7/SUBM DATE: 09Apr66

Card 3/3 *gd*

ACC NR: AM5026679

Monograph

UR/

Petrovich, Nikolay Timofeyevich; Kamnev, YEvgeniy Fedorovich

Problems in space radio communications (Voprosy kosmicheskoy radiosvyazi)
Moscow, Izd-vo "Sovetskoye radio", 64. 0312 p. illus., biblio. Errata
slip inserted. 6,000 copies printed.

TOPIC TAGS: space communication, radio communication system, radio relay, artificial earth satellite, lunar communication, global communication, active communication satellite, passive communication satellite

PURPOSE AND COVERAGE: The book examines two principle aspects of space radio communication: the use of artificial earth satellites (and the Moon) for creating global and local systems of ground communication of a distinct type and the guarantee of two-way radio communication with Earth for space ships. It presents the general principles for constructing communication systems with relay through the artificial earth satellite and gives examples of global and local systems of ground communications. On the basis of an analysis of the values entering into the equation of active and passive communication, the book presents an evaluation of the optimum working frequencies and energy losses in active and passive relaying. It gives an energy calculation of space radio communication lines in the limits of the solar system. It also presents materials published on communication systems with space objectives launched by the U. S. S. R. and the U. S. A., and on systems of ground communication

Card 1/2

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through artificial earth satellites. The book is intended for students of higher educational institutions, for radio specialists, and specialists concerned with the problems of space radio communication in one way or another.

TABLE OF CONTENTS (abridged):

Introduction --5

Ch. I. Use of artificial earth satellites as radio relay in ground communication systems --7

Ch. II. Use of the Moon as a relay in ground communication systems --197

Ch. III. Communication with space ships located within the limits of the solar system --216

Ch. IV. Experimental systems of radio communication with artificial earth satellites and space rockets --269

Bibliography --302

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Card 2/2

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