L 26054-65
ACCESSION NR: AP3008442

ASSOCIATION: none

SUBMITTED: 07Mar62 ENCL: 00 SUB CODE: MM

NO REF SOV: 003 OTHER: 000

Card 3/3

MASHKA, N.A., kand.; KAZAKOV, N.F., doktor tekhn. nauk

Diffusion bonding of R18 high-speed steel. Svar. proizv. 12:22-23 D '63. (MIRA 18:9)

1. Nauchno-issledovatel'skaya laboratoriya diffuzionnoy svarki v vakuume Soveta narodnogo khozyaystva Novosibirskogo ekonomicheskogo rayona.

KAZAKOV, N.F., doktor tekhn. nauk, prof.; NOVIKOV, I.A., inzh.

Diffusion welding of magnetic alloys. Vest. mashinostr. 43 no.10:84-86 O '63. (MIRA 16:11)

KAZAKOV, Nikolay Fedotovich, doktor tekhn. nauk; USHAKOVA, Svetlana Yevgen'yevna, kand. tekhn. nauk; TYUL'KOV, M.D., red.

[Diffusion bonding in a vacuum of some brans of high-alloyed steels] Diffuzionnaia svarka v vakuume nekotorykh marok vysokolegirovannykh stalei. Leningrad, 1964. 18 p. (MIRA 18:3)

CHARUKHINA, Kira Yevgen'yevna, inzh.; KAZAKOV, Nikolay Fedotovich, doktor tekhn. nauk, prof.; POLISHCHUK, G.V., red.

[Diffusion bonding in a vacuum of diversified metals] Diffuzionnaia svarka v vakuume raznorodnykh metallov. Leningrad, 1964. 22 p. (MIRA 18:4)

ACCESSION NR: AP4042220 S/0135/64/000/007/0013/0015

AUTHOR: Krivoshey, A. V. (Engineer); Kazakov, N. F. (Doctor of technical sciences)

TITLE: Vacuum diffusion welding of some refractory metals

SOURCE: Svarochnoye proizvodstvo, no. 7, 1964, 13-15

TOPIC TAGS: welding, refractory metal welding, diffusion welding, vacuum diffusion welding, niobium welding, molybdenum welding, tungsten welding, niobium molybdenum weld, porous metal welding, dissimilar metal welding

ABSTRACT: The feasibility of vacuum diffusion welding of similar and dissimilar refractory metals, porous refractory metals, and metals with different expansion coefficients has been investigated. It was found that niobium can be successfully diffusion welded in vacuum at 1400C under a 1 kg/mm^2 pressure maintained for 5 min, but in molybdenum welded at 1600C with a 1 kg/mm^2 pressure lack of fusion was observed. With a molybdenum insert 50μ thick, a sound weld was obtained. Good quality welds in tungsten were obtained with the use of a molyb-

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ACCESSION NR: AP4042220

denum foil insert. Tungsten was successfully welded to molybdenum at 2000C under a 1 kg/mm2 pressure maintained for 10 min. In diffusion welding of metals with different expansion coefficients, e.g. niobium to 40 Kh steel, molybdenum to 45 steel, and molybdenum to 1Kh18N9T steel sound welds with good penetration were obtained at 1100C under a 1 kg/mm^2 pressure maintained for 20 min and without using an insert. Plates of zirconium 0.1 mm thick were welded to manganese-palladium alloy plates of the same thickness at 850C under a 1 kg/mm^2 pressure maintained for 30 min. No weld cracks were detected in spite of a great difference in the coefficient of linear expansion and the welding's being performed without benefit of an insert. Airtight welds were obtained between copper and molybdenum, tungsten, or rhenium. Good results were also achieved in the diffusion welding of porous niobium to dense molybdenum, performed at 1400C under a 0.5-kg/mm^2 pressure maintained for 10 min. The niobium porosity was not impaired. Similar results were obtained in welding porous tungsten or molybdenum to nickel. Orig. art. has: 7 figures.

ASSOCIATION: NILDSV Mosgorsovnarkhoz

2/3

Card

KHUDYSHEV, Anatoliy Fedorovich; KAZAKOV, N.F., red.

[Diffusion bonding in vacuum of parts and weldments of electric vacuum equipment] Diffuzionnaia svarka v vakuume detalei i uzlov elektrovakuumnykh priborov. Leningrad, 1965. 20 p. (MIRA 18:5)

L 26108-65 EWT(m)/EPF(n)-2/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) Pf-4/Pu-4
ACCESSION NR: AP4047426 UR/0136/64/000/010/0066/0067 S/0136/64/000/010/0066/0067

AUTHOR: Kazakov, N.F.; Krivoshey, A.V.; Sudenkov, Ye. G.; Sokolov, V.I.; Kasatkin, N.M.; Lyubenko, L.A.; Bodyako, A.V. 47 45 B

TITLE: Vacuum diffusion welding of bimetallic strips for thermostats

SOURCE: Tsvetnyy metally, no. 10, 1964, 66-67

TOPIC TAGS: diffusion welding, vacuum diffusion welding, thermostat, bimetal, manganese alloy, clad metal/ alloy 75GND

ABSTRACT: The authors used the vacuum diffusion welding method developed by Prof. N. F. Kazakov (Diffuzionnaya svarka v vakuume metallov, splavov i nemetallov. Izd. NIL DSVM M., 1962) to prepare samples of thermostat metals. The process consisted of four operations: 1. cold rolling of the component metals into strips of given thickness, 2. cutting to the given size; 3. mechanical cleaning and degreasing of the contact surfaces, and 4. vacuum diffusion welding of the passive and active components. The component plates were welded at the Nauchno-Issledovatel'skaya laboratoriya diffuzionnoy svarki (Scientific Research Laboratory of Diffusion Welding) of the Mosgorsovnarkhoz, using an SDVU-6 vacuum diffusion welder. The samples of thermostat metal obtained were tested for specific bending at the TsNIIChM (Central

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L 26108-65
ACCESSION NR: AP4047426

2

Scientific Research Institute of Ferrous Metallurgy). One of the tested compositions (the high-manganese alloy 75GND plus molybdenum) was found to meet the maximum sensitivity requirement (specific bending $A = 0.151)^{-1}$ (C). The experimental work performed showed that vacuum diffusion welding permits a substantial acceleration of the process of finding new brands of thermostat metals and an appreciable saving of labor and development costs. Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 001 OTHER: 000

Card 2/2

L 1645-66 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HM

ACCESSION NR: AP5021622 UR/0286/65/000/013/0102/0103
621.791.06

25
B

AUTHOR: Kazakov, N. F.; Krivoshey, A. V.; Sudenkov, Ye. G.
49,55 44,55 44,55

TITLE: Method for diffusion bonding of materials in gas atmosphere. Class 49, No. 172606
49,55, A

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 102-103

TOPIC TAGS: joining, bonding, material bonding, diffusion bonding

ABSTRACT: This Author Certificate introduces a method for diffusion bonding of materials in gas atmosphere. To increase productivity and improve bond quality, the bonding is carried out in an atmosphere which promotes the formation of the bond. For example, bonding of a metal to nitride is done in nitrogen, bonding a metal to carbide is done in hydrocarbon. [AZ]

ASSOCIATION: none

SUBMITTED: 05Mar63 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4095

Card 1/1 DP

L 14460-66 EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) JD/HM

ACC NR: AP6002967 (N) SOURCE CODE: UR/0286/65/000/024/0136/0136

INVENTOR: Kazakov, N. F.; Krivoshey, A. V.; Sudenkov, Ye. G.

ORG: none

TITLE: A method for vacuum diffusion welding of metals. Class 49, No. 177259

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 136

TOPIC TAGS: vacuum welding, diffusion welding

ABSTRACT: This Author's Certificate introduces a method for vacuum diffusion welding of metals. The components are individually preheated. Welding time is reduced by heating the components at different temperatures so that the metal is vaporized from the surface of the hotter component and the metal vapor is condensed on the surface of the cooler component.

SUB CODE: 13 SUBM DATE: 07Apr64

Card 1/1 UDC: 621.791.66-982

L 00538-67 EWT(m)/EWP(w)/EWP(v)/EWP(t)/ETI/EWP(k) IJP(c) JD/HW/RM
ACC NR: AP6034765 SOURCE CODE: UR/0407/66/000/001/0062/0066

AUTHOR: Kazakov, N. F. (Nikolayev); Kvasnitskiy, V. F.; Safonov, A. I.; Yermolayev, G. V.

ORG: none

TITLE: Vacuum-diffusion bonding of the surfaces of EI602 nickel-base heat-resistant alloy

SOURCE: Elektronnaya obrabotka materialov, no. 1, 1966, 62-66

TOPIC TAGS: nickel base alloy, high temperature alloy, diffusion welding, alloy diffusion welding, alloy vacuum welding, vacuum welding technology/EI602 alloy

ABSTRACT: Experiments have been made to determine the optimum conditions for vacuum diffusion bonding of the surfaces of EI602 nickel-base heat-resistant alloy. The bonding was done at 1373, 1423, 1448 and 1473K under a specific pressure of 1.0, 1.5, 2.0, 2.5, 3.0 and 3.5 kg/mm^2. The machined specimens were annealed in a vacuum of 10^{-4} tor. ($1.3 \cdot 10^{-2}$ n/m^2) at the bonding temperature for 3 min, pressed and held together for 6 min under a given pressure and then air cooled. The best results were obtained at bonding temperatures of 1423—1448K under a specific pressure of 2.5—3.0 kg/mm^2, a holding time of 6 min, and a vacuum of not less than 10^{-4} tor. The better the faying surface finish and the shorter the time between their machining and bonding, the higher was the bond strength. The bonds made under optimum conditio

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L 08538-67

ACC NR: AP6034765

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had a tensile strength of 72.0—76.2 kg/mm^2 and an elongation of 37.3—45.6% at room temperature; the corresponding figures at 1073K were 35 kg/mm^2 and 27%. All these indices corresponded or were close to those for the base metal. Diffusion bonding with intermediate nonmelting nickel inserts 0.1 mm thick was done at 1423K with a holding time of 6 min. The tensile strength of these bonds was 80% of the strength of the base metal at room temperature and 100% at 1073K. Annealing for 8 hr at the normal operating temperature of EI602 alloy (800C) did not affect the tensile strength and ductility of the joints. But the stress-rupture strength was appreciably lower than that of the joints without inserts. The mechanical properties of the joints with nickel inserts can be increased by decreasing the insert thickness. Thin melting foil and electrolytically or vacuum-evaporated intermediate films can be used to ensure satisfactory contact in low-pressure (about 1.0 kg/mm^2) diffusion bonding of thin-sheet structures. Orig. art. has: 6 figures.

SUB CODE: 11/ 13/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 5103

Card 2/2 egh

ACC NR: AP7001206 (N) SOURCE CODE: UR/0407/65/000/05-/0154/0159

AUTHOR: Kazakov, N. F. (Moscow); Nichushkin, V. V. (Moscow)

ORG: none

TITLE: Determination of the conditions of vacuum-diffusion bonding of VT1-1 titanium

SOURCE: Elektronnaya obrabotka materialov, no. 5-6, 1965, 154-159

TOPIC TAGS: titanium, vacuum diffusion , titanium diffusion bonding, diffusion bonding condition, bonded joint strength/VT1 titanium

ABSTRACT: Specimens of VT1-1 commercial-grade titanium were diffusion bonded in a vacuum of 10^{-1}—10^{-4} tor at a temperature of 650—1000C under a specific pressure of 0.1—1.5 kg/mm^2 with a holding time of 1—25 min and cooled to 100—400C in vacuum. The results of tension tests showed that the joints bonded in a vacuum of 10^{-3} tor in the 750—950C range under a specific pressure of 0.2—0.85 kg/mm^2 have a tensile strength of 55—57 kg/mm^2, equal to that of the base metal annealed at the respective bonding temperature. The maximum tensile strength (60 kg/mm^2) was achieved with bonding in a vacuum of 10^{-3} tor at 800C under a specific pressure of 0.7 kg/mm^2, a holding time of 8—10 min, and cooling to 200C in vacuum. The strength of the joint is determined mainly by the specific pressure and temperature of the bonding process. Generally, the specific pressure is 60—70% of the yield strength at the

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ACC NR: AP7001206

bonding temperature. The diffusion-bonded VT1-1 parts tested to destruction failed in the base metal. Orig. art. has: 8 figures. [MS]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 005/ ATD PRESS: 5110

Card 2/2

ACC NR: AP7006686 (A) SOURCE CODE: UR/0145/66/000/010/0178/0180

AUTHOR: Kazakov, N. F. (Professor)

ORG: None

TITLE: Fourth Intercollegiate Scientific and Technical Conference on Vacuum Diffusion Welding of Metallic and Nonmetallic Materials held in Moscow, 27-31 May 1966

SOURCE: IVUZ. Mashinostroyeniye, no. 10, 1966, 178-180

TOPIC TAGS: vacuum welding, diffusion welding, METALLURGIC scientific conference

ABSTRACT: The Fourth All-Union Scientific and Technical Conference on Vacuum Diffusion Welding of Metals, Alloys and Nonmetallic Materials held in Moscow 27-31 May 1966 was attended by 600 representatives of institutes and special design offices from 47 cities, 18 ministries and 160 enterprises and organizations. The conference opened with a report by Doctor of technical sciences, Professor N. F. Kazakov titled "Diffusion Welding of Metallic and Nonmetallic Materials, Application in Industry and Prospects for Development". The advantages of vacuum diffusion welding over conventional methods are discussed and it is pointed out that the new method may be used for welding materials which cannot be joined in any other way, e. g. steel with cast iron, aluminum, tungsten, titanium, cermet and molybdenum; copper with aluminum and titanium; gold with bronze; platinum with titanium; silver with stainless steel; bronze with

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ACC NR: AP7006686

various metals; ceramics with Kovar, copper and titanium; glass with metals, etc. More than 200 industrial enterprises, design offices and scientific organizations in the Soviet Union are presently making successful use of this welding method. More than 200 experimental and industrial vacuum diffusion welders are presently in operation. A report was given at the conference by Candidate of technical sciences V. S. Savchenko on the plan for production of diffusion welders for 1966/70. Various reports were also given on the use of diffusion welding in the vacuum tube industry, gear cutting, production of turbine blades, making electrical contacts from precious metals and alloys, etc. Other reports were given on the use of diffusion welding for joining nonmetallic materials and metals with nonmetals, the state of the art and prospects for development of diffusion welders, development of specialized diffusion welding installations and methods of nondestructive quality control. The names of the authors are listed. Seventy-six reports in all were given. The delegates to the conference visited the "Kalibr" Plants of the Ostankinsk Meat Processing Combine and the Scientific Research Laboratory of Problems in Vacuum Diffusion Welding where the method was demonstrated with application to components made of various metals, alloys and nonmetals.

SUB CODE: 13/ SUBM DATE: 30Jul66

Card 2/2

KAZAKOV, Nikolay Fedotovich, doktor tekhn. nauk, prof.; KRAPUKHIN, V.V., red.

[Diffusion bonding in vacuum of metallic and nonmetallic materials] Diffuzionnaia svarka v vakuume metallicheskikh i nemetallicheskikh materialov. Leningrad, 1965. 31 p. (MIRA 18:7)

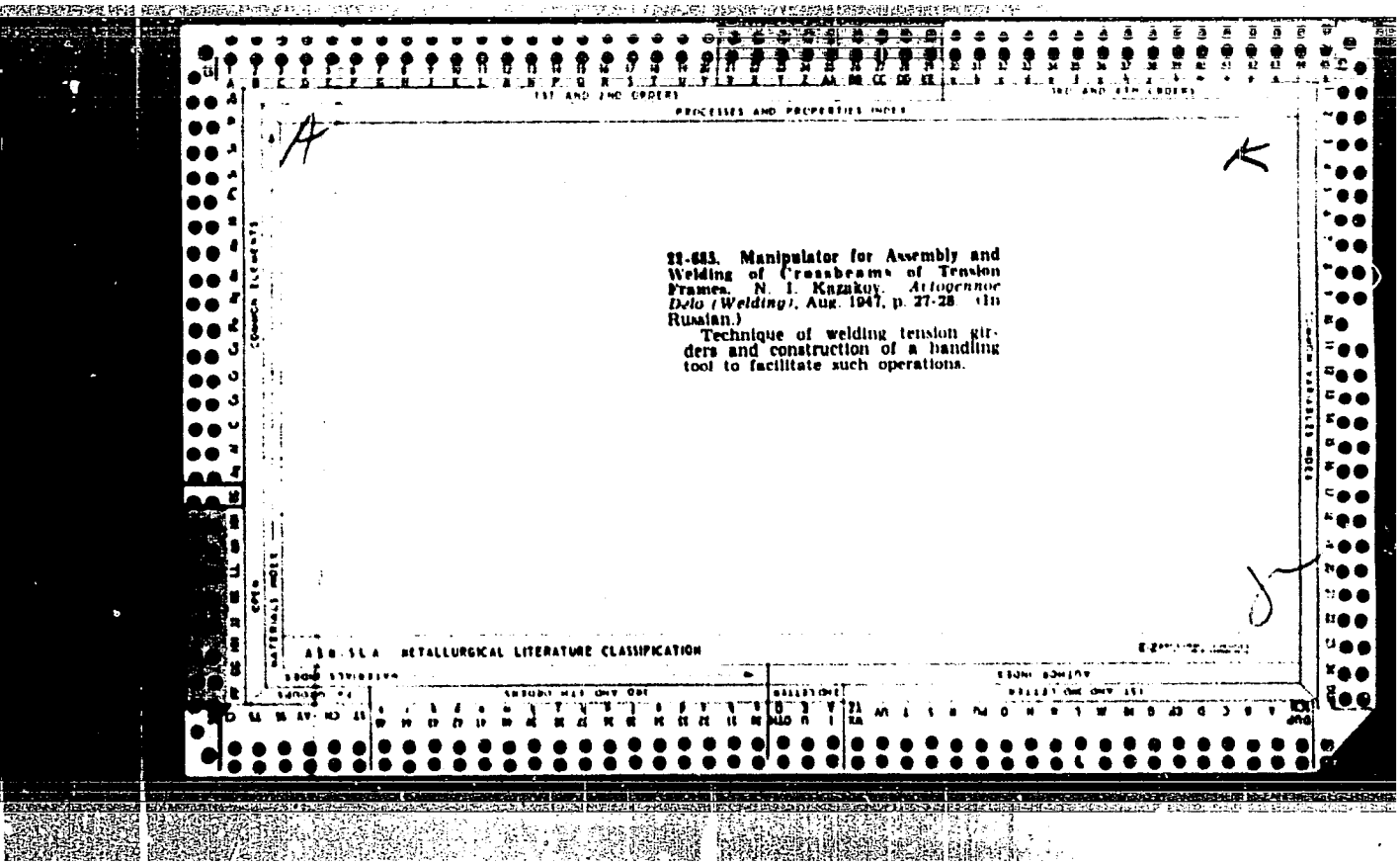
KAZAKOV, N.G., kandidat tekhnicheskikh nauk.

The most important problems in machine building; a congerence on over-all mechanization and automation in machine building. Vest.AN SSSR 26 no.12:104-107 D '56. (MLRA 10:1)
(Machinery industry)

BOGOMOLOV, V.D. [Bohomolov, V.D.]; KAZAKOV, N.I.; LINOV, G.Ye. [Linov, H.E.]; FADEYEV, I.F. [Fadieiev, I.F.]; VOINOV, I.P.; ZVYAGIN, S.D. [Zv'iahin, S.D.]; CHUDNOVSKIY, P.I. [Chudnovs'kyi, P.I.]; ROMANCHENKO, V.M.

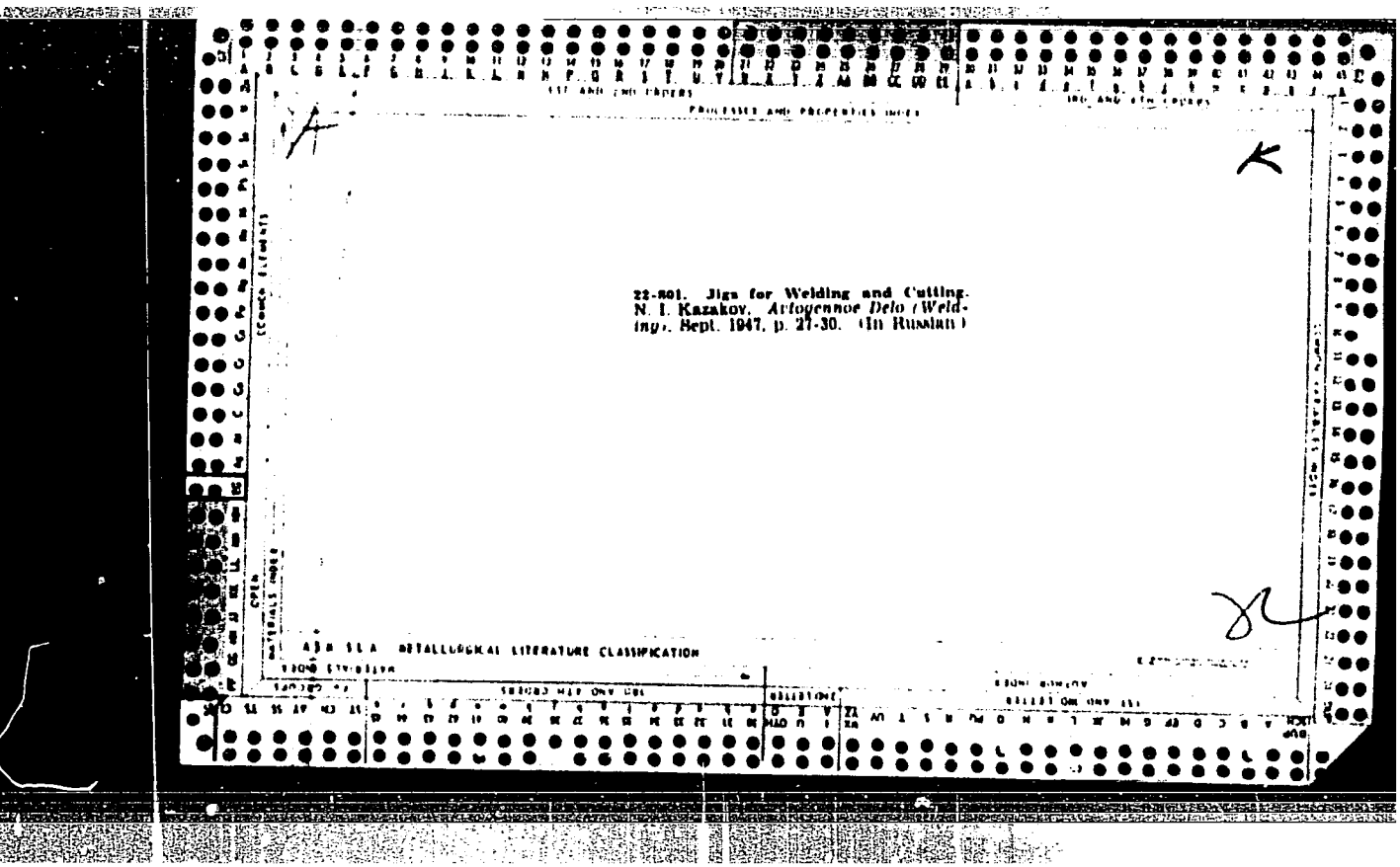
In the economic councils of the Ukraine. . h.prom. no.3:84-87 Jl-S '63. (MIRA 16:11)

1. TSentral'noye byuro tekhnicheskoy informatsii Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Bogomolov, Kazakov, Linov, Fadeyev).



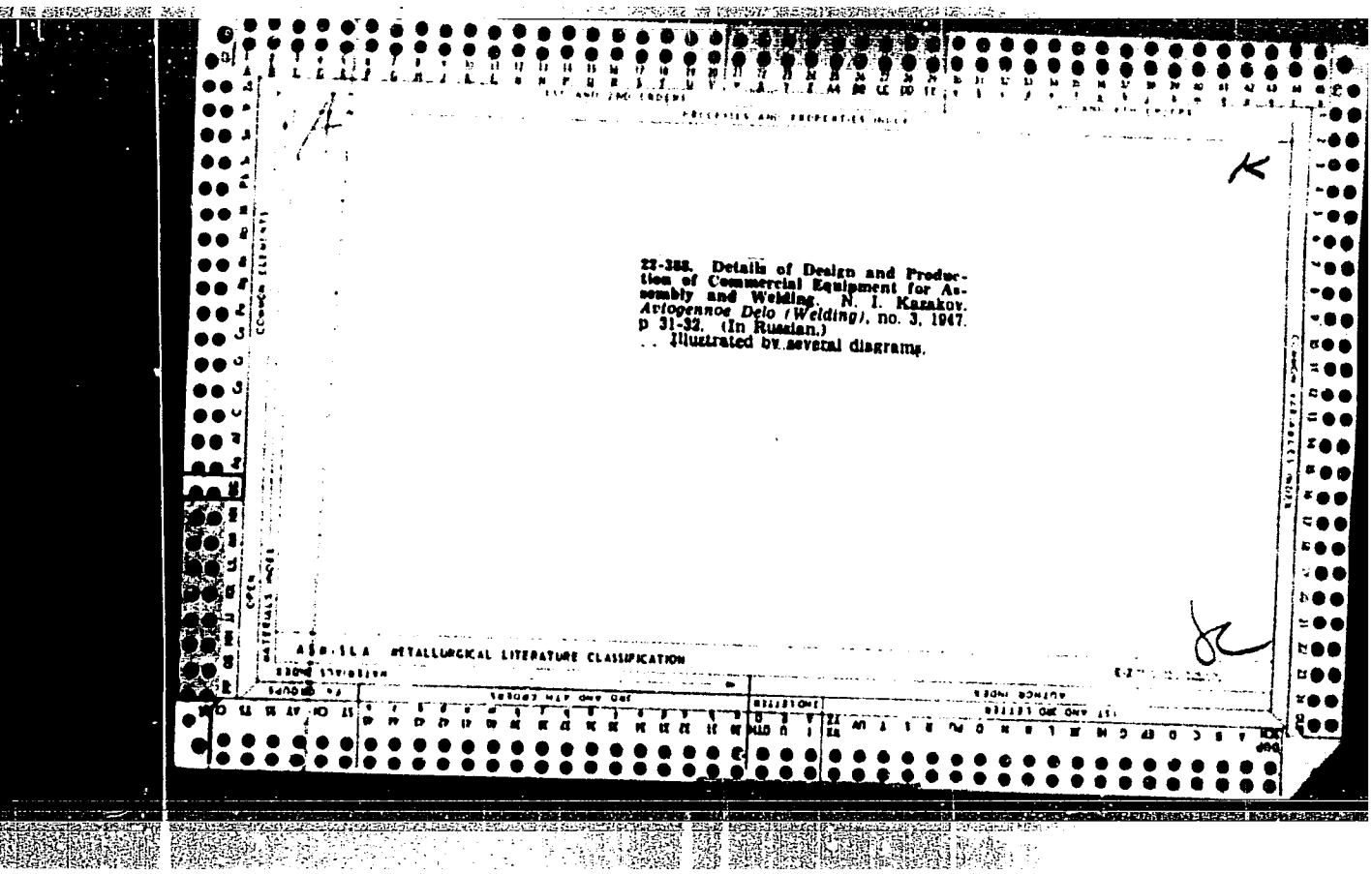
22-683. Manipulator for Assembly and Welding of Crossbeams of Tension Frames. N. I. Kazakov. *Avtogennoe Delo (Welding)*, Aug. 1947, p. 27-28. (In Russian.)

Technique of welding tension girders and construction of a handling tool to facilitate such operations.



22-801. Jigs for Welding and Cutting. N. I. Kazakov. *Avtogennoe Delo* (*Welding*). Sept. 1947. p. 27-30. (In Russian)

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION



22-388. Details of Design and Production of Commercial Equipment for Assembly and Welding. N. I. Kazakov. *Avtogennoe Delo (Welding)*, no. 3, 1947. p 31-32. (In Russian.)
Illustrated by several diagrams.

KAZAKOV, N.I., inzhener.

Use of compressed air in assembly and welding attachments. Vest. mash. 27 no.3:68-72 '47.
(Pneumatic tools) (MLRA 9:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721310006-1

STAND FOR THE ASSEMBLY AND WELDING OF THE SIDE FRAME-WORK OF A RAILWAY WAGON. N.I. Kazakov. (Avtogennoe Delo, 1948, No. 2, pp. 23-25). (In Russian). The procedure for the assembly and welding of the sides of railway wagons and a special stand for holding the sides which measure approximately 2700 x 1?,600 x 100 mm. are described.

Immedi[illegible] source clipping

KAZAKOV, N. I. FA12/49T30

USSR/Engineering Jul 48
Welding - Equipment
Welding - Apparatus

"Welding Assembly Equipment," N. I. Kazakov, Engr, 2½ pp

"Avtogennoye Delo" No 7

Describes various templates, adjustable stands, etc.

[redacted] 12/49T30

KAZAKOV, N.I.

30310

normalizatsiya ilyemyentov sborochno svarochnoy osnastki, Avtogyen. dyelo, 1949 No 10, s. 26

SOP LETOPIS' No. 34

KAZAKOV, N.I., inzhener.

Turning units used in forage harvesting. Sel'khozmashina no.3: 17-18 Mr '56. (MIRA 9:7)
(Agricultural machinery) (Hay--Harvesting)

KAZAKOV, N.I., inzhener.

The number of cutter bars in one mower. Sel'khozmashina no.12: 12-17 D '56. (MLRA 10:2)

(Mowing machines)

GRUM-GRZHIMAYLO, Sergey Vladimirovich; KAZAKOV, N.I., inzh., retsenzent; VASIL'YEV, S.A., inzh., red.; SOKOLOVA, T.F., tekhn.red.

[Analysis and principles of design of transmission elements] Raschet i osnovy konstruirovaniia elementov privodov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 335 p. (Gearing) (MIRA 12:2)

KAZANOV, N. I.

11(2,7) PHASE I BOOK EXPLOITATION SOV/2416

Gazosnabzheniye vostochnykh rayonov SSSR na osnove gazifikatsii tverdykh topliv (Supplying the Eastern Regions of the USSR With Gas Produced by Solid Fuel Gasification) Moscow, Gostoptekhizdat, 1959. 214 p. 2,000 copies printed.

Ed.: N.V. Shishakov, Doctor of Technical Sciences; Executive Ed.: T. D. Yefremova; Tech. Ed.: A.V. Trofimov.

PURPOSE: This collection of articles is intended for designing, planning, and scientific research personnel, as well as for engineers, technicians, and students specializing in solid fuel gasification.

COVERAGE: This collection of articles describes the problem of supplying the eastern regions of the USSR with synthetic gas derived from the gasification of solid fuels to overcome that area's lack of natural gas. Individual articles discuss the distribution of the region's coal deposits, the quality and types of coal encountered, gasification process, and the economics involved in the production and supply of the synthetic gas product. The author thanks V.S. Al'tshuler, Doctor of Technical Sciences. References accompany each article.

AVAILABLE: Library of Congress (TP735.N92537)

KAZAKOV, N.I.

10(4)

SOV/98-59-7-21/22

AUTHOR: Rozinoer, S.Y., Chairman

TITLE: Conference on Scientific Research in the Field of Hydromechanics

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 7, pp 62-65 (USSR)

Card 4/6

V.V. Dlovgiy, Candidate of Technical Sciences (VNIIGS) and Engineer M.I. Khrustalev Ferro-Concrete (VNII): "The Hydraulic Fractionation of Natural Sand in the Preparation of Concrete." At the session on equipment the following papers were read: Engineer B.M. Shkundin (Gidroproyekt): "Special-purpose Earth Detonators"; Engineer, I.A. Moroz (Planning and Design Office of the Hydromechanization Trust of the Ministry of the RSFSR): "New Designs of Bucket-Rotor Types of Disintegration Equipment"; L.D. Borisenko, Candidate of Technical Sciences (IGD of the Academy of Sciences of the USSR), Engineer N. I. Kazakov (The Lead-Mining Trust), and M.Ya. Zhurzha, Candidate of Technical Sciences (DONUGI): "The Design of Feeders for the Loading of Heavy Materials into Pressurized Water Conduits"; The session on transport contained papers read by the following: I.V. Yegiazarov, member of the Academy of Sciences of the Armenian SSR: "The Movement of Alluvia and Related Problems"; Prof. M.A. Dementyev, Doctor of Technical Sciences (VNIIG imeni B.Ye.Vedeneyev), A.K. Ananyan, and R.G. Samoyan, Candidate of Technical Sciences (the Institute of Energetics of the Academy of Sciences of the Armenian SSR): "The Kinematics of Turbulent Streams"; Prof. F. I. Frankl', Doctor of Technical Sciences (Kabardino-Balkar State University): "A Method for Settling the Movement of Alluvia"; M.A.

Card 5/6

Velikanov, corresponding member of the Academy of Sciences of the USSR: "The Theoretical and Practical Value of the Gravitational Theory of Alluvia"; N.A. Silin, Candidate of Technical Sciences: "Loss of Pressure and Hydraulic Resistance in Large-Diameter Tubes"; A.K. Klimentov, Candidate of Technical Sciences (VNIITS), N.P. Zrelov (VODGEO), and S.A. Korzhayev (IGD of Academy of Sciences of the USSR): "Experiments in Water Supply in Conduit Tubes of Various Diameters"; V.S. Knoroz, Candidate of Technical Sciences: "Resistance in Rough Open Riverbeds."

ASSOCIATION: (Conference Organizing Committee) Orgkomitet po provedeniyu soveshchaniya

S/148/61/000/011/001/018
E071/E180

AUTHORS: Kazakov, N.I., and Filippov, S.I.

TITLE: Kinetics of oxidation of carbon in liquid steel under conditions of electromagnetic stirring

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.11, 1961, 15-21

TEXT: The influence of magnetic stirring on the kinetics of oxidation of carbon was investigated on a laboratory apparatus. In preliminary experiments, using mercury as a liquid metal, the most suitable position of a stator (from a two-pole motor) and the necessary voltage to obtain an energetic rotation of the metal in a small crucible were established. Carbon dioxide was chosen as an oxidising gas. Heats were treated at CO_2 flow rates of 75, 125, 200 and 325 ml/min. As a starting material soft iron and pig iron smelted from electrolytic iron were used. [Abstractor's note: Electrolytic iron contains no carbon; how can it give pig iron?] The weight of a charge was 300-350 g (the diameter of the magnesite crucible - 31 mm). A nozzle of 3 mm diameter was 30 mm above the surface of the metal in all heats; the position

of the metal in respect to the stator and heater was also constant. Altogether 28 experiments were carried out with and without stirring the metal, at temperatures of 1540-1570 °C. In some heats the metal was stirred in both directions. Kinetic curves of decarburisation were obtained for each series of heats with a given rate of supply of the oxidising gas. In the range of higher carbon concentrations (up to about 0.2%) the experimental points obtained with and without stirring fell on the same straight line. The experimental results agreed well with the kinetic equation for the decarburisation of metal at carbon contents above the critical concentration:

$$-\frac{d[C]}{d\tau} = \frac{1}{V_M} \cdot \eta \cdot W \cdot P_{O_2} \qquad (1)$$

The rate of oxidation of carbon $\left(-\frac{d[C]}{d\tau}\ \text{mole/cm}^3\ \text{min}\right)$ is determined by the rate of blowing the oxidising atmosphere (W cm^3/min), the content of oxidant (P_{O_2}, mole/cm^3) and the volume of the metallic bath (V, cm^3). The coefficient expressing the

utilisation of the oxidant η reflects the flow characteristics of the oxidant stream and the surface conditions of the metal. In the range of carbon concentrations above the critical, the rate of decarburisation is independent of stirring, and the limiting factor is the transfer of oxidant from the stream to the reaction zone. At carbon concentrations below the critical, the limiting factor is the transfer of carbon to the reacting surface and the experimental results conform to an equation:

$$-\frac{d[C]}{d\tau} = \gamma_c \cdot S/V_M \cdot [C], \quad (2)$$

$$\gamma_c = -2.303 V_M/S \cdot \frac{\Delta \log [C]}{\Delta \tau} \quad (3)$$

The rate of decarburisation depends on the reacting surface of the metal (S, cm^2), its volume (V_M, cm^3) and is directly related to the concentration of carbon [C], $mole/cm^3$. The effect of stirring can be evaluated from the ratio K of the diffusion coefficients of carbon in liquid metal, with (γ_c') and without (γ_c)

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stirring, corrected for the change in the surface area of the bath S/S':

$$K = \gamma_c'/\gamma_c \qquad (4)$$

The influence of electromagnetic stirring can be presented by a general equation expressing the dependence of K on the voltage applied to the stator (U):

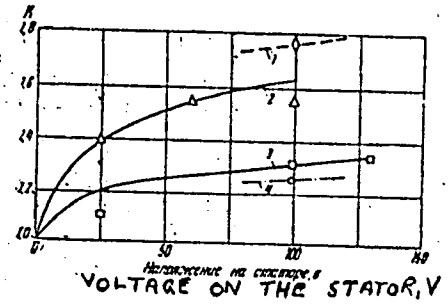
$$K = A \cdot U^n + B \qquad (5)$$

where A and B are coefficients, n is the power index. Under experimental conditions $n < 0.5$. According to experimental data (Fig.6) the influence of stirring depends on the applied voltage and the rate of supplying oxidant to the metal. Electromagnetic stirring can also speed up other refining processes providing the concentration of an admixture is below the critical one. I.M. Kirko is mentioned in the paper in connection with his contributions in this field.
There are 6 figures and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. The English language reference reads as follows:
Ref.1: S. Fornander, F. Nilsson. J. of Metals, v.188, no.1-2, 1950.
Card 4/5

Kinetics of oxidation of carbon ... S/148/61/000/011/001/018
E071/E180

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute).
SUBMITTED: June 15, 1961.

Fig.6 The influence of stirring on the decarburisation of metal at carbon concentrations below critical. Rate of supply of CO_2: 1 - 75 mℓ/min; 2 - 125; 3 - 200; 4 - 325 mℓ/min.



Card 5/5

KAZAKOV, N.I., tekhnik; AMURSKIY, B.S., inzh.; KOVALENKO, N. Ye., inzh.
SADOVOY, M.G., inzh.

Using metal falsework and a concrete placer in the lining of galleries.
Shakht. stroi. 5 no.6:24-26 Je '61. (MIRA 14:6)

1. Leninogorskoye shakhtostroyupravleniye.
(Mine timbering)

AMURSKIY, B.S., inzh., KAZAKOV, N.I., inzh.; KOVALENKO, N.Ye., inzh.; SADOVOY, M.G., inzh.

The LPBU-2 pneumatic concrete placer for mines. Mekh. stroi. 19 no.5:24-25 My '62. (MIRA 15:5)
(Concrete construction)
(Tunnel lining)

KAZAKOV, N.I., tekhnik; AMURSKIY, B.S.,inzh.; KOVALENKO, N.Ye., inzh; SADOVOY, M.G.,inzh.

Drilling rig with automatic devices for bore hole sinking. Shakht.stroi. 6 no.2:12-16 F '62. (MIRA 15:2)

1. Leninogorskoy shakhtostroyupravleniye.
(Rock drills)

KAZAKOV, N.I., tekhnik

Fastening cables in mine shafts. Shakht. stroi. 6 no.5:27-28 My '62. (MIRA 15:7)

1. Leninogorskoye shakhtostroyupravleniye.
(Electric cables) (Electricity in mining)

KAZAKOV, N.I., gornyy tekhnik; AMURSKIY, B.S., gornyy inzh.; KOVALENKO, N.Ye., gornyy inzh.; SADOVOY, M.G., gornyy inzh.

Support and drill steel holder for core drills. Gor.zhur. no.8:67-68 Ag '62. (MIRA 15:8)

1. Leninogorskoye shakhtostroyupravleniye.
(Core drilling--Equipment and supplies)

KAZAKOV, N.I., gornyy tekhnik; YUNOVICH, M.I., gornyy inzh.; KUDRYAVTSEV, Yu.I., gornyy inzh.; SMOLDYREV, A.Ye., kand.tekhn.nauk; MARKOV, Yu.A., gornyy inzh.; KURBATOV, A.K., gornyy inzh.

Study of the operation of a hydraulic hoist in the "Belkina-Ventilyatsionnaya" Mine. Gor. zhur. no.6:43-47 Je '62. (MIRA 15:11)

1. Leninogorskoye shakhtostroyupravleniye (for Kazakov).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy metallurgii, Ust'-Kamenogorsk (for Yunovich, Kudryavtsev).
3. Institut gornogo dela im. Skochinskogo, Moskva (for Smoldyrev, Markov, Kurbatov).

(Leninogorsk region (East Kazakhstan Province)--Mine hoisting)

KAZAKOV, N.I., elektromekhanik

Remote control of an electric drive using one line. Energetik 10 no.6:24-25 Je '62. (MIRA 16:3)
(Remote control) (Electric motors)

KAZAKOV, N.I., tekhnik; KOVALENKO, N.Ye., inzh.

New supporting drill-steel holder for core drills. Shakht. stroi. 7 no.1:22-23 Ja '63. (MIRA 16:2)

1. Leninogorskoye shakhtostroyupravleniye.
(Boring machinery--Equipment and supplies)

KAZAKOV, N.I., tekhnik

Remote control of an electric motor using one line. Shakht.stroi. 7 no.5:25-26 My '63. (MIRA 17:4)

1. Leninogorskoye shakhtostroitel'noye upravleniye, Vostochno-Kazakhstanskiy sovet narodnogo khozyaystva.

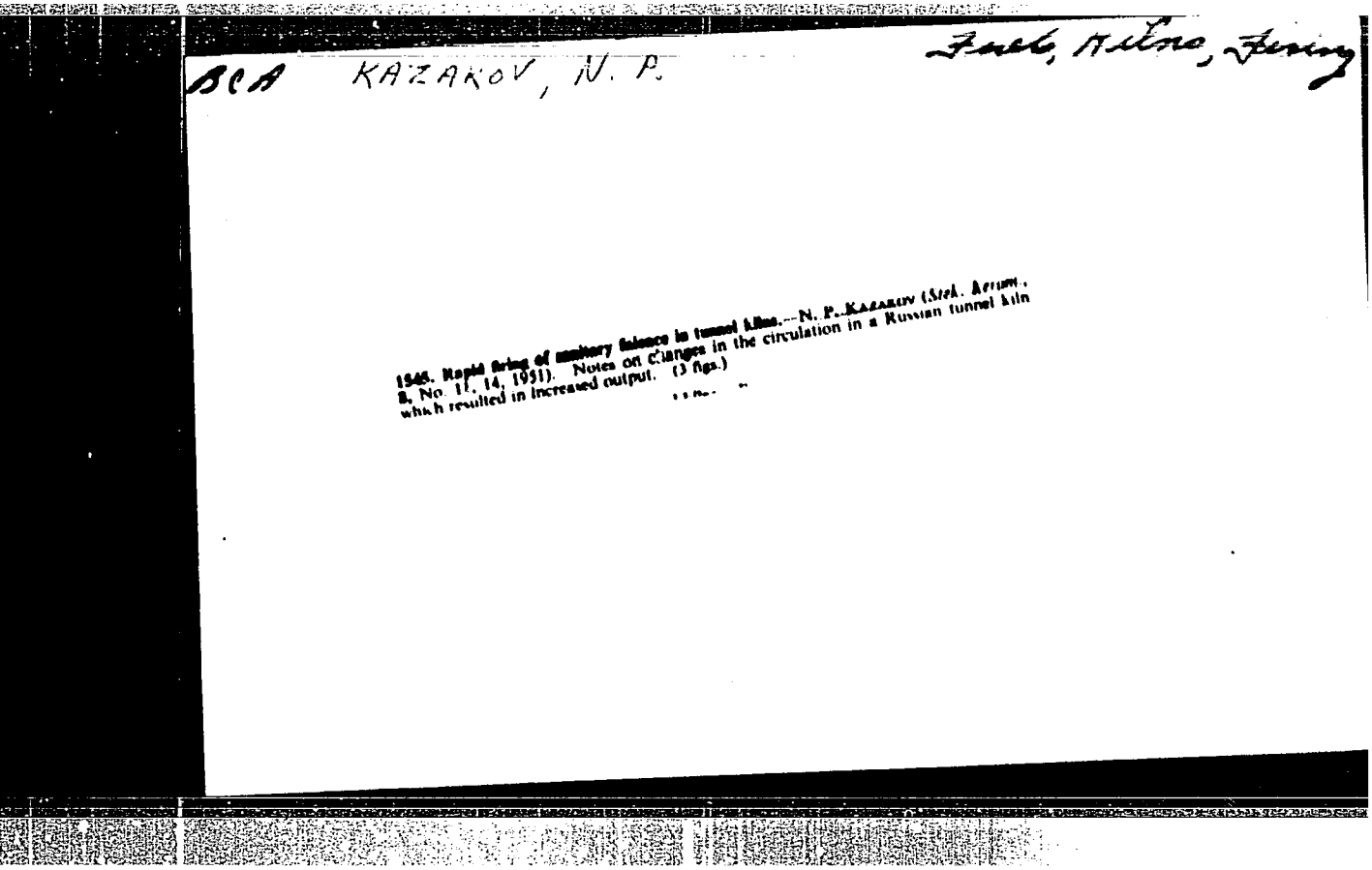
1. KAZAKOV, N. P.; BORISOV, N. P.

2. USSR (600)

4. Ceramic industries

7. Perfecting the technology of faience sanitary products. Stek. i ker. 9, no. 9, 1952

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



BCA KAZAKOV, N. P.

Fuels, Kilns, Firing

1545. Rapid firing of sanitary faience in tunnel kilns.—N. P. Kazakov (Stek. Keram., 8, No. 12, 14, 1951). Notes on changes in the circulation in a Russian tunnel kiln which resulted in increased output. (3 figs.)

MACHINES

CHUDAKOV, Ye.A., akademik, glavnyy redaktor; AKOPOV, S.A., redaktor; ARTOBOLEVSKIY, I.I., redaktor; ACHERKAN, N.S., redaktor; BEZPROZVANNYY, I.M., redaktor; GUDTSOV, N.T., redaktor; DIKUSHIN, V.I., redaktor; YEFREMOV, A.I., redaktor; ZAPOROZHETS, V.K., redaktor; ZIMIN, A.I., redaktor; KAZAKOV, N.S., redaktor; KIRPICHEV, M.V., redaktor; KOVAN, V.M., redaktor; KONYUSHAYA, Yu.P., redaktor; LIPGART, A.A., redaktor; MALYSHEV, V.A., redaktor; MARTENS, L.K., redaktor; MARIYENBAKH, L.M., redaktor; NIKOLAYEV, G.A., redaktor; ODING, I.A., redaktor; PATON, Ye.O., redaktor; RAMZIN, L.K., redaktor; RUBTSOV, N.N., redaktor; SAVERIN, M.A., redaktor; SEMENCHENKO, I.I., redaktor; SERENSEN, S.V., redaktor; SHAMNI, N.A., redaktor; SHELEST, A.N., redaktor; SHUKHGAL'TER, L.Ya., zamestitel' glavnogo redaktora, redaktor; YAKOVLEV, A.S., redaktor.

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(Mechanical engineering)
(MLRA 8:1)

1. KAZAKOV, M. S.

2. USSR (600)

4. Machinery in Industry

7. New technical processes in the service of communist construction. Mekh. trud. rab. 6 no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

ROZHKOV, G.I., KAZAKOV, N.Sh.

Rozhkov, G.I., Kazakov, N.Sh., "The Factors of Locality in Infectious Equine Anemia". (Veterinariya, No. 2-3, 1944)
SO: Proceedings of the All-Union Instituteof Experimental Veterinary Medicine, Vol. 19, No 2, 1952

KAZAKOV, N.Ye.

At the Ordzhonokidze Plant Staro-Kramatorsk. Izobr. v SSSR 1 no.4:38-39 O '56. (MLRA 10:3)
(Kramatorsk--Machinery industry)

ADRIANOV, P.K.; ANDRIANOV, S.M.; BEREZIKOV, B.S.; GOLOVKO, V.G. [Holovko, V.H.]; DOBROVOL'SKIY, A.V. [Dobrovol's'kyi, A.V.]; DOVGAL', M.F. [Dovhal', M.F.]; YELIZAROV, V.D. [Elizarov, V.D.]; ZHIZDRINSKIY, V.M. [Zhyzdryns'kyi, V.M.]; ZVENIGORODSKIY, O.M. [Zvenigorods'kyi, O.M.]; ZAYCHENKO, R.M. [Zaichenko, R.M.]; IVANENKO, Ye.I. [Ivanenko, Ie.I.]; KOMAR, A.M.; KOS'YANOV, O.M.; KAZAKOV, O.I.; KOSENKO, S.K.; KLIMENKO, T.A.; KIR'YAKOV, O.P.; KALISHUK, O.L.; LELICHENKO, M.T.; LEBEDICH, M.V.; MIKHAYLOV, V.O. [Mykhailov, V.O.]; MOROZ, I.I.; MOSHCHIL', V.Yu. [Moshchil', V.IU.]; NEPOROZHNIY, P.S. [Neporozhnii, P.S.]; NEZDATNIY, S.M. [Nezdatnyi, S.M.]; NOVIKOV, V.I.; POLEVOI, S.K. [Polevoi, S.K.]; PEREKHREST, M.S.; PUZIK, O.Ye. [Puzik, O.E.]; RADIN, K.S.; SLIVINSKIY, O.I. [Slivins'kyi, O.I.]; STANISLAVSKIY, A.I. [Stanislavs'kyi, A.I.]; USPENSKIY, V.P. [Uspens'kyi, V.P.]; KHORKHOT, O.Ya.; KHILYUK, F.P.; TSAPENKO, M.P.; SHVETS, V.I.; MAL'CHEVSKIY, V. [Mal'chevs'kyi, V.], red.; ZELENKOVA, Ye. [Zelenkova, E.], tekhn.red.

[The Ukraine builds] Ukraina buduie. Kyiv, Derzh.vyd-vo lit-ry z budivnytstva i arkhit., 1957. 221 p. (MIRA 11:5)
(Ukraine--Construction industry)

KAZAKOV, P.

6430/19

Author: P. Kazakov

Title: "On the Question of Danube Fisheries"

Source: Sofia, Ribno Stopanstvo, No 5, 19cl, pp. 13-16

Description: Article covers in detail the importance of Danube fishing as the second largest source of Bulgarian fish supply, describes the conditions and problems encountered, calls for measures to improve results, describes the different types of fishing, ~~xxxxxxxxxx~~ and organizational measures to be taken to improve ~~xxxxxx~~ "outer" fishing and "inner" fishing (in canals, swamps, and bays). /in toto/

KAZAKOV, P. (g.Khot'kovo, Moskovskoy oblasti)

In our plant in Khot'kovo. Izobr.i rats. no.1:7 Ja '60.
(MIRA 13:4)
(Khot'kovo--Electric industries--Technological innovations)

VIKHMAN, A.; SAVEL'YEV, V. (Arkhangel'sk); DEGTYAREV, N.; RYABENKOV, Ya.; BOBROVSKAYA, Z.; KULAGIN, N.; GROMADCHENKO, A. (g. Shakhty); MUN'KO, B. (g.Zaporozh'ye); STROGANOV, B. (Kaliningrad); KAZAKOV, P.; MAKAROV, L. (Dnepropetrovsk); ABRAMOVA, V. (Grodno); MOTCHENKO, V. (Kiyev); KRASNOV, A. (g. Al'met'yevsk); KAPLAN, Ya.; KASATKIN, I. (Yaroslavl').

Letters to the editors. Sov.profsoiuzy 16 no.4:44-49 F '60.
(MIRA 13:3)

1. Chlen zavkoma, predsedatel' komissii okhrany truda moskovskogo zavoda "Elektrosvet" imeni P.N. Yablochkova (for Vikhman). 2. Glavnyy inzhner Kuchurganskogo cherepichno-kirpichnogo zavoda, selo Sokhal'-skoye, Rozdel'nyanskogo rayona, Odesskoy oblasti (for Degtyarev). 3. Dorozhnyy komitet professional'nogo soyuza rabotnikov zheleznodorozhnogo transporta, Sverdlovsk (for Bobrovskaya, Kulagin). 4. Novotrubnyy zavod, g. Pervoural'sk (for Kazakov). 5. Predsedatel' postroyechnogo komiteta 5-go stroyrayona tresta "Al'met'yevneftestroy" (for Krasnov). 6. Predsedatel' ob"yedinennogo postroykoma tresta "Khabarovskstroy" (for Kaplan). 7. Predsedatel' tsekhovogo komiteta otdela glavnogo tekhnologa Yaroslavskogo motornogo zavoda (for Kasatkin).

(Efficiency, Industrial) (Trade Unions)

KAZAKOV, P.

Introduce "Escapon" (Ponomarev's synthetic rubber) in industry.
NTO 4 no.12:40-43 D '62. (MIRA 16:1)
(Rubber, Synthetic)

KAZAKOV, P.; KHRESTIN, N.

Gold below the slope. NTO 5 no.11:38-40 N '63. (MIRA 16:12)

1. Spetsial'nyye korrespondenty zhurnala "Nauchno-tekhnicheskiye obshchestva SSSR".

KAZAKOV, P.G.

Device for punching holes in stone walls. Rats. i izobr. predl. v stroi. no.56:7-9 '53. (Boring machinery) (MLRA 9:7)

KAZAKOV, Petar, ing. (Banja Luka)

Production of laminates and plywood. Kem ind 10 no.12:477-485 D '61.

1. Institut za hemijsku preradu drveta, Banja Luka.

KAZAKOV, Petr Gordeyevich; MOLCHANOV, M.P., red.; MAKHOVA, N.N., tekhn.red.

[Parallel projections and methods for solving construction problems; teachers' manual] Parallel'nye proektsii i metody resheniia konstruktivnykh zadach; posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 114 p. (MIRA 14:2)

(Geometrical drawing)

KAZAKOV, P. N.

CA 18

Replacing aluminum sulfate and the potassium alums with chromal. P. N. Kazakov. *L'no-Pen'ko-Dzhut. Prom.* 1939, No. 6, 19-20; *Khim. Referat. Zhur.* 1939, No. 10, 118.—The inexpensive product chromal (a waste product of $Na_2Cr_2O_7$ production from Cr ore) is recommended for the production of $Al(AcO)_3$, which is used in the manuf. of *waterproof textiles*. Chromal contains 12-13% of Al_2O_3. A method for the transformation of chromal into $Al(AcO)_3$ is described.

W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KAZAKOV, P. M.: Master Med Sci (diss) -- "Aspects of respiration in schizophrenia patients and changes in it with active therapy". Kuybyshev, 1959. 23 pp (Stalingrad State Med Inst), 200 copies (KL, No 16, 1959, 110)

URYUPOV, Yu.S.; IVANOV, Yu.N.; GUSEVA, Ye.N.; KAZAKOV, P.M.

Professor Mikhail Vasil'evich Sergievskii. Kaz.-med.zhur. 40 no.2:92-94 Mr-Ap '59. (MIRA 12:11)
(SERGIEVSKII, MIKHAIL VASIL'EVICH, 1898-)

SHVETS, V.B., kand.tekhn.nauk; KAZAKOV, P.P., inzh.

Testing soil for displacement by forcing it to bulge out in the field. Transp. stroi. 12 no.5:38-40 My '62. (MIRA 15:6)
(Soil mechanics)

SHVETS, V.B. (Sverdlovsk); KAZAKOV, P.P. (Sverdlovsk)

Using field methods to determine the resistance of soil to shear.
Osn., fund. i mekh. grun. 5 no.1:15-17 '63. (MIRA 16:5)
(Soil mechanics)

KAZAKOV, P.P.; FILIPPOV, A.F.

Calculating the specific heat of the electroaluminothermic process for the production of ferroboron. Izv. vys. ucheb. zav.; chern. met. 8 no.7; 63-68 '65. (MIRA 18:7)

1. Moskovskiy institut stali i splavov.

KAZAKOV, P.P.; RADILOV, S.V.

Method for determining susceptible beads in metallurgical slags.
Zav. lab. 31 no.9:1112-1113 '65. (MIRA 18:10)

1. Novolipetskiy metallurgicheskiy zavod.

KAZAKOV, P.P.; KHRYUKIN, D.Z.

Using aluminum chips in the production of ferroboron. Stal' 25 no.3:242 Mr '65. (MIRA 18:4)

1. Novolipetskiy metallurgicheskiy zavod.

KHRYUKIN, D.Z.; [illegible]; LUGOVTSEV, I.V.

Using aluminum chips instead of powder in producing ferro-alloys. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 18 no.9:6-7 S '65. (MIRA 18:10)

SHVETS, V.B.; KAZAKOV, P.P.

Measuring the deformation area in cohesive soils; field studies. Osn., fund. i mekh. grun. 7 no.4:10-12 '65.

(MIRA 18:8)

KAZAN[illegible], [illegible] ([illegible]); [illegible], A.V. ([illegible])

[illegible] constitution of slags [illegible] the making of ferroboron. [illegible] AN [illegible]. Met. no.4:6[illegible]-67 [illegible]

(MIRA 18:8)

KAZAKOV, P.P.; STAROVOYTOV, Ye.T.

Developing boron ore for ferroboron smelting. Biul.tekh.-ekon. inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 18 no.5:4-5 My '65. (MIRA 18:6)

L 16554-65 EWT(m)/EWA(d)/EPR/EWP(t)/EWP(b) Pe-4 ASD(m)-3/AFTC(p)/IJP(c)
MJW/JD

ACCESSION NR: AP4045702 S/0193/64/000/009/0008/0009

AUTHOR: Trapeznikov, P. V.; Kazakov, P. P.

TITLE: Application of boron-containing alloys

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 9, 1964, 8-9

TOPIC TAGS: alloy steel, aluminum alloy, chromium alloy, nickel alloy, silicon alloy, ferrochromeboron, BAl ferroboral, BA2 ferroboral, BMKCh ferrosilicoboral, boron alloy, boron addition, ferroboron

ABSTRACT: The Novolipetskiy metallurgicheskiy zavod (Novolipetskiy Metallurgical Plant) makes boron-containing alloys with small additions of chromium, nickel, silicon, and aluminum. The Izhevskiy metallurgicheskiy kombinat (Izhevskiy Metallurgical Combine) and the Kuznetskiy metallurgicheskiy kombinat (Kuznetskiy Metallurgical Combine) use BAl and BA2 ferroboral for alloying purposes. The latter is also used in the Mosenergo, Lenenergo, and Donbassenergo power systems. The Gor'kovskiy avtomobil'ny*y zavod (Gor'kovskiy Automobile Plant), "Rostsel'mash," and "Krasny*y Aksay" use BMKCh ferrosilicoboral for the inoculation of malleable cast iron. The best hardenability of steel is attained with a boron addition of

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ACCESSION NR: AP4045702

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0.0011-0.007%. The wear resistance of power-equipment parts exposed to abrasion is improved with the addition of 0.7-1.1% boron along with other elements, particularly nickel. The high-temperature strength of steel and alloys is improved by the addition of BZhR or ZhB ferroboron. The hardenability, hardness, and keenness of high-speed stainless steel is improved with the addition of up to 5% of boron, as in the manufacture of the EI262, RF1, RK5, and RK10 steel. Use of the new ferrochromeboron developed in recent years will save 20,000 t of metal annually at the Anzhero-Sudzhenskiy zavod ugol'nogo mashinostroyeniya (Anzhero-Sudzhenskiy Coal Machinery Plant) alone. It is concluded that in spite of the importance of the application of boron, boron compounds, boron-containing ferroalloys, and master alloys in the national economy, such application is as yet inadequate.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000

Card 2/2

KAZAKOV, P. T.

"Cysticercosis of tho Armored Tapeworm (Taenia Solium) in Man." Dr Med Sci, First Leningrad Medical Inst, Leningrad, 1953. (RZhBiol, No 3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

KAZAKOV, R.

First republic conference of semiprofessional medical personnel of the Tatar .S.S.R. Zdrav.Ros.Feder. 3 no.2:48 F '59.
(MIRA 12:2)

(TATAR A.S.S.R.--PUBLIC HEALTH)

BORISEVICH, D. (Gomel'); KAZAKOV, S. (Brest)

Growing ranks of volunteer firemen. Pozh.delo 7 no.11:27-28 N '61. (MIRA 14:11)

(White Russia--Fire extinction--Societies)

KAZAKOV, S. A.

Kurs sfericheskoy . Astronomii, 1940.

KAZAKOV, S. A.

Vychisleniye trayektoriy tsentrov tyazhesti artilleriyskikh snaryadov. Prikl. matem. i mekh., 9 (1945), 129-138.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich A. I.
Rashevskiy, P. K.
Moscow-Leningrad, 1948

KRAYUSHKIN, V.A., KAZAKOV, S.B.; ANDRUSECHKO, V.I.

Spectrographic investigation of petroleum soils obtained from the menilite series of the Dolina field. Neftegaz. geol. i geofiz. no.4:58-62 '63 (MIRA 17:?)

1. L'vovskiy institut geologii i poleznykh iskopayemykh AN UkrSSR i Neftepromyslovoye upravleniya "Dolinanaft".

KRAVCHENKO, V.A. [Kravchenko, V.O.]; KRAMKOV, S.I.; DANILINA, Ya.M. [Danilyna, Ia.M.]

Ash content in oils of the Novo-Bitkov anticline. Dop. AN URSR no.12: 1625-1628 '63. (MIRA 17:9)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR. Predstavlene akademikom AN UkrSSR V.B. Porfir'yevym [Porfir'iev, V.B.].

KRAYUSHKIN, V.A. [Kraiushkin, V.O.]; KAZAKOV, S.B.; ANDRUSECHKO, V.I.

Ash from the Menilite series in the Dolina field containing oils.
Dop. AN URSR no.1:102-104 '64. (MIRA 17:4)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR. Predstavleno akademikom AN UkrSSR V.B.Porfir'yevym [Porfir'iev, V.B.].

KRAYUSHKIN, V.A. [Kraiushkin, V.O.]; KAZAKOV, S.B.; POVKHOVICH, V.I. [Povkhovych, V.I.]

Trace metals in the oils from the Menilite series of the Borislav underthrust. Dop. AN URSR no.3:354-358 '65.

(MIRA 18:3)

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR.

SOBKO, M.Ya., dotsent; KAZAKOV, S.B.

Content of macro- and microelements in goiter-changed and normal thyroid glands in the residents of L'vov Province. Vrach. delo no.6:124-125 Je'63. (MIRA 16:9)

1. Kafedra neorganicheskoy khimii (zav. - kand. med. nauk, dotsent V.P.Gusyakov) L'vovskogo meditsinskogo instituta, spektral'naya laboratoriya (zav. - S.B.Kazakov) Instituta geologii i poleznukh iskopayemykh AN UkrSSR.
(LVOV PROVINCE—GOITER) MINERALS IN THE BODY)

KAZAKHOV, S.D.

Function of the adrenal cortex in obesity and its relation to therapeutic nutrition. Vop.pit. 17 no.3:48-55 My-Je '58. (MIRA 11:6)

1. Iz otdeleniya bolezney obmena veshchestv (zav. - prof. M.N. Yegorov) Kliniki lechebnogo pitaniya Instituta pitaniya AMN SSSR, Moskva.

(DIETS, in var. dis.
obesity, eff. on adrenal cortex funct. (Rus))
(ADRENAL CORTEX, in var. dis.
obesity, eff. of diet ther. (Rus))
(OBESITY, therapy,
diets, eff. on adrenal cortex (Rus))

KAZAKOV, S.I.

Standardization of spring mechanisms. Det. khor. igr. no.1:41 '55. (MLRA 10:2)

1. Konstruktor Nauchno-issledovatel'skogo instituta igrushki.
(Springs (Mechanism))

KAZAKOV, S.P.

SKO-10 clamp for trimming the ears of working dogs.
Veterinariia 32 no.6:62-63 Je '55. (MLRA 8:7)
(VETERINARY INSTRUMENTS AND APPARATUS) (DOGS)

1. KAZAKOV, S. P., MARKIN, M. A.

2. USSR (600)

4. Nozzles

7. Multiple-channel nozzle with mechanical vibrators. Dost. sel'khoz. no. 2, 1952

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

MARKIN, M.A.; KAZAKOV, S.P.

Testing sprinkler apparatus and machines and calculating their hydraulic power. Mekh. i elek.sel'khoz. no.4:40-46 Ap '53. (MLRA 6:5)
(Sprinklers)

KAZAKOV, S.P., kandidat tekhnicheskikh nauk.

Practical placement of sprinkler nozzles. Gidr.i mel. 5 no.4:37-44 Ap '53.
(MLRA 6:5)
(Sprinkler irrigation)

ASTAFOV, S. P., Candidate of Mechanical Sciences and ASTAFOV, V., Doctor of Agricultural Sciences, All-Union Scientific Research Institute of Hydrotechnics and Reliorration

" Sprinkling as a Means of Protection against Early Autumn Frosts"

Doklady Vsesoyuznoy Ordena Lenina Akademii Sel'skokhozyaystvennykh Nauk imeni V. I. Lenina No 1, 1956, pp 30-33, Encl

IBAD-ZADE, Yu.A.; KAZAKOV, S.P.

Studying hydraulic monitor jets. Dokl.AN Azerb.SSR 12 no.12:913-922 '56. (MLRA 10:8)

1.Institut energetiki Akademii nauk Azerbaydzhanskoy SSR. Predstavleno akademikom Akademii nauk Azerbaydzhanskoy SSR Z.I. Khalilovym.

(Jets--Fluid dynamics)
(Oil well drilling)

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