KUZNETSOV, I.P., dotsent

Improving labor conditions in open pit mines. Izv. vys. ucheb. zav.; gor. zhur. no.8:76-79 '58. (MIRA 12:5)

1. Sverdlovskiy gornyy institut.
(Strip mining) (Mine ventilation)

KUZNETSOV, I.P., dotsent

Conference on mine building. Izv.vys.ucheb.zav.; gor.zhur. no.9:124 '58. (MIRA 12:6)
(Poland--Mining engineering--Congresses)

BRICHKIN, Aleksandr Vasil'yevich; NIKIFOROV, Ivan Mikhaylovich; SKALKIN, B.P., dots., retsenzent; SLASTUNOV, V.G., gornyy inzh., retsenzent; KUZNETSOV, I.P., dots., kand. tekhn. nauk, retsenzent; YARTSEV, V.A., dots., kand. tekhn. nauk, retsenzent; KULIKOV, V.P., assistent, retsenzent; SINITSIN, I.A., assistent, retsenzent; USOV, V.I., assistent, retsenzent; BUBOK, K.G., otv. red.; PARTSEVSKIY, V.N., red.izd-va; SABITOV, A., tekhn. red.

[Safety measures in mines] Tekhnika bezopasnosti na rudnikakh. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 440 p. (MIRA 15:2)

1. Severo-Kavkazskiy gornometallurgicheskiy institut (for Skalkin, Slastunov). 2. Zaveduyushchiy kafedroy tekhniki bezopasnosti i rudnichnoy ventilyatsii Sverdlovskogo gornogo instituta im. V.V.Vakhrusheva (for Kuznetsov). 3. Kafedra tekhniki bezopasnosti i rudnichnoy ventilyatsii Sverdlovskogo gornogo instituta im. V.V.Vakhrusheva (for Yartsev, Kulikov, Sinitsin, Usov).
(Mining engineering—Safety measures)

KUZNETSOV, I.P., dotsent, kand.tekhn.nauk

Dust content of the air in the Korkino Coal Preparation Plant. Sbor. rab. po silik. no.3:177-179 '61. (MIRA 15:10)

1. Sverdlovskiy gornyy institut.
(Chelyabinsk Basin—Coal preparation—Hygienic aspects)
(Dust—Prevention)

YARTSEV, V.A., dotsent; KUZNETSOV, I.P., dotsent; D'YAKOV, V.V., dotsent; KOVALEV, V.I., dotsent; SINITSIN, Ye.A., inzh.

Textbook on mine ventilation. Izv. vys. ucheb. zav.; gor. zhur. 6 no.4:194-197 '63. (MIRA 16:7)

(Mine ventilation)

3422 KUZNETSOV I.P.

Osnovy skorostnogo shlifovaniya i puti ego vnedreniya v. proizvodstvo, M., Mashgiz, 1954 68s. s. ill. 22 sm (M-vo avtomob., trakt. i s. KH mashinostroyeniya SSSR nauch-issled. i yeksperim in-t po tspnikovoy Prom-sti YENIIPP Vyp. 4) 6.000 ekz. 2k. 30k (54-57593) P

KUZNETSOV, I.P.

Bases for high-speed grinding and possibilities for its improvement. Trudy MVTU no.66:70-126 '55. (MLRA 9:8)
(Grinding and polishing)

KUZNETSOV, I.P.

Investigating the conditions of high-speed grinding. Trudy Sem. po kach. poverkh. no.3:76-96 '57. (MLRA 10:11)
(Grinding and polishing)

KUZNETSOV, I.P.

KUZNETSOV, I.P.

Effect of active metal-working lubricants on grinding operations. (MLRA 10:11)
Trudy Sem. po kach. poverkh. no.3:261-268 '57.
(Metal-working lubricants) (Grinding and polishing)

BAYKOV, S.P., kand. tekhn. nauk; BELENKO, I.S., kand. tekhn. nauk; BELKOV, S.F., inzh.; BELYANCHIKOV, M.P., inzh.; BERNSHTEYN, I.L., inzh.; BOGORODITSKIY, D.D., inzh.; BOLONOVA, Ye.V., kand. tekhn. nauk; BROZGOL', I.M., kand. tekhn.nauk; VLADIMIROV, V.B., inzh.; VOLKOV, P.D., kand. tekhn. nauk; GERASIMOVA, N.N., inzh.; ZHUKHOVITSKIY, A.F., inzh.; KABANOV, M.F., inzh.; KANEVTSOV, V.M., kand. tekhn. nauk; KOLOTENKOV, I.V., inzh.; KONDRAT'YEV, I.M., inzh.; KUZNETSOV, I.P., kand. tekhn. nauk; L'VOV, D.S., kand. tekhn. nauk; LYSENKO, I.Ya., kand. tekhn. nauk; MAKAROV, L.M., inzh.; OLEYNIK, N.D., inzh.; RABINER, Ye.G., inzh.; ROZHDESTVENSKIY, Yu.L., kand. tekhn. nauk; SAKHON'KO, I.M., kand. tekhn. nauk; SIDOROV, P.N., inzh.; SPITSYN, N.A., prof., doktor tekhn. nauk; SPRISHEVSKIY, A.I., kand. tekhn. nauk; CHIRIKOV, V.T., kand. tekhn.nauk; SHEYN, A.S., kand. tekhn. nauk; NIBERG, N.Ya., nauchnyy red.; BLAGOSKLONOVA, N.Yu., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Antifriction bearings; manual] Podshipniki kacheniia; spravochnoe posobie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 828 p. (MIRA 15:2)
(Bearings (Machinery))

L 10893-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(c) ID/HW/DJ

ACC NR: AP6000320 SOURCE CODE: UR/0286/65/000/021/0008/0008

39
38
B

INVENTOR: Kuznetsov, I. P.

ORG: none

TITLE: Device for forming ogival parts. Class 7, No. 175917

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 8

TOPIC TAGS: metal forming, sheet ~~forming~~ metal, plate forming, ~~sheet part, ogival parts, part forming~~

ABSTRACT: This Author Certificate introduces a unit for forming ogival parts from metal sheets or plates. The unit (see Fig. 1) contains a blank (or preform) heater and a hydraulically driven male die. To facilitate the forming operation in the case of hard-to-form metal, the unit is provided with removable top 1

Card 1/2 UDC: 621.7.043.06

L 10893-66

ACC NR: AP6000320

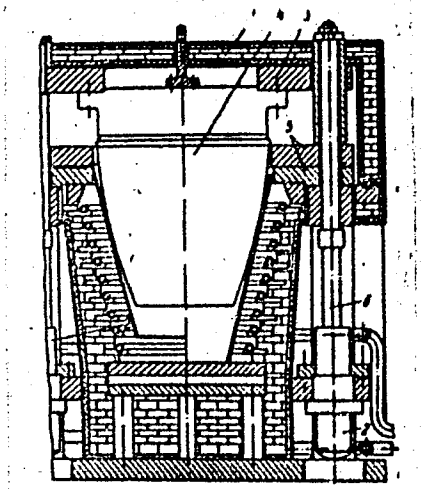


Fig. 1. Unit for forming ogival parts

1 - Removable top; 2 - hydraulic cylinders; 3 - plate; 4 - male die; 5 - clamping rings; 6 - columns.

and hydraulic cylinders 2 mounted on the unit base, which drive clamping rings 5 and plate 3 carrying male die 4. Orig. art. has: 1 figure. [DV]

SUB CODE: 13/ SUBM DATE: 09Aug63/ ATD PRESS: 4172

Card 2/2 HW

KUZNETSOV, I.S.; POLEVODIN, Ye.I.

Highly mechanized mine. Ugol' 36 no.8:5 Ag '61. (MIRA 14:9)

1. Nachal'nik zhakhty "Novo-Pavlovskaya" kombinata Donbassantratsit", Luganskiy sovnarkhoz (for Kuznetsov). 2. Zamestitel' glavnogo inzhenera shakhty "Novo-Pavlovskaya" kombinata Donbassantratsit (Luganskiy sovnarkhoz) (for Polevodin).
(Donets Basin--Coal mines and mining)

KUZNETSOV, I.S.; YAKUPOV, T.Sh.

The K-83-2 twisting machine. Biul.tekh.-ekon.inform. no.5:41-43 '58. (MIRA 11:7)

(Textile machinery)

KUZNETSOV, I.S., kandidat meditsinskikh nauk

Late results of surgery for perforating ulcer of the stomach and duodenum. Khirurgiia no.7:30-34 Jl '55 (MLRA 8:12)

1. Iz 1-go khirurgicheskogo otdeleniya (zav.-zasluzhennyy deyatel' nauki prof. B.M.Linberg) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo

(PEPTIC ULCER, perforation
surg.,remote results)

USSR/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae. R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92700

Author : Pogonyalo, G. F., Popov, I. A., Kuznetsov, I. S., Podokshik, S. B.

Inst : Leningrad Scientific Research Institute of Veterinary Science.

Title : Simultaneous Anti-Plague Vaccinations at Large Pig-Fattening Farms as a Single Measure for a Quick Eradication of the Epizootic Character of Swine Plague.

Orig Pub : Sb. tr. Leningra. n.-i. vet. in-ta, 1956, vyp. 6, 126-132

Abstract : No abstract.

Card : 1/1

KUZNETSOV, I.S. (moskva)

Pathogenesis of peptic ulcer in gastroenteroanastomosis [with summary in English]. Arkh.pat. 20 no.12:48-55 '58. (MIRA 12:1)

1. Iz morfologicheskogo otdela (zav. - prof. A.P. Avtsyn) Nauchno-issledovatel'skoy laboratorii (dir. - chlen-korrespondent AMN SSSR prof. S.R. Mardashev) Ministerstva zdravookhraneniya SSSR i 1-y khirurgicheskoy kliniki (zav. - dots. N.I. Makhov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo.

(GASTRECTOMY, compl.
postop. recur. of ulcer of gastro-intestinal anastomoses (Rus))

KUZNETSOV, I.S., kand. med. nauk.

Result of a roentgenological examination of patients following conservative therapy for intestinal obstruction. Sov. med. 23 no.3: 49-53 Mr '59. (MIRA 12:4)

1. Iz rentgeno-radiologicheskogo otdela (rukovoditel' - kand. med. nauk V.I. Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo (dir. - kand. med. nauk P.M. Leonenko).

(INTESTINE OBSTRUCTION, ther.
conservative ther., x-ray of results (Rus))

KUZNETSOV, I.S., kand.meditsinskikh nauk; PETROV, V.I., kand.meditsinskikh nauk; FEDOTOV, P.D.

Roentgen diagnosis of actinomycosis of the thoracic and abdominal cavity. Vest. rent. i rad. 35 no. 5:37-43 S-O '60. (MIRA 13:12)

1. Iz rentgeno-radiologicheskogo otdela (zav. - kandidat meditsinskikh nauk V.I. Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo (dir. - kand.med. nauk P.M. Leonenko).
(ACTINOMYCOSIS)

KUZNETSOV, I.S. (Moskva)

Experimental alcoholic gastropathy. Arkh. pat. 27 no. 12: 41-46 '65. (MIRA 18:12)

1. Nauchno-issledovatel'skaya laboratoriya (dir. - dotsent [redacted] Uskov) Ministerstva zdravookhraneniya SSSR i Institut morfologii cheloveka (dir. - deyatvitel'nyy chlen AMN SSSR prof. A.P. Avtsyn) AMN SSSR, Submitted June 11, 1964.

KUZNETSOV, I. T.

Business calculation in the tractor brigades of machine-tractor stations
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1952. 110 p. (53-35365)

S567.K8

1. KUZNETSOV, I.T.
2. USSR (600)
4. Tractors
7. High technical level in tractor operation. Dost. sel'khoz. No. 10, 1952.

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

KUZNETSOV, I. T.
Vnutrenniye rezervy MTS (Internal reserves of machine tractor service station, by) S. K. Gusev, I. T. Kuznetsov. Moskva, Gos. Izd-vo. Sel'skokhozyaystvennoy Literatury, 1953.
127 p. diagrs., tables.
Bibliographic footnotes.
So: N/5
723. 11
.g98

KUZNETSOV, I. T., Prof.

Tractors

Compensation for decrease in tractors' traction power. Mekh. elek. sel'khoz. No. 1, '53.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

KUZNETSOV, Iosif Timofeyevich; GREBTSOV, P.P., redaktor; ZUBRILINA, Z.P., tekhnicheskiy redaktor

[Business accounting and the profit factor at machine-tractor stations] Khozraschet i rentabel'nost' MTS. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 75 p. (MLRA 10:3)
(Machine-tractor station--Accounting)

USSR / Cultivated Plants. Fruits, Berries. M-7

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58754

Author : Kuznetsov, I. V.
Inst : Not given
Title : Walnuts in the Stavropol' Kray

Orig Pub : Sad i ogorod, 1957, No 6, 57-59

Abstract : Walnut is widespread everywhere in gardens, as well as in garden protecting belts, where there are large plantings of 100-200 ha. It propagates by seeds. In order to improve its winter resistance it is recommended to introduce PK in doses of 120 kg of acting substance per ha. The best walnut varieites are: Troyanovskiy, Profsoyuznyy, Ostronosyy, Belyy and Podkumskiy.

Card 1/1

KUZNETSOV, I.V.

My plan for increasing the labor productivity. Blok.agit.vod. transp. no.12:27-34 Je '56. (MLRA 9:8)

1. Starshiy kranovshchik Leningradskogo morskogo porta.
(Leningrad--Harbors)

KUZNETSOV, I.V.

SHPITAL'NYY, A.S.; KUZNETSOV, I.V. [redacted]

Alkylation ϵ-caprolactam and diamines of the fatty series by catalytic dehydration. Zhur.prikl.khim. 30 no.12:1848-1850 D '57. (MIRA 11:1)

(Alkylation) (Hexamethylenimine) (Amines)

Kuznetsov, I. V.

GULYAYEV, A.P.; KUZNETSOV, I.V.; TIKHONRAVOVA, T.L.; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Stabilization of the dimensions of ball-bearing races by means of cold treatment in tempering] Stabilizatsiia razmerov kolets podshipnikov putem obrabotki kholodom pri zakalke. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1952. 25 p. (MLRA 9:3) [Microfilm]

(Ball-bearings) (Steel--Metallurgy)

KUZNETSOV, I. V. (Engr.)

"Mechanization and Automation of Heat-treating Processes at 1 GPZ *, " Termicheskaya obrabotka i prochnost' metallov i splavov; sbronik statey (Heat Treatment and Strength of Metals and Alloys; Collection Articles) Moscow, Mashgiz, 1958, 177 p.

According to Kuznetsov, the output of bearings greatly increased at the plant after World War II, both in actual volume and in number of types. As a result, a special office was created at the plant for designing and putting into operation more modern, efficient heat-treating equipment. Such new equipment, now in operation at the plant, includes electric hardening furnaces with vibrating floors; shaft-type electric furnaces for carburizing, hardening, and tempering of large-sized parts; conveyer-type electric tempering furnaces; pusher-type annealing furnaces; and high- and low-temperature electric muffle furnaces. The new equipment has made possible the complete automation of heat-treating processes. Various problems of further improving heat-treating equipment are discussed.

* GPZ (Pervyy Gosudarstvennyy podshipnikovyy zavod; First State Bearing Plant)

KUZNETSOV, I.V., podpolkovnik

Beginning of great changes. Vest. protivovozd. obor. no.7:35-36 Jl '61. (MIRA 14:8)
(Airplanes, Military--Maintenance and repair)

KUZNETSOV, I.V.

State and results of prospecting operations in connection with the underground storage of gas in the Kiev Economic Region of the Ukrainian S.S.R. Trudy SGPK no.3:125-162 '62. (MIRA 15:10)
(Kiev Economic Region—Gas, Natural—Storage)
(Prospecting)

KUZNETSOV, I.V., red.; Prinimali uchastiye: BLYAKHER, L.Ya., prof., red. ; STRASHUN, I.D., prorf., red.; SHVARTSMAN, A.L., red.; BALASHEV, L.L., prof., red.; SKATKIN, P.N., kand. biol. nauk, red.; MIKULINSKIY, S.R., kand. biol. nauk, red.; KUZNETSOVA-YERMOLOVA, Ye.B., red.; KRYUCHKOVA, V.N., tekhn. red.

[People of Russian science; sketches of outstanding figures in the natural sciences and technology: Biology, medicine, agricultural sciences] Liudi russkoi nauki; ocherki o vydaiushchikhsia deiateliakh estestvoznaniia i tekhniki: Biologiia, meditsina, sel'skokhoziaistvennye nauki. Moskva, Fizmatgiz, 1963. 895 p. (MIRA 17:1)

1. Deystvitel'nyy chlen AMN SSSR (for Strashun).

KUZNETSOV, I.V., red.

[People of Russian science; essays about the outstanding workers in natural science and technology] Liudi russkoi nauki; ocherki o vydaiushchikhsia deiateliakh estestvoznaniia i tekhniki. Pod red. I.V.Kuznetsova. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961- 4 v.
(MIRA 17:9)

KUZNETSOV, I. V.

KUZNETSOV, I. V. Characteristic features of Russian natural science. Moskva Pravda 1948. 31 p. (50-21324)

Q127.R9K8

KUZNETSOV, I. V.

KUZNETSOV, I. V. The principles of conformity in modern physics and its philosophical significance. Moskva, Gos. izd-vo tekhn.-teoret. lit-ry, 1948. 116 p. (Filosofskie problemy sovremennogo estestvoznaniia) (50-19843)

QC6.K8

USSR/Physics - Political Control Sep 51
Book Review

"For the Subsequent Dialectic Materialistic Clarification of Progress of Modern Physics," I. V. Kuznetsov, M. F. Ovchinnikov

"Uspekh Fiz Nauk" Vol XLV, No 2, pp 113-140

Authors review A. F. Ioffe's Book "Fundamental Concepts of Modern Physics," 1949, 368 pp. According to Ioffe the book is not a manual. He discusses only certain problems such as theory of relativity, statistics, atomic and nuclear physics. He pays respect to Russian discoveries

194T87

USSR/Physics - Political Control (Contd) Sep 51

and Soviet views. Critics review book favorably, although they believe the book is not completely free of foreign scientific influence which should be eliminated.

194T87

KUZNETSOV, I. V.

PA 194T87

KUZNETSOV, I. V.

Science - Philosophy

Triumph of Lenin's idea in science., Nauka i zhizn'., 19, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1952, UNCL.

KUZNETSOV, I. V.

Physicists

Example of devoted service to science and to the socialistic fatherland (S. I. Vavilov)., Priroda, 41, no. 1, 1952.

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

1. KUZNETSOV, I. V.

2. USSR 600

4. Physics - Philosophy

7. Against idealistic distortions of the mass and energy concepts, Usp. fiz. nauk 48, No. 2, 1952.

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

KUZNETSOV, I.V., kandidat filosofskikh nauk.

Irresistible force of the ideas of materialism. Nauka i zhizn' 21 no.11:43-45 N '54. (MLRA 7:12)
(Materialism)

KUZNETSOV, I.V.

KUZNETSOV, I.V., kandidat filosofskikh nauk

Engels and natural sciences. Nauka i zhizn' 22 no.8:1-6 Ag'55.
(MLRA 8:10)
(Engels, Friedrich, 1820-1895)

VAVILOV, S.I.; LEBEDEV, A.A., akademik; TOPCHIYEV, A.V., akademik; TERENIN, A.N., akademik; LANDSBERG, G.S., akademik; VUL, B.M.; KRAVETS, T.P. [deceased]; LEVSHIN, V.L.; FEOFILOV, P.P.; GALANIN, M.D.; KUZNETSOV, I.V.; VAVILOV, V.S.; GUROV, K.P., redaktor izdatel'stva; KISELEVA, ALAL, tekhnicheskiy redaktor

[Collected works] Sobranie sochinenii. Moskva, Izd-vo Akademii nauk SSSR. Vol.4.[Experimental foundation of the theory of relativity. On "warm" and "cold" light. The eye and the sun. Popular scientific articles and reviews] Eksperimental'nye osnovaniia teorii otnositel'nosti, O "teplom" i "kholodnom" svete, Glaz i solntse, Nauchno-populiarnye i obzornye stat'i. 1956. 469 p. (MLRA 9:8)

1. Chlen-korrespondent AN SSSR (for Vul, Kravets)
(Physics)

Ku2.M2 T350, I.V.

24(5) PHASE I BOOK EXPLOITATION SOV/3313

Akademiya nauk SSSR. Institut filosofii

Filosofskiye voprosy sovremennoy fiziki (aborniki) (Philosophical Problems of Modern Physics; Collection) Moscow, Izd-vo AN SSSR, 1959. 426 p. Errata slip inserted. 7,000 copies printed.

Ed.: I. V. Kuznetsov and M. E. Omel'yanovskiy; Ed. of Publishing House: V. K. Korol; Tech. Ed.: S. G. Markovich.

PURPOSE: This book is intended for physicists but may be read gainfully by other scientists and the educated layman interested in the philosophical questions of advanced physics.

COVERAGE: This book contains 12 articles on philosophical problems in physics. Problems are divided into three subject divisions: 1) general problems; 2) problems of quantum theory; 3) problems in the theory of relativity. The views of Einstein, Bohr, Born, Planck, Pauli, Schrödinger, Heisenberg, Jancsy, et al. are presented and subjected to criticism from the Soviet side by Omel'yanovskiy, Fok, et al. Questions dealing with idealism, agnosticism, and dialectical materialism in the philosophy of physics are discussed. This collection of articles is the third in a series under the same title. Earlier volumes were published in 1952 and 1958. References accompany each article.

TABLE OF CONTENTS:

KUZNETSOV, I.V.; OVCHINNIKOV, N.F.; OMEL'YANOVSKIY, M.E.; UYEMOV, A.I.; MELYUKHIN, S.T.; SACHKOV, Yu.V.; SVECHNIKOV, G.A.; NOVIK, I.B., red.izd-va; LAUT, V.G., tekhn.red.; MARKOVICH, S.B., tekhn.red.

[Principles of casuality in modern physics] Problems prichinnosti v sovremennoi fizike. Moskva, 1960. 428 p.
(MIRA 14:3)

1. Akademiya nauk SSSR. Institut filosofii.
(Physics--Philosophy)

KUZNETSOV, I.V.

Lenin's philosophical ideas and cognition of nature; on the 90th anniversary of his birth. Usp. mat. nauk 15 no.2:I-VIII Mr-Ap '60. (MIRA 13:9)
(Lenin, Vladimir Il'ich, 1870-1924)

FABRIKANT, Valentin Aleksandrovich, prof., doktor fiziko-matem. nauk; CHERENKOV, Pavel Alekseyevich, prof., doktor fiziko-matem. nauk, laureat Nobelevskoy premii; GALANIN, Mikhail Dmitriyevich, prof., doktor fiziko-matem. nauk; KUZNETSOV, Ivan Vasil'yevich; TOLSTOY, Nikitia Alekseyevich, prof., doktor fiziko-matem. nauk; VINTER, Aleksandr Vasil'yevich, akademik [deceased]; BARDIN, Ivan Pavlovich, akademik [deceased]; BAZHENOV, A.I., FAINBOYM, I.B., red.; RAKITIN, I.T., tekhn. red.

Sergei Ivanovich Vavilov; sbornik. Moskva, Izd-vo "Znanie," 1961. 43 p. (Vsesoyuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.9, Fizika i khimiia, no.10) (MIRA 14:7)

(Vavilov, Sergei Ivanovich, 1891-1951)

KUZNETSOV, I.V., kand.filosof.nauk

Magician of the kingdom of light; on the occasion of the 70th anniversary of the birth of Academician Sergei Ivanovich Vavilov. Nauka i zhizn' 28 no.4:70-73 Ap '61. (MIRA 14:5)
(Vavilov, Sergei Ivanovich, 1891-1951)

KUZNETSOV, I.V.

S.I.Vavilov's works on philosophy and natural history. Usp.fiz. nauk 75 no.2:251-258 O '61. (MIRA 14:10)
(Vavilov, Sergei Ivanovich, 1891-)

BELYANKIN, D.S., akademik; BETEKHTIN, A.G., akademik; BORISYAK, A.A., akademik; GRIGOR'YEV, A.A., akademik; NALIVKIN, D.V., akademik; SHATSKIY, N.S., akademik; VLASOV, K.V.; ZHEMCHUZHNIKOV, Yu.A.; ORLOV, Yu.A.; FEDOROV, S.F.; KUZNETSOV, I.V., red.; MIKULINSKIY, S.R., red.; KUZNETSOVA-YERMOLOVA, Ye.B., red.; KRYUCHKOVA, V.N., tekhn. red.

[Russian scientists; sketches about outstanding workers in natural sciences and technology; geology and geography] Liudi russkoi nauki; ocherki o vydaiushchikhsia deiateliakh estestvoznaniia i tekhniki. Geologiia, geografiia. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1962. 579 p. (MIRA 15:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Vlasov, Zhemchuzhnikov, Orlov, Fedorov).
(Geology) (Geography)

BARANOV, V.I., red.; KARUS, Ye.V., red.; KUZNETSOV, I.V., red.; TIKHOMIROV, V.V., red.; TRUSOV, Yu.P., red.; SHCHERBAKOV, D.I., red.; KONDAKOV,N.I.,red.; MATYUKHINA, L.I., tekhn.red.

[Interaction of the sciences in the study of the earth] Vzaimodeistvie nauk pri izuchenii zemli. Moskva, Izd-vo AN SSSR, 1963. 323 p. (MIRA 16:11)
(Geophysics)

FRANK, G.M., otv. red.; KUZIN, A.M., otv. red.; KUZNETSOV, I.V., doktor filos. nauk, red.; LIVSHITS, N.N., doktor biol. nauk, red.; VEDENOV, M.F., kand. filos. nauk, red.; SHATALOV, A.T., mlad. nauchn. sotr., nauchn. red.; KREMYANSKIY, V.I., mlad. nauchn. sotr., nauchn. red.

[The essence of life] O sushchnosti zhizni. Moskva, Nauka, 1964. 350 p. (MIRA 17:8)

1. Akademiya nauk SSSR. Nauchnyy sovet po filosofskim voprosam yestestvoznaniya. 2. Institut filosofii AN SSSR (for Kremyanskiy, Shatalov). 3. Chlen-korrespondent AN SSSR (for Frank, Kuzin).

BERG,A.I.,akad.,red.; BURYUKOV, B.V., red.; NOVIK, I.B., red.; KUZNETSOV, I.V., red.; SPIRKIN, A.G., red.; KUZHOVA,M.,red.

[Cybernetics, thought, and life] Kibernetika, myshlenie, zhizn'. Moskva, Mysl', 1964. 510 p. (MIRA 17:12)

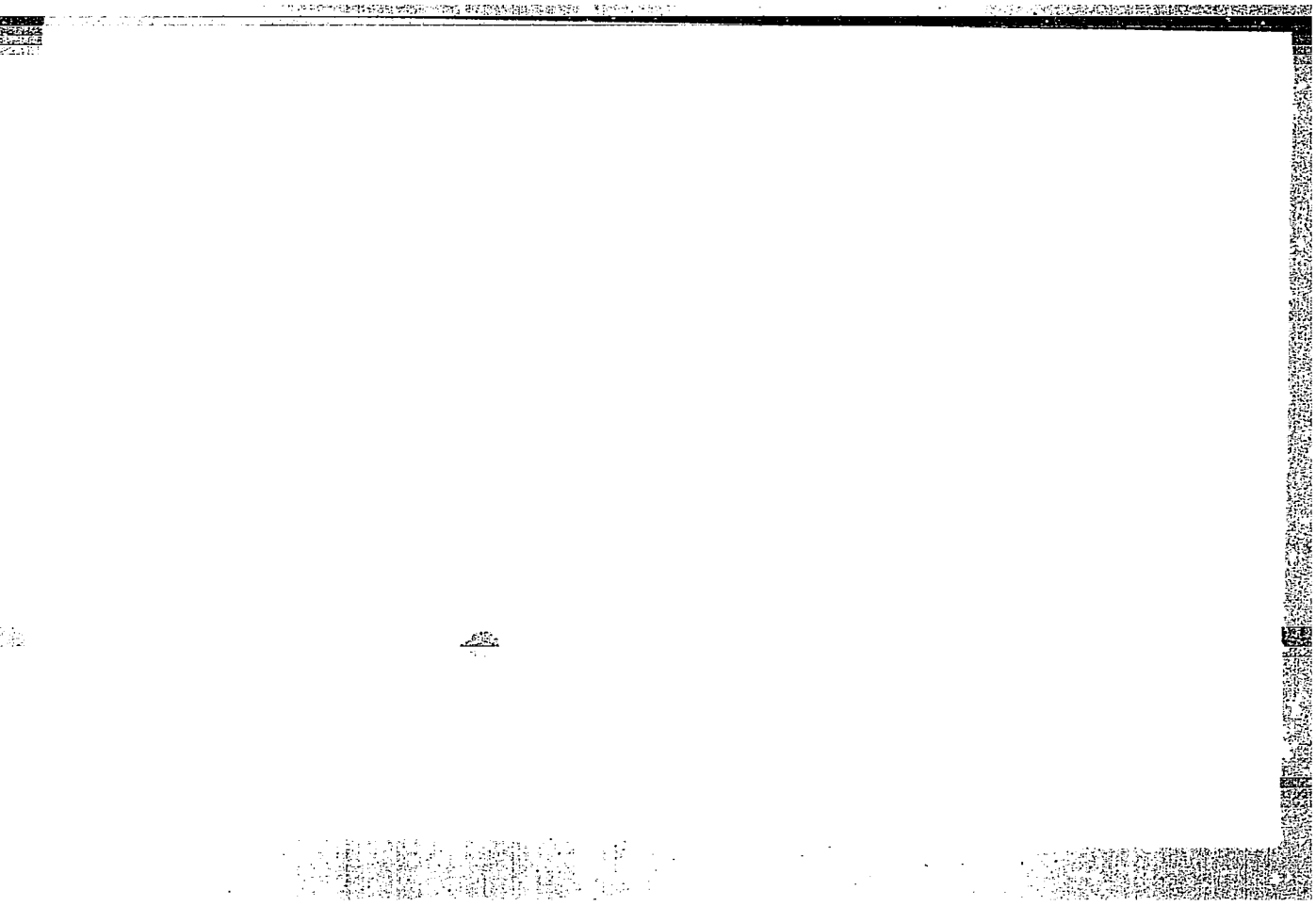
CMEL'YANOVSKIY, M.E., red.; KUZNETSOV, I.V., red.; VIKTOROVA, V., red.; TARASOVA, A., mlad. red.

[Dialectic in the sciences of inanimate nature; the physical and mathematical sciences] Dialektika v naukakh o nezhivoi prirode; fiziko-matematicheskie nauki. Moskva, Mysl', 1964. 598 p. (MIRA 18:1)

1. Akademiya nauk Ukr.SSR (for Cmel'yanovskiy).

KUZNETSOV, I.V.

Evaluating the methods of forming spiral-seam pipe. Met. i gornorud. prom. no.3:45-47 My-Je '65. (MIRA 18:11)



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120011-7"

KUZNETSOVA, I. V.

Mechanism of action of carotenoids. Carot[illegible] and sulfur metabolism. S. D. Balakhovskii and I. V. Kuznetsova. Sessiya Akad. Nauk S.S.S.R. po Mirnomu Ispol'zovaniyu Atomnoi Energii 1955, [illegible] 320-30. Carotene and [illegible] stimulate the activation of O and of peroxide [illegible] pseudoionone sulfuric acid [illegible] stimulation of these processes [illegible] indigosulfonate by the 2 forms [illegible] with serum globulin was [illegible] components. In vitamin [illegible] S^{35} in the liver and kidneys is observed, while other organs do not retain the labeled atom. Methionine labeled with S^{35} was used in studies of its assimilation into liver tissue. In these in vitro expts. with rat liver slices it was shown that a colloidal suspension of vitamin A greatly retards the penetration of the methionine into liver tissue of normal rats; an aq. colloid of retinine (vitamin A aldehyde) also retards this process but to a lesser degree. In avitaminosis A the same effect is observed but it is more pronounced. Intact animals which were given labeled methionine showed much higher S^{35} activity in the internal organs if they had been kept in a state of avitaminosis A than was shown by normal animals; this differential lasted for about 6 days.

G. M. Kosolapoff

(1)

Effect of carotenoids on the rate of penetration of methionine labeled with sulfur-35 into liver slices. S. D. Balakhovskii and I. V. Kuznetsova (A. N. Bakh Biochem. Inst., Moscow). *Doklady Akad. Nauk S.S.S.R.* 107, 565-7 (1956).—Studies with white rat liver slices which were incubated at 40° in a medium with S^{35}-labeled methionine and aq. colloidal soln. of carotenoid (carotene and retinene) in Ringer soln. showed that carotene at 0.5 mg.% concn. retards the penetration of methionine by some 22%, retinene gave a similar effect amounting to 19%. The effect is more pronounced in A-avitaminotic rats than in normal ones. G. M. Kosolapoff

2

Kuznetsova, I.V.

AUTHORS: Balakhovskiy, S. D. (Deceased), Kuznetsova, I. V. 20-2-36/60

TITLE: The Carotinoid Polyenes and the Oxidation Processes in the Organism (Karotinoidnyye poliyeny i okislitel'nyye protsessy v organizme) Retinol Deficiency and Sulfur Oxidation in the Organism (Retinol--nedostatochnost' i okisleniye sery v organizme)

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 331 - 333 (USSR)

ABSTRACT: Although the problem of the part played by the carotinoids in the biological oxidation process (reference 1) is not new, it is of considerable interest, as retinol (vitamin A) plays a responsible part in the organism of mammals. Without this vitamin the organism perishes under various symptoms of disease. It was hitherto not determined to which extent these phenomena are connected with the disturbed oxidation. Death already occurs before the vitamin reserves are completely exhausted. Thus the functions effected by the vitamin are not completely suppressed, but only inhibited which renders their discovery difficult. This leads to the fact that the influence exerted by A-avitaminosis upon the oxidation and especially the sulfur metabolism must be approached in different manners. By model tests the authors succeeded in proving that the carotinoid polyenes are capable of activating the molecular and peroxide

Card 1/4

oxygen (reference 2); in other cases, however, they act as inhibitors of the oxidation process (reference 3). In all cases observed it was no inhibition of competition of the oxidation. There could only be the question of a direct antagonism, i.e. of a direct anti-oxidative action. In another category of cases the oxidation inhibition may be indirect: vitamin A inhibits the basal metabolism (oxidation) by acting upon the thyroid gland or upon its hormone; the latter increases the sensitivity of cells to adrenalin whose introduction into the tissues activates the oxidation (reference 6). It is generally maintained that the cornification of epithelium-formation of a high-sulfur protein - takes place as a consequence of the formation of -S-S-bridges at the expense of the SH-groups of the keratin-predecessors. Such a reaction is catalyzed by copper and represents an oxidation process which is inhibited by carotinoids. Thus the typical occurrence of A-avitaminosis - the excessive keratinization - is a consequence of the oxidation process which is inhibited by the vitamin. Thus retinol from the standpoint of sulfur-metabolism is an antioxidant. The problem of the vitamin influence upon the total result of sulfur metabolism is connected with the preceding one and is of great importance for understanding the part played by retinol in the organism. It was

The Carotinoid Polyenes and the Oxidation Processes in the Organism. Retinol Deficiency and Sulfur Oxidation in the Organism

the aim of the tests made for this purpose to determine the influence of the carotinoid polyenes upon the intensity of oxidation of the so-called "neutral", i.e. reduced sulfur of the organic compounds in the mineral sulfate-sulfurs. Methionine labelled with S^{35} was interperitoneally introduced in 2 avitaminous and 2 normal (control-) rats respectively (altogether 44 animals). In an earlier paper (reference 8) the authors came to the conclusion that in A-avitaminoses no deposition of sulfur takes place, although a cornification of epithelium occurs. This latter is a result of the redistribution and the condensation of only smaller, normally occurring molecules of sulfurous compounds which may be considered predecessors of keratine. This was confirmed by the tests. No essential differences between the average quantity of S^{35} per 24 hours in the urine of avitaminous and normal animals was found to exist. But the degree of oxidation in these two groups of animals was different. Figure 1 shows that the fractionated urine in its fraction of oxidized sulfur in avitaminous animals was in all cases more active than in the healthy ones. This indicates that retinol in the organism inhibits the oxidation of the reduced ("neutral") sulfur to sulfate (mineral sulfur) in the same manner as it inhibits

20-2-36/60

The Carotinoid Polyenes and the Oxidation Processes in the Organism. Retinol Deficiency and Sulfur Oxidation in the Organism

the oxidation of the SH-groups to disulfite groups. There are 1 figure, and 10 references, 7 of which are Slavic.

PRESENTED: June 3, 1957, by A. I. Oparin, Academician

SUBMITTED: May 27, 1957

AVAILABLE: Library of Congress

Card 4/4

17(3)

SOV/20-127-3-62/71

AUTHORS: Balakhovskiy, S. D. (Deceased), Kuznetsova, I. V.

TITLE: On the Problem of the Physiological Effect of the β-Ionon. The Effect of the β-Ionon on Adrenalinic Hyperglycemia

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 696-698 (USSR)

ABSTRACT: Vitamin A (retinol) takes part in numerous processes in the organism. Deficiency of vitamin A causes numerous disturbances. But the fact that retinol takes part in so many processes renders the investigation of its effective mechanism very difficult. It is assumed that fragments of the retinol molecule (probably products of its disintegration in the organism) have some properties of the whole molecule; they may even be more distinctly marked. This is considered to be the reason for its effect on so many physiological processes. This theory has now been experimentally proved and explains partly the effect of retinol (Refs 1-3). Nevertheless, the problem is far from being solved. One of the interesting properties of vitamin A and of some of its molecule fragments is their ability to counteract the activity of the sympathetic nervous system (Refs 4-6). Thus it may be assumed that vitamin A (and some of its molecule fragments) can also

Card 1/3

counteract the physiological activity of adrenalin. Since the functions of adrenalin in the organism are manifold the problem of its interaction with some anti-adrenalin substances are interesting. Therefore the problem mentioned in the title was investigated. Grown-up male rabbits were used in this investigation. They received subcutaneous adrenalin injections (40 γ per 1 kg live weight). The experiment took 4 hours after which time the glucose concentration in the blood became normal again. β-Ionon alone was injected as control. Figure 1 shows that β-ionon alone does not change the glucose concentration in the blood. Figure 2 and table 1 show the results of the investigation of the problem mentioned in the title. After an adrenalin injection the glucose content of the blood increased from 99-100 mg% to 200-220 mg% after 1.5 - 2 hours. A previous injection of β-ionon lasting for one hour prevented such a considerable hyperglycemia so that the glycose concentration amounted to 130-150 mg% only. This corresponds to a decrease

On the Problem of the Physiological Effect of the β-Ionon. The Effect of the β-Ionon on Adrenalinic Hyperglycemia

SOV/20-127-3-62/71

of adrenalin hyperglycemia of 50 - 80%. Thus it can be concluded that β-ionon has a high degree of anti-adrenalin activity with regard to the glycogenolytical effect of adrenalin. There are 2 figures, 1 table, and 7 references, 5 of which are Soviet.

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. N. Bakh of the Academy of Sciences, USSR)

PRESENTED: April 6, 1959, by A. I. Oparin, Academician

SUBMITTED: April 3, 1959

Card 3/3

KUZNETSOV, I.V.

Organization of the treatment of helminthiasis in Novokuybyshevsk; author's abstract. Med. paraz. i paraz. bol. 34 no.2:232 Mr-Ap '65. (MIRA 18:11)

1. Parazitologicheskoye otdeleniye Novokuybyshevskoy sanitarno-epidemiologicheskoy stantsii.

KUZNETSOV, I.Ya.

A method of making visual aids. Geog. v shkole no.2:59 Mr-Ap '53.
(MLRA 6:5)
(Relief-maps)

KUZNETSOV, I.Ya.

Machine for finishing gypsum partitions. Suggested by I.IA. Kuznetsov. Rats.i izobr.predl.v stroi. no.14:32-34 '60. (MIRA 13:6)

1. Brigadir shtukaturov UNR-598 tresta Spetsstroy Glavrostovstroya, Rostov-na-Donu, Budennovskiy prospekt, 90.
(Gypsum) (Walls)

YERGALIYEV, A.Ye.; KUZNETSOV, I.Ye.; YURKOV, V.N.; POPENKO, M.Kh.; OSIPOV, A.V.

Development of systems of mining at the Belousovka Mine. Trudy Alt. GMNII AN Kazakh. SSR 10:3-11 '61. (MIRA 14:9)
(Altai Mountains--Mining engineering)

KUZNETSOV, I.Ye.

Experience in using the dispersion method for mineral analysis in the study of the gabbro-diorite massif in Kruglaya Mountain (Southern Urals). Vest.Mosk.un.Ser.4: Geol. 17 no.1:31-35 Ja-F '62.
(MIRA 15:2)

1. Kafedra petrografii Moskovskogo universiteta.
(Ural Mountains--Minerals--Analysis)
(Particle size determination)

KUZNETSOV, I.Ye.

Formation of talc on pyroxene porphyrites in the Southern Urals. Vest. Mosk. un. Ser. 4: Geol. 18 no.4:51-55 Jl-Ag '63. (MIRA 16:10)

1. Kafedra petrografii Moskovskogo universiteta.

KUZNETSOV, I.Ye.

Subvolcanic pyroxene porphyrites in Mednaya Mountain (Southern Urals). Vest.Mosk.un.Ser.4: Geol. 19 no.5:85-88 S-O '64.
(MIRA 17:12)

1. Kafedra petrografii Moskovskogo universiteta.

KUZNETSOV, I.Ye.; GANZ, S.N.

Improved design of a skip elevator. Koks i khim. no.12:30-31 '60.
(MIRA 13:12)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Hoisting machinery)

GANZ, Semen Naumovich; KUZNETSOV, Ivan Yefimovich; PREDTECHENSKAYA, N. [Predtechens'ka,N.], red.; SICHUGOV, V. [Sychuhov,V.], tekhn. red.

[Furnaces for the chemical industry] Vypaliuval'ni pechi khimichnoi promyslovosti. Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR, 1961. 217 p. (MIRA 14:10)

(Furnaces)

GANZ, S.N. ; KUZNETSOV, I.Ye.

Hydrodynamics of centrifugal atomizers. Trudy MKHTI no.16:173-182 '62. (MIRA 17:8)

GANZ, S.N., kand.tekhn.nauk; KUZNETSOV, I.Ye., kand.tekhn.nauk

Effective devices for the centrifugal dispersion of liquids.
Khim.mashinostr. no.5:4-6 S-O '63. (MIRA 16:10)

GANZ, S.N.; KUZNETSOV, I.Ye.

Removal of hydrogen sulfide in hollow even-flow absorbers with a centrifuge volumetric sprayer. Koks i khim. no.9:37-42 '63. (MIRA 16:9)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Coke-oven gas) (Hydrogen sulfide)

GANZ, S.N.; KUZNETSOV, I.Ye.

Rate of absorption of nitrogen oxides in a tubular equiflow tower equipped with a centrifugal volume atomizer. Trudy DKHTI no.16:3-15 '63.

Alkaline absorption of nitrogen oxides in a tubular equiflow tower equipped with a centrifugal volume atomizer. Ibid.:17-26
(MIRA 17:2)

GANZ, S.N.; KUZNETSOV, I.Ye.

Rate of absorption of nitrogen oxides in tubular towers with centrifugal volume sprayers. Zhur. prikl. khim. 36 no.8: 1686-1692 Ag '63.

Alkaline absorption of nitrogen oxides in a tubular tower with a centrifugal volume sprayer and evenly distributed flow. 1693-1697 (MIRA 16:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

GANZ, S.N.; KUZNETSOV, I.Ye.

Calculation of hollow uniflow towers equipped with centrifugal atomizers. Izv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.1:151-154 '65. (MIRA 18:6)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni Dzerzhinskogo, kafedra tekhnologii neorganicheskikh veshchestv.

L 6387-66

ACC NR: AP5026743 SOURCE CODE: UR/0286/65/000/017/0018/0018

INVENTOR: Ganz, S. N.; Kuznetsov, I. Ye.; Vilesov, G. I.; Dobrovol'skiy, Ye. I.; Glozman, L. P.; Kuz', N. P.

ORG: none

TITLE: A method for reducing the tendency to caking in ammonium nitrate. Class 16, No. 174195

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 18

TOPIC TAGS: fertilizer, ammonium compound, nitrate, manganese, zinc

ABSTRACT: This Author's Certificate introduces a method for reducing the tendency to caking in ammonium nitrate by treating it with a powdered material. A more effective fertilizer is produced by using a charge containing manganese silt and waste from white zinc shops.

UDC: 631.842.4

SUB CODE: GC/ SUBM DATE: 12Mar64/ ORIG REF: 000/ OTH REF: 000

Card 1/1

KUZNETSOV, K.A.

One- and two-way rod pumps. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. no.6:43-47 '62. (MIRA 15:7)
(Pumping machinery)

GERBACH, Vasiliy Vasil'yevich; KUZNETSOV, Konstantin Alekseyevich; LIVSHITS, Lev Zakharovich; PLYASUNOV, Vladimir Ivanovich; KONSTANTINOV, A.P., kand.ist.nauk, obshchiy red.; KAZAROV, Yu.S., red.; FRUMKIN, P.S., tekhn.red.

[Workers of the Baltic Factory in three revolutions] Rabochie-Baltiitsy v trekh revoliutsiiakh. Pod obshchei red. A.P.Konstantinova. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1959. 146 p. (MIRA 12:5)
(Leningrad--Shipbuilding workers)

KUZNETSOV, K.A., inzhener, laureat Stalinskoy premii.

Tunneling with mechanized shields. Mekh.trud.rab.8 no.1:19-22 Ja-F '54. (MLRA 7:2)
(Mining machinery)

AUTHOR: Kuznetsov, K.A., Corr.Member,ASiA USSR, Head SOV/97-58-8-4/13

TITLE: Use of Pre-cast Reinforced Concrete Segmental Lining for Tunnels of the Leningrad Underground Railway (Vnedreniye sbornykh zhelezobetonnykh obdelok pri sooruzhenii tonneley Leningradskogo metropolitena)

PERIODICAL: Beton i Zhelezobeton, 1958, Nr 8, pp 293 - 298 (USSR)

ABSTRACT: Experience gained from the Leningrad Underground showed that pre-cast reinforced concrete and concrete constructions could be used with advantage for forming underground tubes. Saving in steel amounts to 85% and reduction in cost is 30%. Figure 1 illustrates underground tube 5.5 m in diameter, formed from reinforced concrete segments. Table 1 gives data on the use of pre-cast reinforced concrete in the construction of the Leningrad Underground. Figure 2 shows details of the standard reinforced concrete segment. The standard ring consists of 7 normal segments, 2 abutting and 1 closing segment. Each normal segment consists of 2 ribs, 150 mm wide, height 20 cm, and 5 cross-ribs. The overall thickness is according to the diameter 60 or 80 mm. To ensure water non-permeability, high-quality concrete Mark 600 was used. Table 2 gives comparative values for tubes constructed from reinforced concrete and cast iron

Card1/4

Use of Pre-cast Reinforced Concrete Segmental Lining for Tunnels of the Leningrad Underground Railway

units. Tests carried out by LIIZhT Laboratory in conjunction with Lenmetrostroy showed that the stiff concrete mix should have water/cement ratio of 0.28-0.3 and 500 kg/m^3 of cement when washed aggregate up to 30 mm is used. The segments are manufactured by continuous flow production on installations designed by VNIISTROMMASh, manufactured by the Lenmetrostroy factory. The VNIISTROMMASh has two production lines with a capacity of 140 segments/24-hour shift. A detailed description of various phases of production is given. Figure 3 illustrates the workshop for curing reinforced concrete segments. Figure 4 - stand for investigation of tubes with regard to strength and crack formations and Table 3 gives values of tests carried out on these tubes. The water non-permeability of these units was investigated by the Lenmetrostroy in conjunction with LIIZhT. Conclusions arrived at after various tests are given in detail. The Lenmetstroy, together with VNIISTROMMASh are working on the design of a new vibrating table with variable rate of vibration and amplitudes using an electromagnetic vibrator.

Tube units tested under the pressure of 5 atm did not show any water permeability. This year, the Lenmetstroy, together with the Department for Building Materials and LIIZhT Laboratory, are investigating segments made from concrete with additives of ferric chloride and aluminium chloride and also the application of tar and other impregnations to the internal surfaces. These applications were prepared by TsNIIS of Mintransstroy and LIIZhT. The Lenmetstroy, with the research institutes of Leningrad (LIIZhT, VNIISTROMMASh, Lenmetroproyekt, LISI) are working on developments to improve the technique of the construction of underground tubes. Figure 5 illustrates reinforcement for segment of 5.5 m diameter. The most promising type of reinforcement appears to be of cast-iron Mark VCh 40-10 (GOST 7293-54) (Figures 6-8). On this problem of cast-iron reinforcement, the following institutes collaborated: Lenmetrostroy, Lenmetroproyekt, LISI and Leningradskiy filial akademii stroitel'stva i arkhitektury SSSR (The Leningrad Branch of the Academy for Building and Architecture of the USSR). The Lenmetrostroy and LIIZhT are carrying out

Use of Pre-cast Reinforced Concrete Segmental Lining for Tunnels of the Leningrad Underground Railway

experiments with the use of silica cement. The strength of such cement is 600 kg/cm^2. Further, the LIIZhT is investigating the effect of the stray currents on the electro-corrosion of steel reinforcement in concrete. There are 8 figures and 3 tables.

ASSOCIATION: ASiA SSSR; Lenmetrostroy

KUZNETSOV, K.A.

Constructing tunnels of the Leningrad subway under the Neva River. (MIRA 11:7)
Transp. stroi. 8 no. 7:4-9 Jl '58.

1. Nachal'nik Lenmetrostroya, chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(Leningrad--Subways)
(Tunneling)

KUZNETSOV, K.A.; RAYNUS, O.S., kand.tekhn.nauk

Cast-iron cages for reinforcing concrete structures. Bet.i zhel.-bet. no.12:564-566 D '60. (MIRA 13:11)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury (for Kuznetsov).

(Reinforced concrete)

KUZNETSOV, K.A.

GANTMAN, S.A.; KUZNETSOV, K.A.

Selecting the method of machining on automatic turret lathes. (MIRA 10:11)
Priborostroenie no.10:28-30 O '57.
(Turning)

SOV/146-58-4-19/22

25(1)

AUTHORS: Gantman, S.A., Candidate of Technical Sciences, and Kuznetsov, K.A., Engineer

TITLE: The Selection of the Shape of Center Punch Marks for Drilling on Preliminary Punched Marks

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1958, Nr 4, pp 127-133 (USSR)

ABSTRACT: In instrument building, drilling of holes in parts of a thickness of less than 5 mm with preliminary marking in special presses found a wide-spread application. The shapes of the marks applied in plant practice and the drilling systems are shown in Figure 1. One of the principle factors influencing the accuracy of the location of the hole during drilling on preliminary marking is the magnitude of drill axis shift in regard to the mark axis during the initial motion of the drill. When using multiple drill presses, the centering operation is performed automatically. However, when drilling a small number of holes manually, the preliminary marking is of great importance, since it provides the

Card 1/2

The Selection of the Shape of Center Punch Marks for Drilling on Preliminary Punched Marks

centering of the drill at the proper location. Based on the experience of the Penzenskiy chasovoy zavod (Penza Watch Plant), the author recommends a center punch as shown in Figure 3. This punch has a tapered point and the tip is ground at an angle of 80-90 degrees. In case the hole to be drilled is close to the border of the part, or in the immediate vicinity of another hole, the author recommends a center punch point shaped as shown in Figure 1-1. There are 3 diagrams, 1 graph, 4 tables and 2 Soviet references.

ASSOCIATION: Penzenskiy industrial'nyy institut (Penza Industrial Institute)

SUBMITTED: November 8, 1957

Kuznetsov, K.A.

PHASE I BOOK EXPLOITATION SOV/3899

Kompleksnaya mekhanizatsiya i avtomatizatsiya proizvodstva; iz opyta zavodov Penzenskogo sovnarkhoza (Overall Industrial Mechanization and Automation; From Experience of Factories Under the Penza Council of the National Economy) [Penza] Penzenskoye knizhnoye izd-vo, 1959. 230 p. Errata slip inserted. 2,000 copies printed.

Ed.: V. Tsar'kov; Tech. Ed.: Ye. Voronkova.

PURPOSE: This collection of articles is intended for the general reader interested in the mechanization and automation of machine-tool production

COVERAGE: The efforts of industrial workers of the Penza district to fulfill ahead of time the objectives set forth in the Seven Year Plan are discussed in these 11 articles. The need for complete automation in the production of machine tools and instruments is strongly emphasized. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

VK/rem/cep
8-11-60

Card 3/5

(11)

28(5)

AUTHORS: Gantman, S. A., Candidate of Technical Sciences, Kuznetsov, K. A., Engineer

SOV/119-59-1-12/20

TITLE: More Exact Shapes of Turned Parts (Povysheniye tochnosti formy obtachivayemykh detaley)

PERIODICAL: Priborostroyeniye, 1959, Nr 1, pp 22-23 (USSR)

ABSTRACT: The degree of exactitude of the shape of turned parts depends on many factors, above all, however, on the geometrical accuracy of the lathe. The error of non-parallelism of the axis of the spindle and the axis of the shell of a turret lathe may be reduced for example by applying the cutting tool under a certain angle α to the horizontal. The angle α can be computed from the equation $\alpha = \text{arctg}\frac{\Delta_1}{\Delta_2}$. Δ_1, Δ_2 are the deviation in the horizontal and vertical plane. In case that the piece to be worked is easily deformable the effect of elastic deformation of the lathe piece may be eliminated when the tool is applied to an angle α_1 opposite to the horizontal direction. A corresponding formula is derived for the determination of the angle α_1.

Card 1/2

If the inequation $a_2 \leq \frac{\Delta_1}{\cos\varphi}$ is not valid (a_2 = summation error which takes into account the elastic and temperature deformation of the piece to be worked and the wear of the tool) the lathe tool must be adjusted under an angle of 45° to the horizontal plane; this must be done in such a way that the errors Δ_1, Δ_2 are positive. There are 2 figures.

S/117/61/000/001/002/013
A004/A001

AUTHOR: Kuznetsov, K. A.

TITLE: The Gang Stamping of Parts on Automatic Rotor Lines

PERIODICAL: Mashinostroitel', 1961, No. 1, pp. 5-7

TEXT: The author describes an automatic production line for the manufacture of parts whose technological production process includes many operations of different kinds, so that they cannot be produced by blanking dies of subsequent or simultaneous action on ordinary presses. One of the chief reasons, rendering the automation of such stamping processes difficult, is the fact that the oriented feed of these parts to the presses would require special orientation and conveying installations, the handling of which would be connected with great difficulties. The different parts shown in Figure 1 are subjected to cold stamping by the gang method on the automatic rotor line. Then they are divided into different groups depending on the kind of subsequent operation they have to undergo, i. e. parts being subjected to drilling operations are assembled in one drilling gang, parts requiring milling are assembled in one milling gang etc. Punching and abrasive polishing of the blanks is also effected in the line since these operations are

Card 1/5

The Gang Stamping of Parts on Automatic Rotor Lines

rather labor-consuming. Besides machining operations, the line carries out checking of holes and basic parameters. Figure 2 shows the layout of an automatic rotor line.

Figure 2:
1) Synchronizer; 2) hydromechanical rotors; 3) mechanical rotor; 4) vibration hopper; 5) conveying rotor; 6) photo-check; 7) discharge block; 8) electromagnet; 9) discharge chute.

The line includes three hydromechanical rotors, the working drives being effected

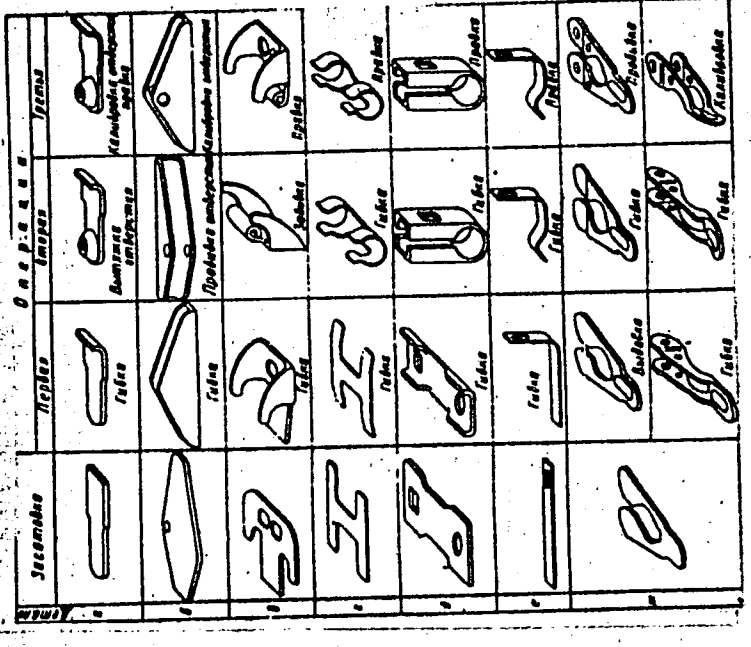


Figure 1:

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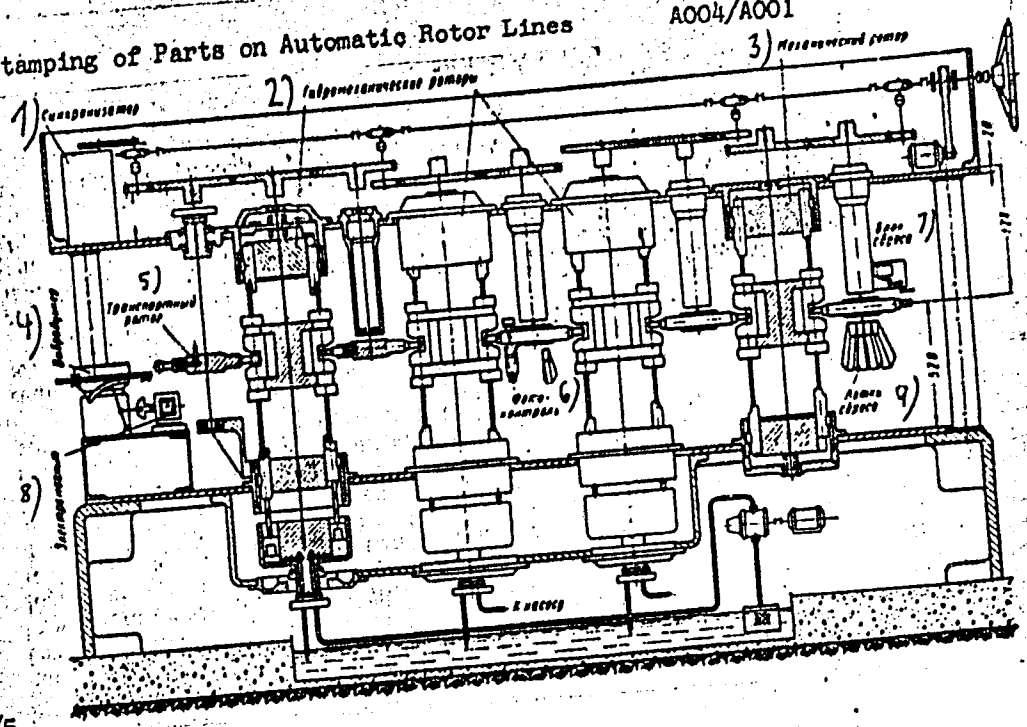
The Gang Stamping of Parts on Automatic Rotor Lines

Figure 2:



Card 3/5

The Gang Stamping of Parts on Automatic Rotor Lines

hydraulically, the others mechanically, and one mechanical control rotor. Parts for processing are supplied to these rotors by five conveying rotors. In the third conveying rotor a photo-check is incorporated, checking the presence of holes in the part being machined. Some parts are turned through 90° in the second and third conveying rotor. The positions of each conveying rotor are equipped with various receiving units while the working rotors are provided with different tool blocks. On the fifth conveying rotor the different parts machined on the line are discharged into their respective containers. The synchronizer actuates any of the discharge electromagnets at that moment when the part, being placed in the corresponding positions of the fifth conveying rotor, is passing the respective receiving chute. The synchronizer, the working and conveying rotors are driven by a common shaft through reducers. The shaft is located above the top plate. The total number of parts being machined on the line during one year amounts to 21.6 million pieces. This means that the rotor line has a productivity of 120 pieces/minute on each position. The working and conveying rotors have eight positions. Each position of the line can yield 2.7 million parts annually. All units of the line can be changed rapidly without stopping the line. To produce 21.6 different items per year 24 standard presses are necessary. The floor space taken up by these presses amounts to 120 m^2, while the automatic

Card 4/5