

PEN'KOV, P.M., inzh., nauchnyy red.; BORUSHMOY, I.V., red.; ALEKSEYEVA,
T.V., tekhn. red.

[Machine tools; a catalog]Metallorazhushchie stanki; katalog.
Moskva, 1962. 214 p. (MIRA 16:3)

1. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii po
avtomatizatsii i mashinostroyeniyu.
(Machine tools--Catalogs)

AYZENSHTADT, L.A.; PEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.;
KRIMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk;
MERPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.;
CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN,
B.F.; MONAKHOV, G.A., kand.tekhn.nauk; MOROZOV, I.I.;
MUSHTAYEV, A.F.; OGNEV, N.N.; PALEY, M.B., kand. tekhn.
nauk; FURMAN, D.B.; LIVSHITS, A.L., kand.tekhn.nauk;MECHETNER,
B.Kh.;SOSENKO,A.B;AVDULOV, A.N.; LEVIN, A.A., kand.tekhn.
nauk; YAKOBSON, M.O., doktor tekhn.nauk; MAYOROVA, E.A.,
kand.tekhn.nauk; MOROZOVA, Ye.M.; ZUSMAN, V.G., kand.tekhn.
nauk; NAYDIS, V.A., kand.tekhn.nauk; VLADZIYEVSKIY, A.P., prof.,
doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, R.I., red.;
CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L.,
tekhn. red.

[Machine-tool industry in capitalist countries] Stanko-
stroenie v kapitalisticheskikh stranakh. Pod red. i s pre-
disl. A.P.Vladzievskogo. Moskva, 1962. 822 p. (MIRA 15:7)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy in-
formatsii mashinostroyeniya. 2. Eksperimental'nyy nauchno-
issledovatel'skiy institut metallovezhushchikh stankov
(for Vladziyevskiy, Belogur-Yasnovskaya, Chigareva, Asval'dov,
Kogan).

(Machine-tool industry)

FEN'KOV, P.M.

Machine-tool industry in the U.S.S.R. Stan. 1 instr. 35
no.3:8-17 Mr'64. (MIRA 17:5)

1. Eksperimental'nyy nauchno-issledovatel'skiy institut
metallorezhushchikh stankov (ENIMS), Moskva..

ATANASOV, Atanas, st.konstruktor; PENKOV, Penko, st.ikonomist

Technical bases of working standards, an important factor for
the increase of labor productivity. Tekh delo 13 no.431:2
16 Je '62.

STOROZHEV, M.A., inzh.; PEH'KOV, R.F., inzh.

Effect of repeated heat treatments on the properties of
the ML5 alloy. Lit. proizv. no.1:46 Ja '66. (MIRA 19:1)

PEN'KOV, R. M., Candidate Tech Sci (diss) -- "Investigation of the gear contacts formed by the flexion method using spherical, cylindrical, and toroid surfaces". Moscow, 1959. 16 pp (Min Higher Educ USSR, Moscow Machine-Tool and Tool Inst im I. V. Stalin), 150 copies (KL, No 23, 1959, 167)

PENKOV, Sava

Bulgarian-Greek relations in the frame of peaceful coexistence among
the Balkan countries. Spisanie BAN 6 no.1:72-79 '61.
(EEAI 10:9/10)

(Bulgaria--Foreign relations)
(Greece--Foreign relations)

PEN'KOV, S.I.; MITINSKIY, A.N., redaktor; USOVA, A.M., tekhnicheskiy
redaktor

[Computation of allowable stresses in marine machine-building]

Raschet dopuskaemykh napriazhenii v sudovom mashinostroenii.

[Leningrad] Gos. izd-vo sudostroitel'noi lit-ry, 1951. 253 p.

(Strains and stresses)

(MLRA 8:7)

(Marine engines)

(25)2

PHASE I BOOK EXPLOITATION

SOV/1489

Pen'kov, S.I.

Raschet dopuskayemykh napryazheniy v sudovom mashinostroyeni (Calculation of Allowable Stresses for Ship Machinery) [Leningrad] Sudpromgiz, 1951. 253 p., 7,000 copies printed.

Resp. Ed.: A.N. Mitinskiy; Tech. Ed.: A.M. Usova.

PURPOSE: This book is intended for use as a practical handbook for designers.

COVERAGE: The book is based on the experience of the author, a design engineer in the shipbuilding industry. It presents information necessary to a designer on the basic types of loads, on mechanical properties of materials and on the design, production and operational factors affecting the strength of finished machine parts. Systematized directions are also given on the determination of general safety factors and on the selection of particular ones. The method of determining allowable stresses and their application in strength calculations is presented. A considerable part of the book is devoted to design examples, mainly in the field of ship machinery. The author thanks Professor S.V. Serensen, member of the Academy of Sciences, UkrSSR, for his help in preparing the book. There are 68 references, of which 59 are Soviet, 7 German, and 2 English.

Card 1/5

PENKOV, S.N.; RYUMTSEV, Ye.I.

Birefringence of polystyrene solution in CCl_4 near the inversion point.
Vysokom.sped. 6 no.2:364 F '64. (MIRA 17:2)

PEN'KOV, S.N.

Birefringence of a liquid in the dynamic field of stress waves.
Opt. i spektr. 1 no. 1:77-84 Ny '56. (MLRA 9:11)
(Castor oil--Optical properties) (Refraction, Double)

PEN'KOV, S.N.; STEPANENKO, V.Z.

Photoelectric compensation in measurements of birefringence in a flux.
Opt. i spektr. 14 no.1:156-158 Ja '63. (MIRA 16:5)
(Refraction, Double) (Photoelectricity)

PEN'KOV, S.N.

Method for measuring slight optical anisotropy. Opt. i spektr.
10 no.6:787-791 Je '61. (MIRA 14:8)
(Photoelectric measurements) (Optical measurements)

PEN'KOV, S.N.

Relaxation of the optical anisotropy of polymeric solutions in
the audible frequency range. Vest. LGU 19 no.16:84-87 '64.
(MIRA 17:11)

PEN'KOV, S.N.

Possibility of measuring the optical anisotropy of liquids in
the field of a sound velocity gradient. Opt.i spektr. 10
no.5:653-656 My '61. (MIRA 14:8)
(Photoelectric measurements) (Sound---Speed)
(Liquids---Optical properties)

PENKOV, Sava

Peaceful coexistence among the Balkan States with different
social and economic structure. Nauch zhivot 6 no.187-9
Mr-Ap '63.

COUNTRY : Bulgaria
 SUBJECT : Cultivated Plants. Fruits. Berries. Subs. Veg.
 JOURNALS : Ref Zhur-Biologiya, No. 5, 1959, No. 20479
 Author : Palashev, Ivan; Penkov, Toncho
 INST. : --
 TITLE : Walnut Crops in Polyakovgradskiy Rayon.

ORIG. PUB.: Gorsko stopanstvo, 1958, 14, No. 3, 20-24

ABSTRACT : It is planned to plant six million walnut trees in Bulgaria in ten years. Polyakovgrad district is highly suited for this purpose, where up to 20 kg of nuts are produced from a single tree. This tree is chiefly reproduced by seed.

CARD: 1/1

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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239920015

1582. AETIOLOGY OF AMENORRHOEA IN UROGENITAL FISTULAS (Penkov T. V. - AKUSH. I GINEK. 1958, 1 (78-85) Tables 1 illus. 4 text) - Penkov T. V. - AKUSH. I GINEK. 1958, 1 (78-85) Tables 1 illus. 4
 In 58 (45.67%) out of 127 patients with urogenital fistulas, amenorrhoea was present; restoration of the menstrual function took place only with the subsidence of inflammatory changes. These inflammatory changes proved to be due to intestinal bacteria, association of Proteus vulgaris with Enterococcus, occurring in 76.6% of cases. A cystic degeneration of ovaries was observed in 2 patients who died after the operation and in one during caesarean section. It was assumed that this degeneration is caused by the toxins of Proteus vulgaris and Enterococcus on the follicular apparatus. This has been experimentally proved on female guinea-pigs - administration of filtrates of broth and urinary cultures of the above microbes caused abnormally of the oestral cycle, due to degenerative changes of the follicular apparatus, consisting in accelerated destruction of primordial developing and mature follicles, which underwent cystic degeneration prior to the formation of a corpus luteum. Thus, if in patients with urogenital fistulas amenorrhoea is not provoked by general diseases, it should be considered as due to intoxication with the toxins of Proteus vulgaris and Enterococcus on the follicular apparatus.

PEN'KOV, V.

7838. PEN'KOV, V.---Opyt raboty putevogo obkhodchika anzherskoy distantсии puti T. Frantseva, V. A. Novosibirsk, Tekhn. Otd. Dorogi i dornito, 1954. 6s 20 sm. (mp's sssr) tomskaya zh. D. obmen opytom. Inform.--Tekhn. Pis'mo. No. 19-66) 300 ekz. b. ts.--sost. ukazan v vyp. dan.--(55-812 zh) 625.17 st

SO: Knizhnaya Letopis', Vol. 7, 1955

PEN'KOV, V.D.

The K-1040 flour truck. Biul.tekh.-ekon.inform.Gos.nauch.-izel.
inst.nauch.i tekh.inform. 16 no.5:50-51'63. (MIRA 16:7)
(Flour-Transportation)

CHAKUROV, Ag., dotsent; PETROV, A.; MILANOV, A.; PENKOV, V.; CHERVENIAKOV,
V.; BOTEV, Z.; DOZOV, N.

Results of 2300 appendectomies. Khirurgia (Sofia) 17
no.3:311-320 '64.

1. Republika-ska bolnitsa Ministerstvo na narodnoto zdrave i
sotsialnite grizhni.

PEN'KOV, V.D.

Twenty-four ton capacity cement motortruck. Biul.tekh.-ekon.-
inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. no.6:76-77
'62. (MIRA 15:7)

(Cement--Transportation)

VELLER, M.A.; KUSHMAN, G.I.; PEN'KOV, V.M.

Using artificial ventilation to dry fine peat in caravans. Izdy
Kal. torf. inst. no.13:148-153 '63. (MIRA 17:12)

FENKOV, V.M.

"Influence of Technological Factors on the Strength of Seams during the Pressing of Pipes."

report presented at the 13th Scientific Technical Conference of the Kuybyshev Aviation Institute, March 1959.

100000
SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya. Svoynyy tom, 1981, 1981

"APPROVED FOR RELEASE: 06/15/2000

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CIA-RDP86-00513R001239920015-9"

PEN'KOV, V.V.; POVAROV, A.P.

Devices for the mechanization of linear measurements. *Izm.tekh.*
no.5:8-9 My '61. (MIRA 14:5)
(Measuring instruments)

PEN'KOV, V.V.

Device for measuring the size of wire faceting. Izv. tekhn.
no.9:15 S '63. (MIRA 17:1)

PEN'KOV, V.V.

Seminar on mensuration and measuring instruments. Izv. tekhn. no. 5:64
My '61. (MIRA 14:5)

(Mensuration)

PEN'KOV, V.V.; ANTYUFYEVA, Z.K.

Using stepped gauge blocks in checking readings of the MIS-11 twin
microscope. Izv.tekh. no.6:7-8 Je '61. (MIRA 14:5)
(Microscope--Testing)

PEN'KOV V.V.

AUTHOR: Pen'kov, V.V.

115-5-10/44

TITLE: Measuring the Face Angle and the Primary Clearance Angle of Fine-Tooth Milling Cutters (Izmereniye perednego i zadnego uglov melkozubykh frez)

PERIODICAL: "Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, p 21 (USSR)

ABSTRACT: A method for measuring the angles of fine milling cutters, with straight or helical teeth, through the use of a measuring microscope is proposed. The calculations involved are illustrated by three sketches.

AVAILABLE: Library of Congress

Card 1/1

PEN'KOV, V.V.

Measuring the front and rear angles of fine-toothed cutting tools.

Izm.tekh. no.5:21 S-0 '57.

(MLRA 10:9)

(Cutting tools)

(Goniometry)

BARABLINA, G.V.; GRISHCHENKO, N.V.; PEN'KOV, V.Ya.; SEL'YUKOV, V.P.;
POPOV, V.D.

Efficiency of the group-bonus wage system for integrated brigades
in stopes. Nauch. trudy KNIUI no.14:427-438 '64.

Ways of improving the overall organization of work in Karaganda
Basin stopes. Ibid.:455-464 (MIRA 18:4)

ACC NR: AP6033299

SOURCE CODE: UR/0107/66/000/010/0045/0048

AUTHOR: Pen'kova, L.; Kocherginskiy, M.; Apirina, Ye.; Mendzheritskiy, E.

ORG: none

TITLE: Electrochemical current sources and their potentialities

SOURCE: Radio, no. 10, 1966, 45-48

TOPIC TAGS: storage battery, dry cell, electrochemistry

ABSTRACT: Three recently developed types of electrochemical current sources are described: 1. A zinc-manganese dioxide battery with salt electrolyte (MTs), hermitized. The positive electrode consists of a mixture of manganese dioxide and carbon materials; the negative electrode is formed by a zinc cup. The battery operates efficiently in a temperature range of -40°C — $+60^{\circ}\text{C}$; and may be stored for several years. It is manufactured in 12 sizes. 2. Air-zinc (VTs) and zinc-manganese (MTs) batteries with an alkaline electrolyte in a vinyl plastic container. The negative electrode consists of zinc suspended in an electrolyte; the positive is made from activated carbon, acetylene black, and manganese dioxide moistened with an alkali solution. As compared with nickel-cadmium batteries, the VTs and MTs types have a much higher initial capacity and lower cost. The batteries may be stored for 12 months, and will operate in tropical climates. 3. Zinc-mercury batteries (RTs) have a high specific power, stable voltage, high reliability, and high mechanical strength. The electrolyte consists of concentrated caustic potash and zinc oxide.

Card 1/2

ACC NR: AP6033299

Twenty variants of this type are produced, differing in size and capacity. Parameters of all three types of battery exceed established international and foreign standards. Orig. art. has: 10 figures and 4 tables.

SUB CODE: 10, 07/ SUBM DATE: none/

Card 2/2

ACC NR: AP6032490

SOURCE CODE: UR/0413/66/000/017/0030/0030

INVENTOR: Kocherginskiy, M. D.; Kalachev, S. L.; Pen'kova, L. F.;
Nabiullina, M. F.

ORG: none

TITLE: Air-depolarized zinc galvanic cell. Class 21, No. 185369
[announced by All-Union Scientific Research Institute of Current
Sources (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov
toka)]

SOURCE: Izobretaniya, promyshlennyye obraztsy, tovarnyye znaki,
no. 17, 1966, 30

TOPIC TAGS: galvanic cell, storage battery

ABSTRACT: An Author Certificate has been issued for an air-depolarized
zinc galvanic cell which is assembled from series-connected disk
elements and has an alkaline thickened electrolyte placed in a plastic
container with a hermetically sealed cover (see Fig. 1). To simplify
construction and extend cell life, a projection on the cover overlaps

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UDC: . 621.352.7

ACC NR: AP6032490

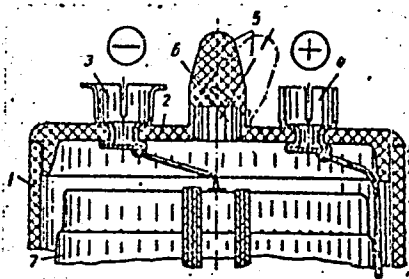


Fig. 1. Air-depolarized zinc galvanic cell

1 - Container; 2 - cover; 3 and 4 - terminals; 5 - projection; 6 - air vent; 7 - cell elements.

the air vent. This projection is removed when the cell is operating and is used as a plug when the cell is not in use. Orig. art. has: 1 figure.

SUB CODE: 10/ SUBM DATE: 13Sep65/

Card 2/2

ACC NR: AP6021819

SOURCE CODE: UR/0413/66/000/012/0111/0111

INVENTOR: Nabiullin, F. Kh.; Lidorenko, N. G.; Pen'kova, L. F.; Gladkov, M. S.;
Gertsik, Ye. M.; Buzova, Z. M.

ORG: None

TITLE: A method for producing spherical solar energy concentrators. Class 46,
No. 182962

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 111

TOPIC TAGS: solar energy, epoxy plastic, geometric form

ABSTRACT: This Author's Certificate introduces: 1. A method for producing spherical solar energy concentrators. This method consists of forming the solar energy concentrator elements from solidifying materials such as epoxy resins and plating the working surface with a mirror-like metallic coating. Production is simplified by placing the solidifying materials between synthetic films clamped together by a frame on a dead base. One of these films is metallized and the cavity between the base and the film is compressed by air to give the proper shape to the concentrator. 2. A modification of this process in which the concentrator is reinforced by placing material such as glass cloth or metallic rings along the edge of the concentrator between the films. 3. A modification of this process in which the metallized film is removed when necessary after the concentrator base has been set.

SUB CODE: 13, 11/ SUBM DATE: 08Dec62

Card 1/1

UDC; 535,872.002,2:621.472

ACC NR: AP6034026

SOURCE CODE: UR/0080/66/039/010/2236/2243

AUTHOR: Gordeyeva, L. Ya.; Kocherginskiy, M. D.; Pen'kova, L. F.

ORG: none

TITLE: On minimizing self-dissolution of zinc electrode in zinc-air cells with alkali electrolyte

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 10, 1966, 2236-2243

TOPIC TAGS: electrolytic cell, battery component, zinc air cell, zinc electrode, dry cell, *electrode design, zinc*

ABSTRACT: Specifications concerning purity, particle size, and amalgamation of zinc powder and composition of the paste for the zinc electrode, also concerning the purity of the alkali electrolyte, were developed as a result of experiments which were described. The purpose of the experiments was to minimize the rate of dissolution of zinc at the electrolyte-air interface in the stored or operating zinc-air battery of the "VOSTOK" type, which was developed in the past few years for radio power supply. The specifications developed were checked in discharge tests of the sealed individual cells and battery packs over a period of 1200 hr at a rate of 4 hr per day. Both the plate and filament batteries were tested, freshly made or stored for 15 months. The new battery pack of the "VOSTOK" type is 3.5 times lighter and

Card 1/2

UDC: 541.136

ACC NR: AP6034026

3 times smaller in volume than the serial pack of the zinc-salt-manganese system of equal capacity. Thanks for consultations were expressed to Professor Z. A. Iofa. Orig. art. has: 3 figures, 3 tables, and 6 formulas. [WA-100]

SUB CODE: 10/ SUBM DATE: 26Jul64/ ORIG REF: 016/

Card 2/2

ZHULIN, V.M.; PEN'KOVA, M.P.; KONKIN, A.A.; GONIKBERG, M.G.

Polymerization of α -methylacrolein under high pressures.
Izv. AN SSSR. Ser. khim. no.8:1497-1500 Ag '64.

(MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR
i Moskovskiy tekstil'nyy institut.

PEN'KOVA, Ye.

At the exhibition of store equipment. Sov. torg. 37 no.11:3-41
N '63. (MIRA 16:12)

RYCHIN, Sergey Aleksandrovich; PALLER, A.M., retsenzent; TRESHKOV,
K.G., retsenzent; MAKSIMOV, A.M., nauchn. red.; PENOVA,
Ye.M., red.

[Pneumatic tools in shipbuilding] Pnevmaticheskie instru-
menty v sudostroenii. Leningrad, Izd-vo "Sudostroenie,"
1964. 220 p. (MIRA 17:4)

LIPCHENKO, V.D.; SLESAREVA, T.A.; SHURSHIKOVA, P.A.; SHUL'MAN, D.I.;
SMIRNOV, Ye.V.; KONOVALOVA, N.A.; PEN'KOV, Ye., red.; LEBEDEV,
A., tekhn.red.

[Collection of exercises in calculating industrial production
costs] Sbornik uprazhnenii po kal'kulirovaniu sebestoimosti
promyshlennoi produktsii. Moskva, Gosfinizdat, 1959. 207 p.
(MIRA 12:11)

(Costs, Industrial)

PEN'KOV, Yefim Grigor'yevich; MEDVEDEVA, R., red.; LEBEDEV, A., tekhn.
red.

[Analysis of the financial and economic operations of artels
of producer's cooperatives] Analiz finansovo-khoziaistvennoi
deiatel'nosti artelei promyslovoi kooperatsii. Moskva, Gos-
finizdat, 1960. 125 p. (MIRA 13:11)
(Cooperative societies--Finance)

BELOUSOV, M.S., kand. ekon. nauk, dots.; VORONIN, M.G., kand. ekon. nauk; DUNDUKOV, G.S., kand. ekon. nauk, dots.; KAMYSHANOV, P.I., kand. ekon. nauk; KOLESOV, V.S.; KUPRIYENKO, A.N., kand. ekon. nauk; PEN'KOV, Ye.G., kand. ekon. nauk, dots.; SOLONEVICH, F.F., Primal uchastiye SMORODIN, M.B.; MUKHIN, N.A., retsenzent; FEDOTOV, G.N., retsenzent; STARCHAKOVA, I.I., red.; KIRAKOZOVA, N.Sh., red.; MEIRISH, D.M., tekhn. red.

[Accounting in commerce] Bukhgalterakii uchet v trgovle.
[By] M.S.Belousov i dr. Moskva, Gostorgizdat, 1963. 528 p.
(MIRA 17:1)

1. Prepodavateli kafedry bukhgalterskogo ucheta Moskovskogo instituta narodnogo khozyaystva im. G.V.Plekhanova (for Belousov, Voronin, Dundukov, Kamyshanov, Kolesov, Kupriyenko, Pen'kov, Solonevich). 2. Glavnyy bukhgalter Soyuz potrebitei'skikh obshchestv RSFSR (for Fedotov).

PENKOVA, A. M. kandidat meditsinskikh nauk

Mechanism of the action of immobilization. Ortop.travn. i protez.
17 no.6:142 N-D '56. (MLRA 10:2)

1. Iz kafedry obshchey khirurgii (zaveduyushchiy - professor A.N.
L'vov) Chelyabinskogo meditsinskogo instituta (direktor - professor
G.D.Obrastsov)
(MUSCLES)

11 AND 2ND ORDER

PROCESSES AND PROPERTIES INDEX

1

Potentiometric determination of cerium in steels.
 S. I. Malov, E. P. Pen'kova and A. S. Koroleva. *Zarod-
 shaya Lab.* 13, 319(30(1948)). Dissolve 0.5-1.0 g. of
 sample in HNO₃ + H₂SO₄ and evap. to fumes. Add H₂O,
 nearly neutralize the soln., and remove Ni, and most
 of the Cr and Mn by electrolysis with a Hg cathode.
 Oxidize the remaining Cr and Mn with persulfate + Ag⁺
 and ppt. the Ce and Ti with NH₄OH. Filter off, redissolve
 the ppt. in H₂SO₄, oxidize with persulfate and
 Ag⁺, and titrate potentiometrically.
 Make a correction for Mn
 sep. sample.

17 Nov 68
 E. P.
 Pen'kova

ASM. 5.1 A METALLURGICAL LITERATURE CLASSIFICATION

FROM DIVISION

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6.A.

Determination of phosphorus in steel and alloys containing titanium. E. P. Ien'kova, A. M. Dmitrieva, and P. Yu. Yakovlev. *Zhurnal Khim. Lab.* 10, 744-5(1950).—The interference of Ti with the P detn. can be eliminated as follows: Neutralize the acid soln. of the sample with NaOH, dil. with 200 ml. of hot 25% NaOH, boil 3-5 min., cool, dil. to 500 ml., filter, and take a 250-ml. aliquot of the filtrate. Make slightly acidic with HNO₃, treat with 25 ml. 6% FeCl₃, and ppt. with NH₄OH. Dissolve the washed ppt. in 50 ml. of 8 N HNO₃, heat with 15 ml. of 7.5% (NH₄)₂S₂O₈, boil to destroy the excess, and finish the P detn. conventionally by the colorimetric method. To det. P in TiO₂, fuse with Na₂O₂ in Fe crucibles at 600-700° and leach with water and continue as above. G. M. K.

7

CA

Determination of silicon in tungsten-niobium alloys and in ferrotungsten. E. P. Pen'kova and P. Ya. Yakovlev. *Zavodskaya Lab.* 16:1495-7(1950).--For detn. of Si in Nb-W alloys the complexing with oxalic acid gives satisfactory results (cf. *Metody Analiza Metallov*, Moscow, 1944) a gravimetric method with HF being used. Saturated NH_4 oxalate soln. (100 ml.) is sufficient for complexing the Nb and W content of a 1-g. sample. In ferrotungsten analysis the sample is best decompd. with 7-10 ml. H_3PO_4 (d. 1.7), 60 ml. concd. HCl, and 20 ml. HNO_3 (d. 1.4), followed by fuming with 20 ml. 1:1 H_2SO_4 , diln. with hot H_2O , filtration of silicic acid, washing with dil. HCl, dil. NH_4 carbonate, and water, and followed either by ignition per se (if under 1% Si) or with HF- H_2SO_4 (if over 1% Si). G. M. Kosol. 5051

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APPROVED FOR RELEASE: 06/15/2000

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PENKOVA, E. F.

E.F. Penkova and P.Ia. Iakovlev. Determination of silicon in tungsten-niobium and ferro-tungsten alloys. P. 1495

(Factory "Electrosteel")

SO: Factory Laboratory, No. 12, 1950

VESELOVSKIY, Iosif Aleksandrovich, zasl. deyatel' nauki RSFSR.
Prinimala uchastiye VESELOVSKAYA, M.A., kand. sel'khoz.
nauk; PENKOVA, G.A., red.

[Breeding and seed production of vegetables and fruit
crops] Seleksiia i semenovodstvo ovoshchnykh i plodo-
vykh kul'tur. Leningrad, Koles, 1965. 230 p.

(MIRA 18:7)

DENISOV, Petr Vasil'evich, kand. sel'khoz. nauk; STIKHIN, Mikhail
Filadel'fovich, kand. sel'khoz. nauk; PEI'KOVA, G.A., red.

[Winter rye and wheat in the non-Chernozem belt] Ozimaia
rozh' i pshenitsa v nechernozemnoi polose. Leningrad,
Kolos, 1965. 245 p. (MIRA 19:1)

SAPOZHNIKOV, Nikolay Arkad'yevich; PEN'KOVA, G.A., red.; BARANOVA,
L.G., tekhn. red.

[Biological principles underlying the tillage of Podzolic
soils] Biologicheskie osnovy obrabotki podzolistykh pochv.
Moskva, Sel'khozizdat, 1963. 290 p. (MIRA 17:3)

SMIRNOVA, Zoya Nikolayevna; PEN'KOVA, G.A., red.;

[Fodder lichens in the Far North of the U.S.S.R.; a
concise guide] Kormovye lishainiki Krainego Severa SSSR;
kratkii opredelitel'. Leningrad, Sel'khozizdat, 1962. 69 p.
(MIRA 17:3)

BOBROV, Ye.G.; BONDARTSEV, A.S.; BORISOVA, A.G.; VASIL'KOV, B.P.;
VASIL'CHENKO, I.T.; GOLUBKOVA, V.F.; GRUDZINSKAYA, I.A.;
YEGOROVA, T.V.; ZINOVA, A.D.; IVANINA, L.I.; LEONOVA, T.G.;
MATSENKO, A.Ye.; PIDOTTI, O.I.; POBEDIMOVA, Ye.G.; POLYAKOV,
P.P.; POYARKOVA, A.I.; SAVICH, V.P.; SIN'KOVA, G.M.; SMIRNOVA,
Z.N.; SMOL'YANINOVA, L.A.; FEDOROV, Al.A.; KHARADZE, A.L.;
TSVELEV, N.N.; SHISHKIN, B.K. [deceased]; FEN'KOVA, G.A., red.;
BARANOVA, L.G., tekhn. red.; FRIDMAN, Z.L., tekhn. red.

[Botanical atlas] Botanicheskii atlas. Moskva, Sel'khozizdat,
1963. 501 p. (MIRA 16:12)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Botany--Atlases)

VESELOVSKIY, Ioil' Aleksandrovich, prof., doktor sel'khoz. nauk;
VESELOVSKAYA, Mariya Aleksandrovna, kand. sel'khoz. nauk;
KOZHEVNIKOVA, Nataliya Nikolayevna, kand. sel'khoz. nauk;
PEN'KOVA, G.A., red.; BARANOVA, L.G., tekhn. red.

[Laboratory and field manual on the breeding and seed production of vegetable crops] Praktikum po selektsii i semenovodstvu oshchnykh kul'tur; dopushcheno upravleniem vysshego i srednego sel'skokhoziaistvennogo obrazovaniia Ministerstva sel'skogo khoziaistva SSSR v kachestve uchebnogo posobiia dlia pedoovoshchnykh institutov i fakul'tetov. Leningrad, Sel'khozizdat, 1963. 141 p. (MIRA 16:7)
(Vegetable breeding--Study and teaching)

L 355hh-65 EWT(a)
ACCESSION NR: AP5098188

S/0286/65/000/005/0065/0065

AUTHORS: Nabiullin, F. Kh.; Lidorenko, N. S.; Pen'kova, L. F.; Sladkov, M. S.; Gertsik, Ye. M.; Tamizhevskiy, B. V.; Buzova, Z. M.; Beshmensv, V. I.; Mar'in, B. V.

TITLE: Mirror base for concentrators of radiant energy. ²¹ Class 36, No. 168858

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 65

TOPIC TAGS: concentrator, radial energy, metal foil, mirror, aluminum, radiation energy

ABSTRACT: This Author Certificate introduces the application of metallic foil or a thin sheet, of, say, aluminum, as a mirror base for radiant energy concentrators produced by inflating (see Fig. 1 on the Enclosure). Orig. art. has: 1 figure.

ASSOCIATION: Vsesoyuznyy ordena trudovogo krasnogo znameni nauchno-issledovatel'skiy institut istochnikov toka (All-Union Order of Trudovoye Krasnoye Znameniye Scientific Research Institute of Current Generators)

SUBMITTED: 20 AUG 65

NO REF SOV: 000

OTHER: 000

Card 1/1

ACC NR: AP6034026

SOURCE CODE: UR/0080/66/039/010/2236/2243

AUTHOR: Gordeyeva, L. Ya.; Kocherginskiy, M. D.; Pen'kova, L. F.

ORG: none

TITLE: On minimizing self-dissolution of zinc electrode in zinc-air cells with alkali electrolyte 19

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 10, 1966, 2236-2243

TOPIC TAGS: electrolytic cell, battery component, zinc air cell, zinc electrode, dry cell, *electrode design, zinc*

ABSTRACT: Specifications concerning purity, particle size, and amalgamation of zinc powder and composition of the paste for the zinc electrode, also concerning the purity of the alkali electrolyte, were developed as a result of experiments which were described. The purpose of the experiments was to minimize the rate of dissolution of zinc at the electrolyte-air interface in the stored or operating zinc-air battery of the "VOSTOK" type, which was developed in the past few years for radio power supply. The specifications developed were checked in discharge tests of the sealed individual cells and battery packs over a period of 1200 hr at a rate of 4 hr per day. Both the plate and filament batteries were tested, freshly made or stored for 15 months. The new battery pack of the "VOSTOK" type is 3.5 times lighter and

Card 1/2

UDC: 541.136

ACC NR: AP6034026

3 times smaller in volume than the serial pack of the zinc-salt-manganese system of equal capacity. Thanks for consultations were expressed to Professor Z. A. Iofa. Orig. art. has: 3 figures, 3 tables, and 6 formulas. [WA-100]

SUB CODE: 10/ SUBM DATE: 26Jul64/ ORIG REF: 016/

Card 2/2

L 3167-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) RPL WW/EM

ACCESSION NR: AP5013978

UR/0183/65/000/003/0012/0015

677.745.3

AUTHOR: Pen'kova, M. P.

27
24
B

TITLE: Synthesis of copolymers acrylonitrile and 4β-vinylsulfonyl-2-aminoanisole

SOURCE: Khimicheskiye volokna, no. 3, 1965, 12-15

TOPIC TAGS: copolymer, copolymer viscosity, copolycondensation, polymer, acrylonitrile, acrylonitrile, polymer, vinyl plastic, synthesis property, synthetic fiber

ABSTRACT: The regularities in the synthesis of the fiber-forming copolymer acrylonitrile (AN) and 4β-vinylsulfonyl-2-aminoanisole (VSA) were investigated. The component combination proceeded in the methanol solution according to the radical polymerization method. Dinitrile of azoisobutyric acid initiated the copolymerization reaction which proceeded under argon. The study of the influence of the initial composition of the monomer mixture on the composition of the copolymer produced revealed that 1-3 mol % of VSA in the initial mixture caused a very slight difference in the end product composition. Its further increase enriched the AN due to its greater reaction capacity. At 25 mol % of VSA the solution viscosity dropped sharply. Relation of the copolymer yield to the

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ACCESSION NR: AP5013978

ENCLOSURE: 01

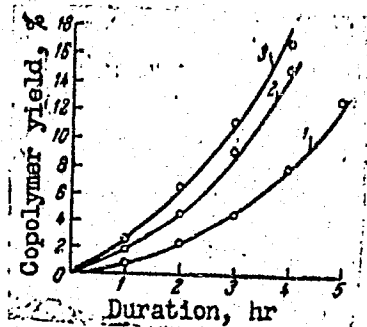


Fig. 1. The effect of the reaction time and quantity of the reaction initiator on the copolymer AN-VSA yield. 1,2,3- initiating substance (respectively): 0.5; 1.0; and 2.5% of the monomer weight.

Reaction conditions: monomer concentration- 30%; temperature- 60C; composition of the initial monomer mixture AN-VSA (respectively): 97.5 and 2.5 mol %

Card 3/4

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ACCESSION NR: AP5013978

ENCLOSURE: 02

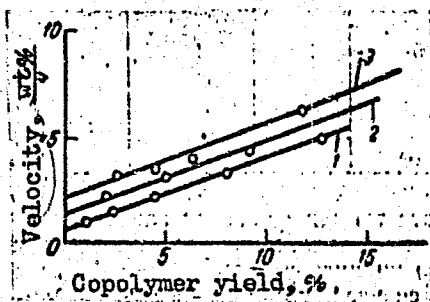


Fig. 2. Relation of reaction velocity to the yield of copolymer AN-VSA:

1,2,3- initiating substance: 0.5, 1.0 and 1.5% of the monomer weight.

Reaction conditions are the same as shown in Fig. 1

Card 4/4 md

L 21778-65

EPR(c)/EPR/FWP(4)/EPR(1)/EPR(1)

TITLE: Polymerization of a _____ at high pressures

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1964, pp. 1407-1411

TOPIC CLASS: _____

spectra showed all products

hence it was concluded that

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tion rate under the conditions of the investigation increased from 1.5 to 2.5

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nauk SSSR (Institute of Organic Chemistry, Academy of Sciences of the USSR),
tekstil'nyy institut (Moscow Textile Institute)

SUBMITTED 26 Dec 62

SP-62-00000000

Class 2, 3

GRUSHMAN, Roman Petrovich; LOBANOVA, K.I., inzh., retsenzent;
REZNIKOV, M.V., inzh., retsenzent; RAUSH, O.I., nauchn.
red.; PENOVA, Ye.M., red.; SHISHKOVA, L.M., tekhn.red.

[Ship insulation specialist] Sudovoi izolirovshchik. Le-
ningrad, Sudpromgiz, 1963. 149 p. (MIRA 17:3)

PENKOVA, V. F.

379. Photochemical determination of vanadium and titanium. B. E. Penkova, A. V. Chalkova and L. A. Nevdova. Elektroanal. Khim. Zhurn. Lab., 1956, 22 (8), 918. Vanadium is determined in steel containing Mo, Mn, Cr and Ti by the reaction with H_2O_2 . Titanium is determined by means of chromotropic acid. G. S. Shtim

PENKOVA, E. F.

B. T. R.
June 1954
Chemistry-Analytical and Inorganic

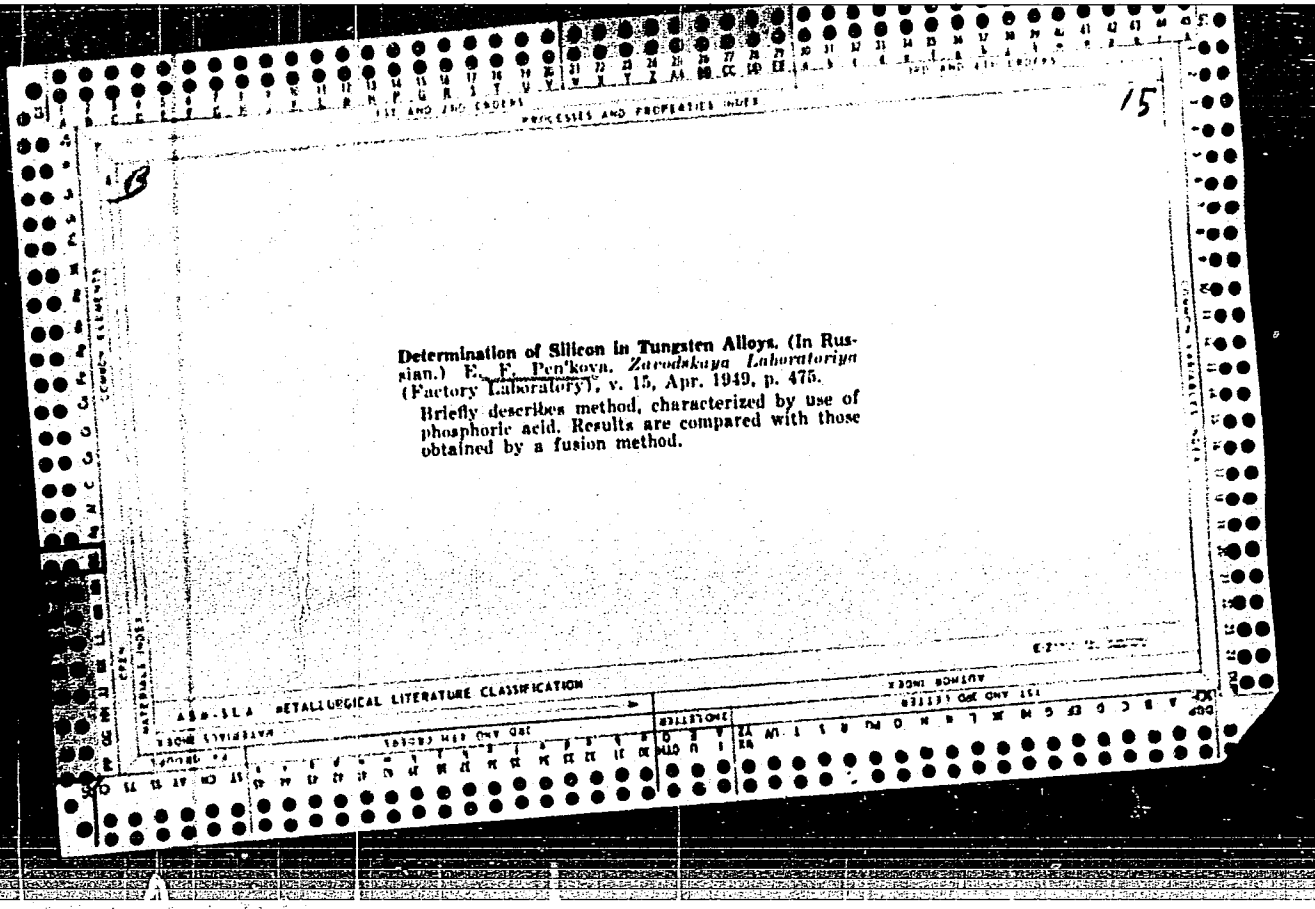
5
③ M.V.
7632 Determination of Cerium in Steel by Potentiometric Method, V. I. Malov, E. F. Penkova, and A. S. Koroleva. Henry Brulcher, Alameda, Calif., Translation no. 3131, 3 p. (From *Zavodskaya Laboratoriya*, v. 14, no. 3, 1948, p. 349-350.)
Determination of equivalent point by potentiometric method and separation of Ce from Fe, Ni, Cr, and part of the Mn by electrolysis with a Hg cathode.

MF
9-9-54

PEN'KOVA, E.F.

P.YA. YAKOVLEV

" Determination of Molybdenum and Titanium in Ferroalloys and Steels by an Amalgamation Method"



1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

21

S

POTENTIOMETRIC DETERMINATION OF CALCIUM IN STEELS. SI Kalov
SE Renkova and A Koroleva Zavodskaya Laboratoriya 1948, vol. 14,
pp 349-350 in Russian. Chemical Abstracts 1949, vol 43,
Feb. 25 col 1282.

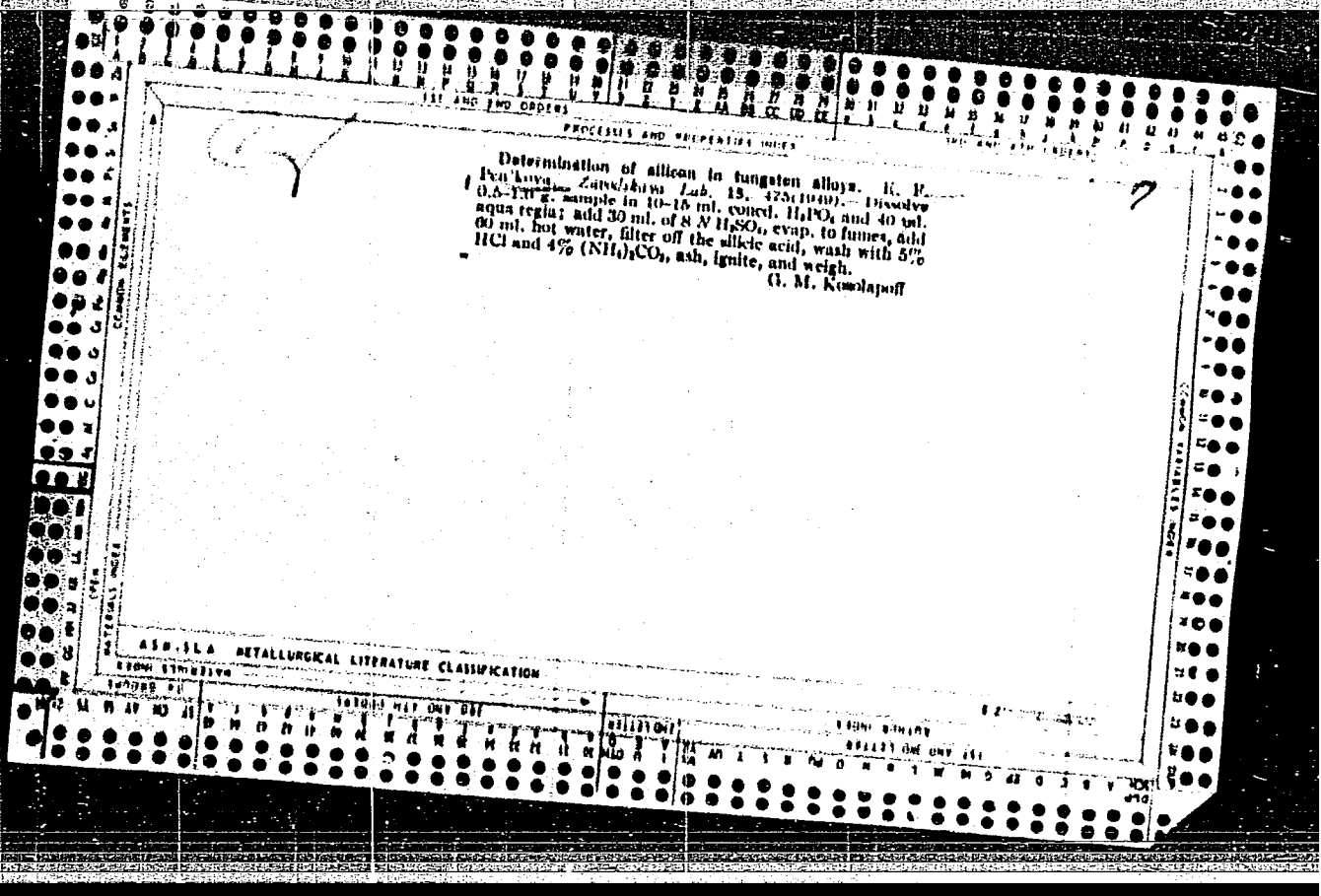
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MATERIALS INDEX

1ST AND 2ND ORDERS

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7

Handwritten mark: a stylized 'A' or '4' in a circle.

Determination of molybdenum and titanium in ferrous alloys and steel by the amalgam method. P. Ya. Yakovlev and R. E. Pen'kova. *Zarodskaya Lab.* 15, 34-6 (1949); *Ch. C.A.* 43, 1284. — Dissolve 0.5 g. of alloy in 30-40 ml. of 5 N HNO₃, add 15-20 ml. of concd. H₂SO₄, evap. to fumes, cool, dil. with H₂O, and heat until clear. Add this soln. to 200 ml. of hot 25% NaOH, boil 2-3 min., cool, dil. to 500 ml., and filter. Introduce a 50 ml. aliquot into the reductor contg. liquid Zn amalgam after adding 5-7 ml. of concd. H₂SO₄, cooling, and shaking 5-10 min. Draw off the amalgam and titrate the soln. with KMnO₄ or with methylene blue. Steel contg. less than 1-2% Mo is best analyzed by the thiocyanate colorimetric method. The detn. of Ti in ferrotitanium is based on the reduction by Zn amalgam of Ti⁴⁺ to trivalent Ti, and titration by FeCl₃ in presence of KCNS or NH₄CNS (also in CO₂ atm.). Dissolve 0.2 g. of sample in 40-50 ml. of 7 N H₂SO₄, oxidize with HNO₃, and evap. to fumes. Dil. with water and reduce with Zn-fig. Add 5 ml. 5% NH₄CNS soln. and titrate with FeCl₃ to a pink color in the presence of thiocyanate. V and Cr must be removed. For steels contg. over 1% Ti: dissolve 0.5 g. of sample in 30 ml. of HCl and 10 ml. of HNO₃. Add 10 ml. of concd. H₂SO₄, and evap. to fumes. Dil. with water to 250 ml. Oxidize Cr by persulfate in presence of AgNO₃, and ppt. Fe and Ti by adding NH₄OH. Filter, wash, and dissolve in hot 7 N H₂SO₄. Reduce as above, add 3-5 ml. 5% KCNS, and titrate with FeCl₃ soln. G. M. Kosolapoff.

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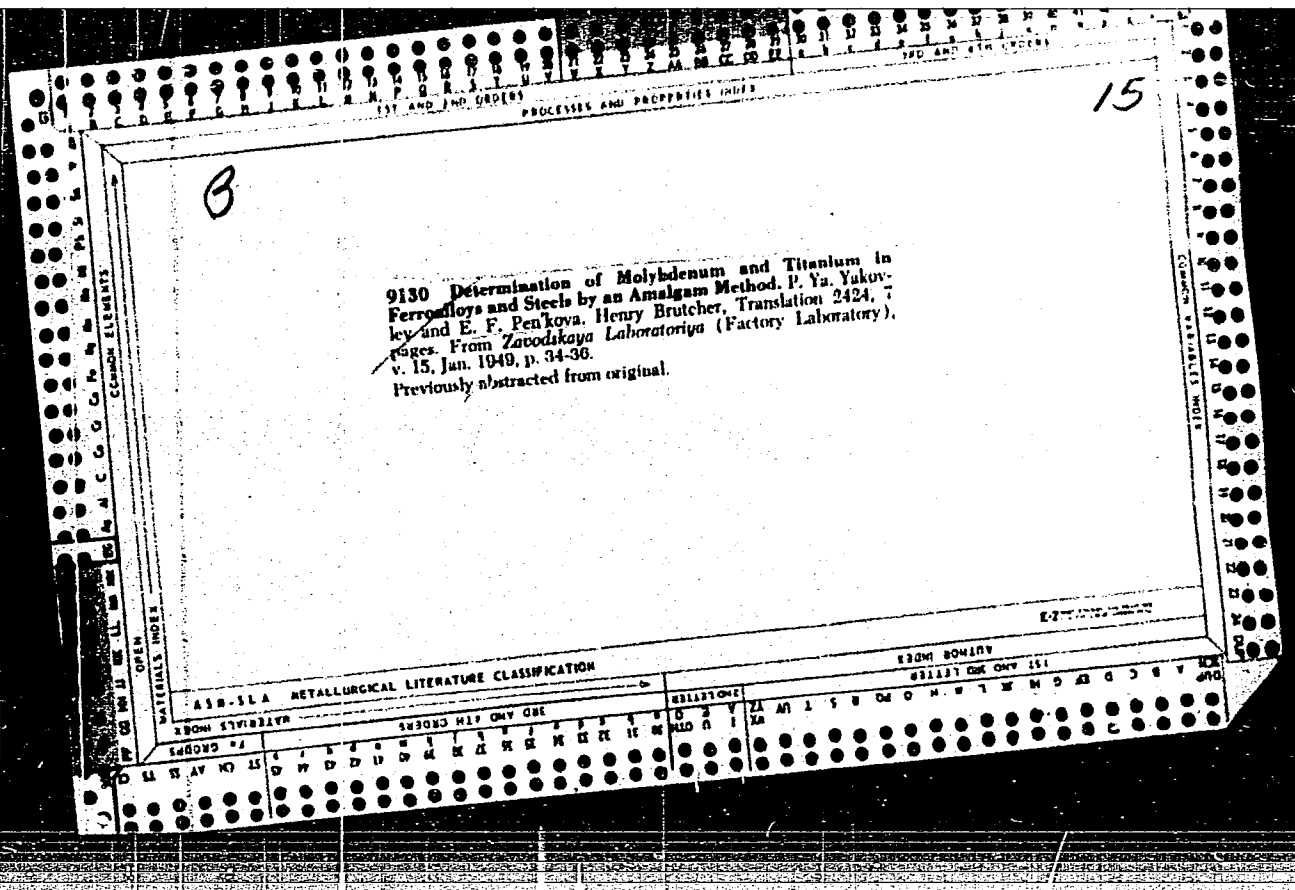
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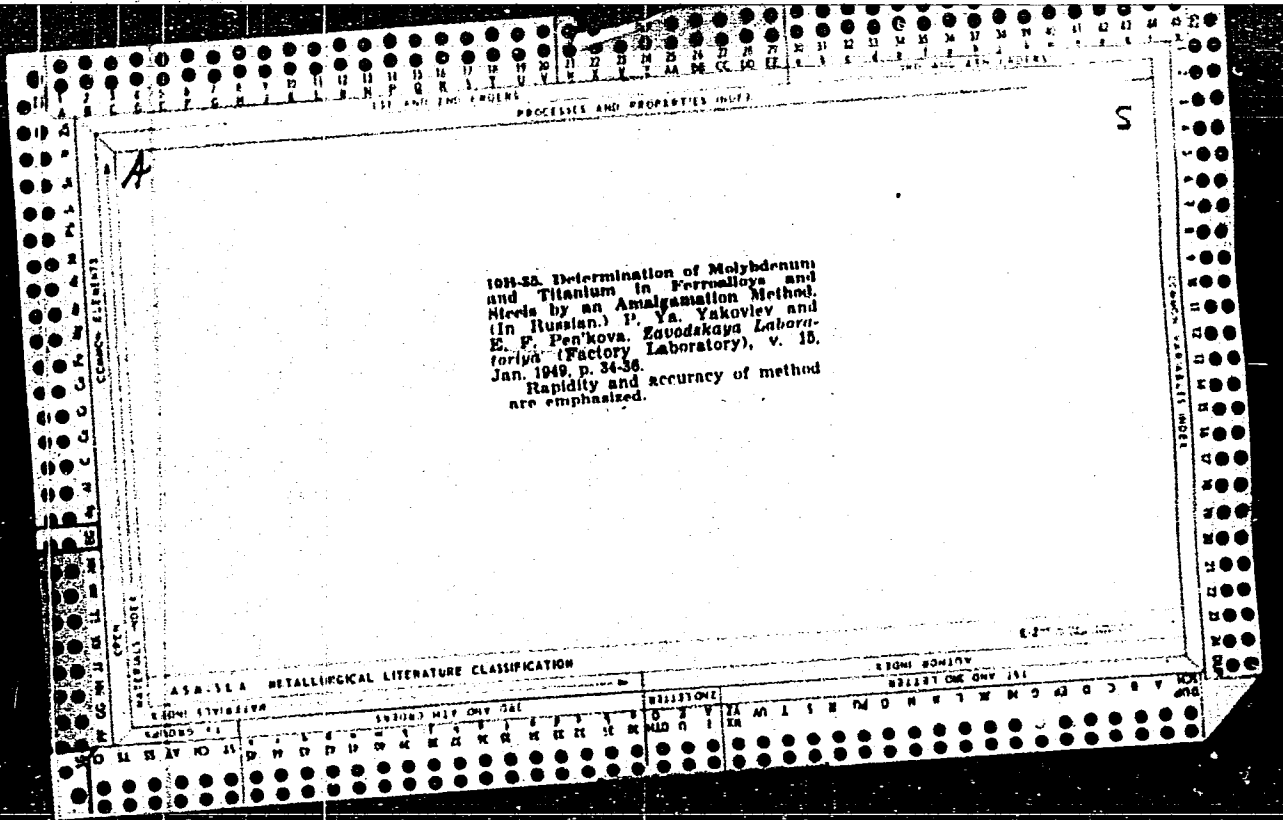
Determination of Molybdenum and Titanium in Ferroalloys and Steels by an Amalgamation Method. (In Russian.) P. Ya. Yakovlev and E. F. Pen'kova. *Zavodskaya Laboratoriya (Factory Laboratory)*, v. 15, Jan. 1949, p. 34-36.

Describes above method in detail. Rapidity and accuracy are emphasized. Comparative data are tabulated.

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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9130 Determination of Molybdenum and Titanium in Ferrous Alloys and Steels by an Amalgam Method. P. Ya. Yakovlev and E. F. Pen'kova, Henry Bratcher, Translation 2424, 7 pages. From *Zavodskaya Laboratoriya* (Factory Laboratory), v. 15, Jan. 1949, p. 34-38. Previously abstracted from original.

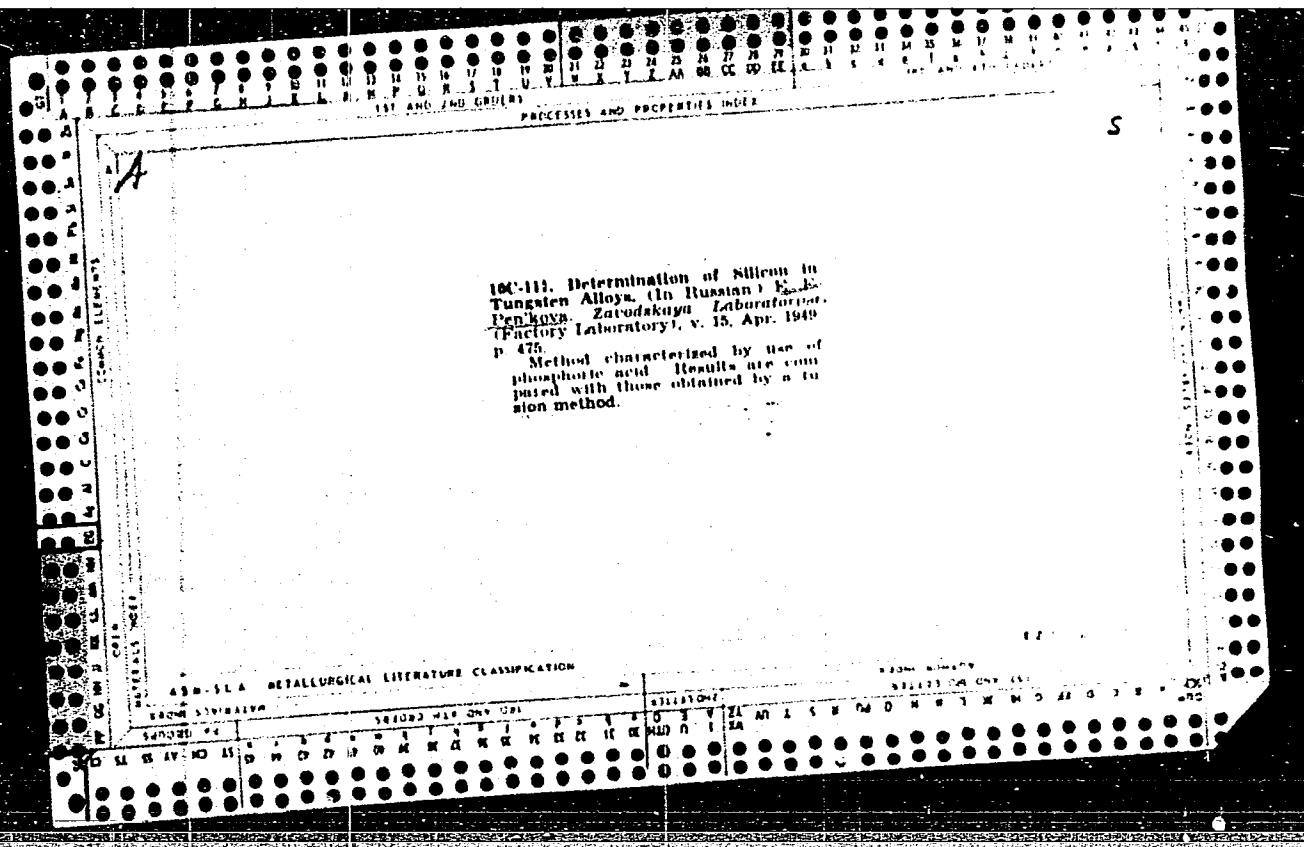
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

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COMMON VARIABLES INDEX

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COMMON VARIABLES INDEX



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100 AND 4TH CENTERS
100 AND 4TH CENTERS
PRECISES AND PROPERTIES INDEX

Determination of Molybdenum and Titanium in Ferroalloys and Steels by an Amalgamation Method. (In Russian.) P. Ya. Yakovlev and E. F. Pen'kova. *Zavodskaya Laboratoriya (Factory Laboratory)*, v. 15, Jan. 1949, p. 34-36.

Describes above method in detail. Rapidity and accuracy are emphasized. Comparative data are tabulated.

METALLURGICAL LITERATURE CLASSIFICATION

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 1ST AND 4TH ORDERS

A **S**

10B-35 Determination of Molybdenum and Titanium in Ferrous Alloys and Steels by an Amalgamation Method. (In Russian.) P. Ya. Yakovlev and E. F. Pen'kova. *Ezovskaya Laboratoriya (Factory Laboratory)*, v. 15, Jan. 1949, p. 34-38. Rapidity and accuracy of method are emphasized.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS	3RD AND 4TH ORDERS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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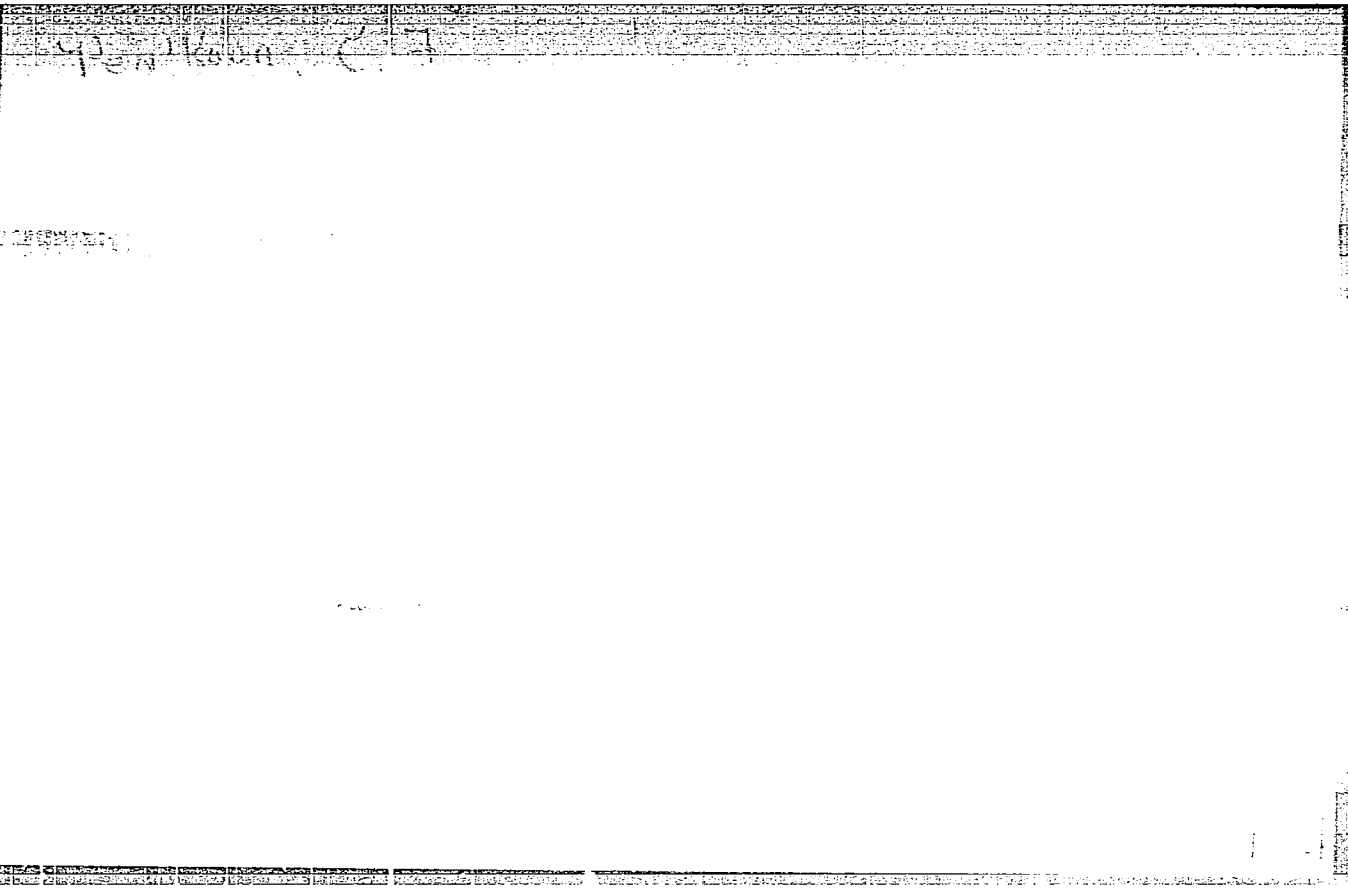
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134 p. (MIRA 16:4)

(Potatoes) (Peat soils)

TURNAS, Petr Antonovich, doktor sel'skokhoz.nauk; GOLOVKO, Dmitriy
Gavrilovich, kand.sel'skokhoz.nauk; PER'KOVA, G.A., red.;
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[Growing farm crops on peat soils] Vozdelyvanie sel'skokho-
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V. N. SCHULTZ, ZhKhimProm, 6, 1412-8(1929)

PERKINS, L. D.

V 1957, Analysis of Irons by means of a cathode.
 V. I. Leostkaya and L. I. Pavlova. *Dokl. Akad. Nauk SSSR*, 1957, 132, 1139-1141. *Abstracts*
 Zs., *ANAS*, 1955, Abstr. No. 14,269. -- Irons (1 g)
 is dissolved in 15 to 20 ml of dil. HNO₃ (1 : 1), the
 solution is evaporated to a vol. of 5 to 10 ml; 100 ml
 of hot water and 20 ml of 10 per cent. ammonium
 nitrate solution are added and the solution is boiled
 and set aside in a hot place. The metatannic acid
 is filtered off and washed with hot dil. HNO₃ (2
 per cent) and the filtrate is diluted to 200 ml in a
 calibrated flask. A 50-ml aliquot of the solution
 is made just alkaline with N NaOH and then just
 acid with 2 per cent. aq. HNO₃ and passed through
 a sulphopropyl ammonium cationite filter at the
 rate of 5 to 6 drops a min. Aluminium, Co and Fe
 are adsorbed. The Al is extracted by washing the
 filter with 50 ml of 5 per cent. aq. NaOH at the
 rate of 5 to 10 ml per min, followed by 100 to 120
 ml of water, and is determined colorimetrically or
 gravimetrically. To extract the Co and Fe, the
 cationite is washed with hot 5 per cent. HCl solution
 into a receiver containing 30 to 35 ml of conc.
 aq. HCl. The ppt. of Fe(OH)₃ is collected and
 dissolved in HCl and the Fe is determined colorimetrically
 as thiocyanate. The Co is determined
 by electrolysis of the ammoniacal solution.

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KURIL'CHIKOV, Ye.A.; PEN'KOVA, M.P.; VIDISHEVA, A.N.

Graft polymers of proteins with acrylonitrile. Report No.1.
Khim. volok. no.2:28-32 '59. (MIRA 12:9)

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(Proteins) (Acrylonitrile) (Polymers)

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Preparation of synthetic fiber from graft polymers of protein
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ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform.* no.3:40-42
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1536 0 '60. (MIRA 13:11)

(Apple)

(Botany--Morphology)

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Cand Agr Sci - (diss) "Type of branching and regeneration of skeletal branches of the apple tree in connection with their pruning." Tashkent, 1961. 20 pp; (Ministry of Agriculture Uzbek SSR, Tashkent Agricultural Inst); 200 copies; price not given; list of author's works at end of text (10 entries); (KL, 10-61 sup,222)

PENKOVA, St.

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of manufactured goods. Ratsionalizatsiia no.6:10-11 '62.

PENKOVA, Stefanka

Registration of trademarks. Ratsionalizatsiia 13 no.7:Ro
'63.