"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

L 07956-67

ACC NR: AP6033495

opposed chamber (see Fig. 1). [Translation]

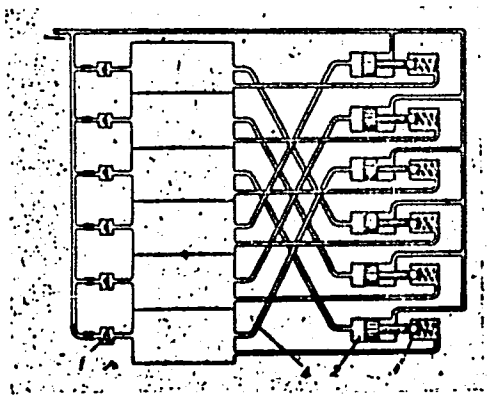

Fig. 1. Hydraulic mechanism for balancing rotors
1— Reverse valve; 2—servomechanism; 3—release valve; 4—pipeline.

SUB CODE: 13/ SUBM DATE: 06May64/

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

PEL'POR, Dmitriy Sergeyevich. Prinimali uchastiye: KOLOSOV, Yu.A., kand. tekhn. nauk; SUMAROKOV, N.P., aspirant; TSHLINSKIY, A.Yu., akademik, retsenzent; MIKHALEV, I.A., kand. tekhn. nauk, prof., nauchn. red.; SUVOROVA, I.A., red.

[Theory of giroscopic stabilizers] Teoriia giroskopicheskikh stabilizatorov. Moskva, Mashinostroenie, 1965. 347 p. (MIRA 18:12)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ACC NR: AP7002589 (A,N) SOURCE CODE: UR/0413/66/000/023/0089/0089

INVENTORS: Kolosov, Yu. A.; Naroditskaya, Yu. I.

ORG: none

TITLE: A hydraulic device for balancing rotors. Class 42, No. 189200

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 89

TOPIC TAGS: hydraulic device, turbine rotor, valve, bushing

ABSTRACT: This Author Certificate presents a hydraulic device for balancing rotors in action. The device contains an internal bushing ribbed along its generatrix, an external bushing, and a distributing valve (see Fig. 1). To balance rigid and flexible rotors in action, the internal ribbed bushing and the external one are placed rigidly on pins in the rotor so that they can not turn in respect to one another. The working chambers formed by the internal and the external bushing are provided with stiffeners. To produce and to relieve the necessary pressure in the revolving chamber, the distributing valve has the form of an internal revolving plunger with seven axial openings and with six annular grooves. The immobile external bushing is placed on the plunger. This bushing has six radial openings connected with the six annular grooves in the plunger.

Card 1/2

UDC: 621-755

0930 2704

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

27481
S/048/61/025/009/006/007
B104/B102

9,6000 (1139,1331)

AUTHORS: Vil'dgrube, G. S., Kolosov, Yu. A., and Ronkin, Zh. M.

TITLE: Generator of short light pulses for various measurements

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25, no. 9, 1961, 1180- 1182

TEXT: This paper was read at the 9th Annual Conference on Nuclear Spectroscopy. The great importance of generators of short light pulses in measuring techniques is noted in the introduction. It is stated that tubes in which light pulses are produced by means of fluorescence, can only be used to a limited extent, since the light amplitudes vary by 30% and more. The authors tested a miniature kinescope, type ЗЛК-1 (ZLK-1), with a helenite screen, which was developed in their plant. Unlike conventional cathode-ray tubes used as light-pulse sources, the luminophore (helenite) used in the ZLK-1 kinescope has a very short afterglow. The spectral composition of the helenite screen fluorescence had an intensity peak near 4000 Å. Owing to its good properties, the ZLK-1 tube can be used in the device shown in Fig. 3 for measuring the resolution of photomultipliers.

Card 1/3

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

27481
S/048/61/025/009/006/007
B104/B102

Generator of short light pulses ...

Principle of the diagram: During the interval the tube is closed by a voltage coming from the voltage divider. The voltage divider is in the circuit of a ВС-10 (VS-10) h-f rectifier. The tube is opened by pulses from a precision limiter at a 6Н6П (6N6P) tube with a calibrated amplitude. The limiter is opened by pulses from a ГИ-2А (GI-2A) generator. The amplitude spectrum is taken with the aid of a multi-channel analyzer of type АИ-100 "Радуга" (AI-100 "Raduga"). The stability of pulses is ~0.1% within 8 hr, and that of light pulses is 1.5% within the same period. N. N. Nordstrem is thanked for his assistance in constructing the tubes. There are 4 figures.

Fig. 3: Diagram of a device designed for measuring the resolution of photomultipliers. Legend: (1) Photomultiplier; (2) cathode follower; (3) amplifier; (4) analyzer; (ЗЛК-1) miniature kinescope of type ZLK-1; (5) check pulse; (6) mixture; (7) filament; (8) focusing coil.

Card 2/3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

LEVIT, M.Ye., kand.tekhn.nauk; KOLOSOV, Yu.A., inzh.; ROYZMAN, V.P., inzh.

Balancing flexible rotors of turbomachines. Trudy MAI no.136: 144-162 '61. (MIRA 14:11)

(Impellers) (Balancing of machinery)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

LEVIT, M.Ye., kand.tekhn.nauk; KOLOSOV, Yu.A., inzh.

Damping vibrations of aircraft engines. Trudy MAI no.140:130-147 '61. (MIRA 14:12)

(Airplanes--Engines--Vibration)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

15-1957-10-13758

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 52 (USSR)

AUTHOR: Kolosov, Yu. G.

TITLE: New Paleolithic Sites in Crimea (From Data of an Archeological Reconnaissance in 1955) /Novyye neoliticheskiye stoyanki Kryma (po dannym arkheol. razvedok 1955 g)/

PERIODICAL: Kratkiye soobshch. In-ta arkheol. AN UkSSR, 1957, Nr 7, pp 13-16

ABSTRACT: Bibliographical entry

Card 1/1

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOV, Yu.; BADULINA, N.; BYKADOROVA, T.; MEDINSKAYA, N.

Advertise more! Grazhd.av 17 no.9:26 S '60. (MIRA 13:9)

1. Korrespondent "Grazhdanskoy aviatsii" (for Medinskaya).
(Advertising--Aeronautics, Commercial)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

VIL'DGRUBE, G.S.; KOLOSOV, Yu.A.; RONKIN, Zh.M.

Generator of short light pulses for various measurements.
Izv. AN SSSR. Ser. fiz. 25 no.9:1180-1182 '61.
(MIRA 14:8)

(Electric lamps)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

S/535/61/000/136/006/006
E191/E381

AUTHORS: Levit, M.Ye., Candidate of Technical Sciences and Kolosov, Yu.A., Royzman, V.P., Engineers

TITLE: The balancing of flexible rotors in turbo-machinery

SOURCE: Moscow. Aviatsionnyy institut. Trudy. no. 136. 1961. Nekotoryye voprosy issledovaniya kolebaniy v aviatsionnykh dvigatelyakh. 144 - 162

TEXT: In the practical operation of gas-turbine rotors, it is known that rotors which are dynamically balanced at low speed may have unacceptable vibrations at the operating speed whilst smoothly running rotors may be formally unbalanced. This apparent contradiction is due to the basic assumption of rigidity of the rotor underlying present-day dynamic balancing. Methods for the balancing of multi-disc rotors of full-scale gas-turbine engines at operating speed have been under development at the MAI. The method proposed in the present paper is based on the gradual reduction of the maximum deflection of the elastic line found experimentally. In contrast to existing methods, the rotor is mounted in its proper engine casing and rotated at its operating

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

The balancing of ....

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speed. Apparatus and equipment to accomplish this method are described, as well as the theoretical foundations which underlie the requirement for dynamic balancing of flexible rotors at operating speeds. Balancing can be performed either in a vacuum installation (Author's Certificate no. 117925) when driven by an electric motor or on a test bed during engine tests. The vacuum chamber, its drive system and the measuring apparatus are described in some detail as well as calibration methods. The most important conclusion is that, when balancing at the operating speed, it is insufficient to apply correction masses at the extreme ends of the shaft and essential to attach masses also in another section roughly in the centre portion of the rotor. The recommended procedure is the separate static balancing of all components which enter into the rotor assembly, followed by conventional dynamic balancing at low speed, applying corrections at the extremities and finally balancing at full speed using an additional central correction plane. There are 11 figures and 2 Soviet-bloc references.

Card 2/2

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

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))

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

SOV-26-58-3-39/51

AUTHOR: Bibikova, V.I., Candidate of Biological Sciences; Kolosov, Yu.G.

TITLE: The Fauna of the Temnaya Cave (Fauna peshchery Temnaya)

PERIODICAL: Priroda, 1958, 47 Nr 3, p 115 (USSR)

ABSTRACT: The Temnaya Cave is situated in the deep and steep Kubalar-Dere ravine near the village of Peredovoye in the Kuybyshev District on the Crimean Penisula. The argillaceous soils of the cave were investigated by the Crimean Archeological Expedition of the Institut arkheologii AN USSR (Institute of Archaeology of the AS UkrSSR) and the Institut istorii material'noy kultury AN SSSR (Institute of the History of Material Culture of the AS USSR). Bones of elephants, big and small hoofed animals, rhinoceroses, wild boars, asses, wolves, Tartar, Polar and common foxes, cave hyenas and fish were found. The faunistic complex of the Temnaya Cave is typical for the Mousterian period and can be related to the Riss or Riss-Wurm periods. In the Quaternary fauna of the Crimean Peninsula, the presense of mammoth and rhinoceros were also noticed.

~~Card 1/2~~ Inst. of Arkheologyi, Acad Sci UkrSSR, Kiyev

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOV, Yu. I.

Students engaged in research. Vest.LGU 2 no.8:135-139 Ag '47.
(MIRA 12:9)

(Leningrad University)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOV, Yuriy Ivanovich; ROSTOVTSEVA, V.I.redaktor; GUS'KOV, G.G., redaktor; GARNEK, V.P., tekhnicheskiy redaktor.

[Practical methods of general science instruction during the teaching of chemistry in secondary schools] Iz opyta politekhnicheskogo obucheniia v prepodavanii khimii v srednei shkole. Pod red.V.I.Rostovtsevoi. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1957. 133 p. (MIRA 10:6)

1. Direktor 195-y shkoly Leningrada(for Kolosov).
(Science--Study and teaching)
(Chemistry--Study and teaching)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A. A.

"The Utilization of Herbicides in Combating Common Summer Weeds Before Emergence of Their Sprouts." Cand Agr Sci, All-Union Sci-Res Inst of Fertilizers, Agricultural Engineering, and Soil Science, 2 Dec 54. (VM, 19 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.A.

N

USSR/Weeds and Their Control.

Abs Jour: Ref Zhur-Biologiya, No 5, 1958, 20633.

Author : A.A. Kolosova
Inst : All-Union Institute of Fertilizers, Soil Science, and Agricultural Engineering.
Title : A New Method of Applying Herbicides. (Novyy sposob primeneniya gerbitsidov).

Orig Pub: Kukuruza, 1956, No 9, 39-40.

Abstract: Tests conducted at the Moscow Oblast' Central Testing Station of the All-Union Institute of Fertilizers, Soil Science, and Agricultural Engineering in 1951-1955 have established that at a depth of corn planting of not less than 6-8 cm weeds may be successfully destroyed by the chemical method of spraying the field for 2-3 days before the appearance of corn shoots with the herbi-

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.A., kand.sel'skokhoz.nauk

Special aspects of cultivating sandy soils. Zemledelie 8 no.7:65-69 Jl '60. (MIRA 13:9)

1. Novozybkovskaya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta udobreniy i agropochvovedeniya.
(Tillage)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

L 13066-65 AMD

ACCESSION NR: AP4045862 S/0299/64/000/014/M023/M023

[illegible] Biologiya. [illegible]

[illegible]

[illegible] homotrans-plant tissues with a support-mechanical function

SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney i [illegible], 1963. Yerevan, 1963, 347-34[illegible]

TOPIC TAGS: transplantation, homotransplant tissues, support-mechanical function tissues, tissues

TRANSLATION: Tissues with support-mechanical functions (bones, cartilages, fascias, tendons, and pericardium) have high density, durability, and few vessels; and, under transplantation conditions they preserve their structure for a long time and perform a support function. Transplanted fresh or preserved tissues under conditions of +4°, -25°, -189°, and lyophylization are gradually resorbed and

Card 1/2

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L 13066-65

ACCESSION NR: AR4045862

are replaced by the recipient's own tissues. The nature and time of this process depend on several factors, primarily on density of tissues, time of their vacuolization, and inflamation reaction intensity in the transplant matrix. A brief analysis of factors which determine the nature of changes in homotransplant tissues with [illegible] mechanical function is given.

SUB CODE: LS ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

Kolosova, A. A.

USSR/ Medicine - Experimental morphology

Card 1/1 Pub. 22 - 47/49

Authors : Kolosova, A. A.

Title : Ependymal glia in conditions of transplantation

Periodical : Dok. AN SSSR 101/3, 573-575, Mar 21, 1955

Abstract : Experiments were conducted on rabbits to determine the behavior of the glia tissue when transplanted into the forward chamber of the eye. The operation and results obtained are described. Four USSR references (1933-1953). Illustrations.

Institution : State Medical Institute, Rostov

Presented by: Academician A. D. Speranskiy, December 23, 1954

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA A. A.

EXCERPTA MEDICA Sec 5 Vol 12/3 Gen. Path. Mar 59

722. THE INTRAMURAL NERVOUS SYSTEM OF THE HEART IN EXPERIMENTAL INFARCTION (Russian text) - Kolosova A. A. - DOKLADY AKAD. NAUK SSSR 1957, 11/1 (131-133) Illus. 2

Myocardial infarctions were induced in 50 cats by ligation of the anterior branch of the left coronary artery. Animals were killed from time to time, after periods ranging from 30 min. to 260 days, and the lesions were examined histologically. The changes in the nervous system of the heart consisted in dystrophy and more rarely complete destruction of the nerve tissue; the receptors of the heart seemed to have suffered most. Signs of regeneration of the nervous system were, however, also observed.

Landau - Lausanne (I, 5)

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.A.

KOLOSOVA, A.A.

Intramural nervous system of the heart studied in experimental infarcts. Dokl. AN SSSR 117 no.1:131-133 N-D '57. (MIRA 11:3)

1. Rostovskiy-na-Donu gosudarstvennyy meditsinskiy institut. Predstavleno akademikom N.N.Anichkovym.
(HEART--INFARCTION)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.A.

Afferent innervation of the heart in Black Sea sharks and rays. Dokl.AN SSSR 145 no.5:1148-1150 '62. (MIRA 15:8)

1. Rostovskiy-na-Donu meditsinskiy institut. Predstavleno akademikom N.N.Anichkovym.
(Heart—Innervation) (Fishes—Anatomy)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.A.; SOKOLOV, P.A.

In memory of Konstantin Aleksandrovich Lavrov, 1903-1962.
Arkh. anat., gist. i embr. 44 no.6:125-126 Je '63.
(MIRA 17:7)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.G.

CATEGORY : USSR

TITLE : Cultivated Plants. Grains. Leguminous Grains. Tropical Cererals.

PUB. JOUR.: Ref Zhur-Biologiya, No. 5, 1959, No. 20259

Author : Gladkiy, M.F.; Kolosova, A.G.

INST. : Not given

TITLE : Corn on Occupied Fallow.

ORIG. PUB.: Kukuruza, 1958, No.6, 11-13

ABSTRACT : Experiments were made in Lipetskaya Oblast in 1955-1957. It is recommended that one use square pocket planting with 4-5 plants per hill, cultivating between the rows and weeding, while harvesting the roughage yield not later than the 5th to 6th of August. High corn yieldson the occupied fallow with subsequent winter crops can be produced only when fertilizer is applied, the square pocket plantings are carefully attended to and the

CARD : 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.G.

Sowing winter rye after corn in the northern wooded steppe.
Zemledelie 6 no.6:40-42 Je '58. (MIRA 11:6)
(Corn (Maize)) (Rye)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

PINKHASIK, M.I.;FRANTSEVA, N.I.;KOLOSOVA, A.M.;YELOKHINA, N.P.;SHEFER, M.Z.

Paraaminosalicylic acid in complex therapy of osteoarticular tuberculosis in children. Probl. tuberk., Moskva no.3:88-89 May-June 1953. (CLML 25:1)

1. Professor for Pinkhasik. 2. Of Sverdlovsk Municipal Children's Tuberculosis Sanatorium No. 1 (Head Physician -- G. M. Yarushin).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A. V.

Mouth - Diseases

Role of dynamic factors of dental occlusion in the pathogenesis of paradentosis., Stomatologiya, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.
2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A. V.

Agriculture

Use of perennial grasses in grassland forage crop rotation; Moskva, Gos. izd-vo sel'khoz lit-ry, 1950.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.
2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLESOVA, A. V.

Hay

Enriching the grass stand of a seeded meadow with legumes. Korm. baza 3 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

1. KOLOSOVA, A. V., TARABRINA, YE. A.

2. USSR (600)

4. Meadows

7. Accumulation of dead roots under various methods of managing sown meadows. Korm baza No. 1 1953.

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

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.Ya.; POTYAGAYLO, Z.M.

Chemical composition of sunflower seed husks of different varieties. Gidroliz. i lesokhim. prom. 10 no.2:12-13 '57. (MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.
(Sunflower seeds)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A. Ya.

ZAKOSHCHIKOV, A.P.; KOLOSOVA, A.Ya.; SHPUNTOVA, M.Ye.

Pentose hydrolysis of cottonseed hulls. Zhur.prikl.khim. 29 no.7:1093-1102 Jl '57. (MIRA 10:10)
(Hydrolysis) (Cottonseed)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.Ya.

Chemical compsition of sunflower seed husks and methods for refining them. Gidroliz. i lesokhim. prom. 11 no.2:11-13 '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy gidroliznoy i sul'fitno-spirtovoy promyshlennosti.
(Sunflower seed)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

MAKSIMENKO, N.S.; GLADNEVA, A.P.; PAVLOV, S.V.; AKKERMAN, I.Z.; KOLOSOVA, A.Ya.; EPSHTEYN, Ya.V.

Mastering the processing of new raw materials at the Krasnodar Hydrolysis Plant. Gidroliz. i lesokhim. prom. 11 no.6:12-16 '58. (MIRA 11:10)

(Krasnodar--Hydrolysis)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.Ya.; POTYAGAYLO, Z.M.

Refining and pentose hydrolysis of conrcobs. Gidroliz.i lesokhim.prom. 13 no.6:8-9 '60. (MIRA 13:9)
(Corn products) (Pentose) (Hydorlysis)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, A.Ye.; RAYZER, P.Ya.

[Use of aerial photography in forest valuation] Ispol'zovanie aerosnimkov pri taksatsii lesa. Moskva, Goslesbumizdat, 1953. 115 p. (MLRA 7:2)
(Forests and forestry--Valuation) (Photography, Aerial)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, Anna Yevmen'yevna, starshiy nauchnyy sotrudnik; BELYAYEV, Nikolay Iosifovich, inzhener lesnogo khozyaystva; DANICHEV, Mikhail Prokof'yevich, inzhener lesnogo khozyaystva; BARANOV, N.I., redaktor; ARNOL'DOVA, K.S., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskiy redaktor

[Use of enlarged small scale aerial photographs in forest mensuration work] Ispol'zovanie uvelichennykh melkomasshtabnykh aerosnimkov pri lesouchetnykh rabotakh. Moskva, Goslesbumizdat, 1956. 56 p. (MLRA 9:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut lesnogo khozyaystva (for Kolosova) 2. Leningradskiy otryad lesnoy aerofotos"yemki (for Belyayev, Danichev)
(Photography, Aerial) (Forests and forestry--Mensuration)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

BELOV, Sergey Vasil'yevich, doktor sel'khoz. nauk; DMITRIYEV, Ivan Dmitriyevich, dots.; KOLOSOVA, Anna Yevmen'yevna, dots.; BELYAYEV, N.I., retsenzent; KIRILLOVA, L.D., red.; URITSKAYA, A.D., tekhn. red.

[Aerial photographic surveying and aviation in forest management] Aerofotos"emka i aviatsiia v lesnom khoziaistve; uchebnoe posobie dlia studentov lesokhoziaistvennogo fakul'teta. Pod obshchei red. S.V.Belova. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1962. 256 p. (MIRA 16:10)

1. Nachal'nik otdela aerofotoizyskaniy Gosudarstvennogo instituta po proyektirovaniyu lesnogo transporta (for Belyayev).
(Aerial photogrammetry) (Aeronautics in forestry)
(Forest management)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

Kolosova, E.L.

BOGACHEV, Ivan Nikolayevich; MINTS, Rafail Isaakovich; AKSEL'ROD, M.A., inzh., retsenzent; BLYUM, E.E., inzh., retsenzent; KOLOSOVA, E.L., inzh., red.; DUGINA, N.A., tekhn.red.

[Cavitation erosion of iron-carbon alloys] Kavitatsionnoe razrushenie zhelezouglerodistykh splavov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 109 p. (MIRA 13:2)

(Iron alloys--Metallography) (Cavitation)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

LYTKIN, V.I.; LYTKIN, K.I.; LITVIN, G.Ye., inzh., retsenzent; FIALKOV, B.S., inzh., red.; KOLOSOVA, E.L., inzh., ved. red.; DUGINA, N.A., tekhn. red.

[Conversion of machinery plant furnaces to natural gas] Perevod pechei mashinostroitel'nykh zavodov na prirodnyi gaz. Moskva, Mashgiz, 1963. 119 p. (MIRA 16:9)
(Furnaces) (Machinery industry)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, G. A.

20886. Kolosova, G. A. 'Pol' materinskogo klubnya v zhizni kartofel'nogo rasteniya. Uchen. zapiski (Leningr. gos. ped. in-T im gertsena), LXXXII, 1949, s. 95-134. -- Bibliogr: 31 nazv.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA G.I.

Microscopic and photomicrographic analyses of the structure of synthetic sole leather. G. I. Kolosova, A. I. Badanina, and S. A. Pavlov. *Legkaya Prom.* 14, No. 12, 23-6 (1954).—The material consisted of leather fibers and rubber. Magnification of 280–450 was satisfactory. To distinguish between structural elements, selective staining and also destruction of leather fibers by treating for 3–15 min. on a water bath with a mixt. of 10 ml. 25% H_2SO_4 and 0.75 g. K bichromate and washing with soda and water were employed. Photomicrography was for magnification of 80.

B. Z. Kamich

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

PCHELIN, V.A., doktor khimicheskikh nauk; KOLOSOVA, G.I.

Radioisotopes for the study of the structure of artificial leather.
Leg.prom. 16 no.4:23-24 Ap '56. (MLRA 9:8)
(Leather, Artificial)
(Radioisotopes--Industrial applications)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KALASHNIKOV, V.P., KOLOSOVA, G.I. [redacted]

Use of oil varnish and pyrolitic polymers in the production of artificial leather. Leg.prom. 17 no.6:33-34 Je '57. (MLRA 10:8)
(Leather, Artificial) (Petroleum industry--By-products)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA G.I.

BADANINA, A.I.; ZAVEL'GEL'SKIY, L.M.; KOLOSOVA, G.I.; MEL'NIK, Ye.M.

Improving the appearance of artificial leather. Leg.prom.17 no.9:16-17 S '57. (MIRA 10:12)

(Leather, Artificial)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ALEKSEYENKO, V.I.; KALASHNIKOV, V.P.; KOLOSOVA, G.I.; MEL'NIK, Ye.M.

Plasticizers for the plastic leather "M". Kozh.-obuv.prom. 2 no.2:16-20 F '60. (MIRA 13:5)
(Plasticizers) (Leather, Artificial)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ZOLOTOV, V.I., inzh.; IL'INSKIY, D.Ya., inzh.; Prinimali uchastiye: ALEKSANDROV, V.P., inzh.; SOLOV'YEV, S.S., inzh.; BADANINA, A.I., kand.tekhn.nauk; FIRSOVA, K.A., kand.tekhn.nauk; KOLOSOVA, G.I., mladshiy nauchnyy sotrudnik

Effect of the geometry of the screw on the conditions of the extrusion of artificial leather. Nauch.-issl.trudy VNIIPIK no.12:87-95 '60. (MIRA 16:2)

(Leather, Artificial)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, G.I., mladshiy nauchnyy sotrudnik; PAVLOV, S.A., doktor tekhn.nauk

Studying the structure of artificial sole leather manufactured on a base of leather fibers. Report No.3. Nauch.-issl. trudy VNIIPIK no.13:27-32 '62. (MIRA 18:1)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

BADANINA, A.I., kand.tekhn.nauk; ZOLOTOV, V.I., inzh.; KOLOSOVA, G.I., mladshiy nauchnyy sotrudnik; FIRSOVA, K.A., kand.tekhn.nauk

Use of worm machines for the formation of artificial leather compositions. Report No.1. Nauch.-issl. trudy VNIIPIK no.13:32-43 '62. (MIRA 18:1)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

Kolosova, G. M.

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Extraction column. [illegible] Kolosova [illegible] An extr. column operating [illegible] nozzle mixer is described. The [illegible] (diagram shown) was used for the [illegible] system containing Co nitrate and Bu_3PO_4 [illegible] field, C.A. 48, 11118f). The distribution [illegible] are tabulated for various concns. of [illegible] these range from infinity at 5 g/l to 2.6 [illegible] while for Co under these conditions the [illegible] 0.001 and 0.045, resp. The coeff. [illegible] at 50° as compared to 19°. The [illegible] system is [illegible]. The [illegible] significantly with [illegible] HNO$_3$. The [illegible]

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ZLOBIN, B.I.; KOLOSOVA, G.M.

In the V.I. Vernadskii Institute of Geochemistry and Analytical Chemistry (meeting of the scientific council and a conference of young scientists). Vest.AN SSSR 26 no.5:78-81 My '56. (MLRA 9:8)
(Geochemistry) (Chemistry, Analytical)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, G.N.

5(2) PHASE I BOOK EXPLOITATION SOV/1727

Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii

Redkozemel'nyye elementy; polucheniye, analiz, primeneniye (Rare Earth Elements; Extraction, Analysis and Application) Moscow, Izd-vo AN SSSR, 1958. 331 p. 2,200 copies printed.

Resp. Ed.: B. I. Ryabchikov, Professor; Editorial Board: I. P. Alimarin, Corresponding Member, USSR Academy of Sciences, I. N. Zaozerskiy, Doctor of Chemical Sciences, R. V. Koglyarov, Candidate of Technical Sciences, V. I. Kuznetsov, Doctor of Chemical Sciences, M. M. Senyavin, Candidate of Chemical Sciences, and Yu. S. Sklyarenko, Candidate of Chemical Sciences; Eds. of Publishing House: D. N. Trifonov and T. G. Levi; Tech. Ed.: S. G. Markovich.

PURPOSE: This book is intended for scientists, chemists, teachers and students of higher educational institutions, chemical and industrial engineers, and other persons concerned with the extraction, preparation, use, or study of rare earth elements.

COVERAGE: This collection contains reports presented at the June 1956 Conference on Rare Earth Elements at the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences USSR. The articles treat chemical methods of separating rare earth mixtures, methods of processing rare earth ores, ion exchange chromatography, chemical analysis, and some industrial applications of rare earths. Aside from contributing authors, the editors mention the following Soviet scientists, who are studying rare earth elements, rare earth deposits, extraction methods, and the preparation of oxides and salts: Martynov, Mal'nikov, Khrushchev, Melikov, Pisarzhevskiy, Chernyak, Tanatar, Belousov, Zhukov and especially, N. A. Orlov, who first obtained the majority of rare earth elements in the pure state, separated many complex molecular compounds of these elements, and determined their specific properties. References are given at the end of each article.

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Kolosova, G.N., and M.M. Senyavin (Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy AS USSR). Separation of Rare Earth Elements in Anionites 138

Sklyarenko, S. I., I.E. Krasse, and V.A. Morozova. Comparative Evaluation of Electrochemical Methods of Preparing Ytterbium 143

Treitskiy, E. V. (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR). Study of a Method of Separating Radio Isotopes in Paper Filters in Order to Prepare Co^{60} Without a Carrier 151

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, G.M.

AUTHORS: Senyavin, M. M., Kolosova, G. M., Nikashina, V. A. 78-1-19/43

TITLE: On Some Characteristic Features of the Chromato-graphic Separation of Mixtures of Radioactive Substances (O nekotorykh osobennostyakh khromatograficheskogo razdeleniya smesey radioaktivnykh veshchestv).

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 1, pp.104-108 (USSR).
Received: [illegible]

ABSTRACT: An investigation of general problems of the characteristic features of the conditions of the separation referred to in the title is given in the present report. The dependence of the degree of chromatographic separation on the amount of substance is caused by the static and kinetic cgaracteristic features of the process. As a rule statics reproduces the situation of the maximum of the zone of the substance on the yield curve, so to say also its value, whereas kinetics determines the washing out of the zone. In the case of a simple chromatographic method of displacement the specific circumstances of the separation of small quantities are not connected with any essential changes of test conditions. The chromatographic separation of microquantities by means of complex-forming reagents admits at first sight that the position of the culminating point of the yield curve

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On Some Characteristic Features of the Chromato-graphic Separation of Mixtures of Radioactive Substances. 78-1-19/43

depends on the quantity of the substance to be separated, in which case the concentration of the complex-forming reagent remains constant. This was, however, not proved experimentally (reference 2). By washing out with 0,003 mol-solution of the ethylenediamine-tetra-acetic acid of the radioactive strontium from a column of cationite KU-2, the position of the culminating point did not change with the change of the strontium-content by the 10^{10}fold. This explains the stupefying fact that with a gigantic span of the substances to be separated, the chemical conditions of separation (the concentration of the complex-forming reagent and the acidity of the solution) remain unchanged. Unfortunately no data are available in literature on the constancy of the radiation of organic synthetic ion exchanging adsorbents and on the change of the properties of adsorption of the cationites and anionites by irradiation. The authors therefore give the results so far available on irradiation with x-rays of the industrial cationite KU-2. As results from table 2 its exchange-capacity increases to some extent under this influence, whereas the capability of swelling decreases substantially. The former is apparently due to the oxidation of hydrocarbon and to the forma-

Card 2/3

rer separated on cationite KU-2 with decreased capability of swelling. There are 1 figure, 1 table, and 5 Slavic references.

SUBMITTED: June 18, 1957.

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5(2) PHASE I BOOK EXPLOITATION SOV/2452

Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii

Redkozemel'nye elementy; polucheniye, analiz, primeneniye (Rare Earth Elements; Production, Analysis, and Use) Moscow, Izd-vo AN SSSR, 1959. 331 p. 5,000 copies printed.

Resp. Ed.: D. I. Ryabchikov, Professor; Eds. of Publishing House: D. N. Trifonov and T.G. Levi; Tech. Ed.: S. G. Markevich; Editorial Board: I. P. Alimarin, Corresponding Member, USSR Academy of Sciences, I. N. Znamenskiy, Doctor of Chemical Sciences, N. V. Kotlyarov, Candidate of Chemical Sciences, V. I. Nazmetdinov, Doctor of Chemical Sciences, M. M. Sergeyeva, Candidate of Chemical Sciences, and Yu. S. Silyanenko, Candidate of Chemical Sciences.

PURPOSE: This book is intended for chemists in general and for geochemists and analytical chemists in particular.

COVERAGE: This collection of articles consists of reports presented at the Rare Earth Elements Symposium held in June 1956 at the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy. The book may be divided into three sections: the characteristics, uses and production of rare earth elements (REE); the methods of analyzing REE; and the application of individual rare earth elements and REE mixtures in the glass and metallurgical industries, and their use as catalysts. Considerable space is devoted to the application of ion-exchange chromatography in the production of pure forms of all rare earth elements. The combination of this method with other methods in separating REE on an industrial scale are discussed by D. I. Ryabchikov, Yu. S. Silyanenko, and M. M. Sergeyeva. Chemical methods of separating REE components are discussed by I. N. Znamenskiy (who is said to be the first in the USSR to develop methods of processing REE), . . V. P. Kotlyarov, E. P. Andreyeva, A. V. Rimskayev, and O. P. Aleksandrov. Quantitative X-ray spectral analytical methods are described by E. Ya. Yevzikhiyev, and chemical methods of analysis by I. P. Alimarin and F. I. Pavlotskaya. The determination of REE impurities in pure products and atomic materials are discussed at length in three articles by A. N. Zaydel' and his associates. All articles are accompanied by photographs, diagrams, tables, and bibliographic references.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

SENYAVIN, M.M.; KOLOSOVA, G.M.; PASHKOV, A.B.

Selectivity of ion exchange resins. Trudy kom. anal. khim. 11:406-410 '60. (MIRA 13:10)

1. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo AN SSSR.
(Ion exchange) (Resins, Synthetic)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, G.M.; CHEN YUAN'-PAN' [Ch'eng Yuan-p'an]; SENYAVIN, M.M.

Chromatographic separation of hafnium from zirconium and determination of hafnium by the isotope dilution method. Zhur.anal.khim. 15 no.3:364-366 My-Je '60. (MIRA 13:7)

1. V.I.Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.
(Hafnium) (Zirconium)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ALIMARIN, I.P.; BILIMOVICH, G.N.; BUSEV, A.I.; VAYNSHTEYN, E.Ye.; VOLYNETS, M.P.; GORYUSHINA, V.G.; DYMOV, A.M.; YELINSON, S.V.; ZVYAGINTSEV, O.Ye.; KOLOSOVA, G.M.; KORCHEMNAYA, Ye.K.; LEBEDEV, V.I.; MALOFEYEVA, G.A.; MELENT'YEV, B.N.; NAZARENKO, V.A.; NAZARENKO, I.I.; PETROVA, T.V.; POLUEKTOV, N.S.; PONOMAREV, A.I.; RYABUKHIN, V.A.; STROGANOVA, N.S.; CHERNIKHOV, Yu.A.; VINOGRADOV, A.P., akademik, otv. red.; RYABCHIKOV, D.I., doktor khim. nauk, prof., otv. red.; GUS'KOVA, O., tekhn. red.

[Methods for the determination and analysis of rare elements] Metody opredeleniia i analiza redkikh elementov. Moskva, 1961. 667 p. (MIRA 14:7)

1. Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii.
(Metals, Rare and minor)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, G.M.; SENYAVIN, M.M.

Determination of ion exchange constants based on the practice of chromatographic analysis. Report No.1: Determination of the constant of the cesium exchange on a KU-2 sulfo-cation exchanger. Zhur. anal.khim. 18 no.10:1178-1183 O '63. (MIRA 16:12)

1. V.I.Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.

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L 23899-65 EWT(m) Pc-4 FM

ACCESSION NR: AP5002573

S/[illegible]

[illegible] G.M.; Senyavin, M.M.

[illegible] constant of ion exchange as a [illegible] of ion [illegible] selectivity of sulfo cation exchange [illegible] numbers

[illegible] Khimii, v. [illegible]

[illegible] resin; sulfo cation exchange [illegible] resin crosslinkage; divinylbenzene polymer; alkali metal ion [illegible]

ABSTRACT: The equilibrium constant of ion exchange [illegible] cation system, was determined [illegible] degree of crosslinking. Kolor [illegible] was used to measure the equilibr[illegible] cation exchange resins [illegible] proportional to the content of [illegible] ions increased with the [illegible] with the except[illegible]

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

[illegible]

[illegible] the equilibrium constants for pairs of [illegible] calculated [illegible] exchange resins for separat[illegible] [illegible] was [illegible] crosslinking, and this [illegible] [illegible] figures, 2 tables and [illegible]

[illegible] geokhimii i analiticheskoy [illegible] [illegible] chemistry institute)

[illegible]Oct62 ENCL: 00 SUB CODE: GC

OTHER: 007

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

EWT(m)/EWP(t)/EWP(b) Pc-4 [illegible]
[illegible] AP5002583

[illegible] 3002/1003

[illegible]osova, G.M.; Senyavin, M.M.

[illegible]mination of ion exchange constants by [illegible] experiments; on [illegible]tants of the alkali metals on cation exchange [illegible] varying numbers of [illegible]

[illegible] fizicheskoy khimii, v. 38, no. 12, [illegible]

[illegible] alkali metal, hydrogen exchange, ion exchange [illegible] chromatographic [illegible] cross linkage, divinylbenzene [illegible]

[illegible]centration coefficients in [illegible] metal ions [illegible] several samples of [illegible] cross linkage [illegible]benzene content of 2 to 24 [illegible] results [illegible] form for Li^+, Na^+, K^+, [illegible] these [illegible] for the alkali metals from [illegible] increases [illegible] Exceptions to the latter pattern were [illegible] Na. Orig. [illegible] and 1 formula.

[illegible] institut geokhimii i analiticheskoy khimii [illegible] SSSR (Geo-analytical chemistry Institute, Academy of sciences [illegible]

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, T.

CA

10

PROCESSES AND PROPERTIES INDEX

Naphthalenesulfonic acids. I. Hydrolysis of naphthosultamdisulfonic acid. A. Volodarskii and I. Kolosova. *Anilinokrasochnaya Prom.* 5, 200-5(1935).—Naphthosultamdisulfonic acid is quantitatively hydrolyzed by boiling with an excess of 60% H_2SO_4. Using 27% H_2SO_4, the chief product is 1,8-$NH_2C_{10}H_5SO_3H$, further hydrolyzed to α-$C_{10}H_7NH_2$. B. C. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

AGANBEGYAN, A.G.; ARTAMONOV, T.A.; IOFFE, Ya.A.; SHEYNIN, Yu.M.; VASIL'YEVA, L., red.; KOLOSOVA, I., red.; DANILINA, A., tekhn.red.

[The U.S.S.R. and the U.S.A.; facts and figures] SSSR - SShA: faifry i fakty. Moskva, Gos.izd-vo polit.lit-ry, 1961. 132 p. (MIRA 14:3)

(United States--Statistics) (Russia--Statistics)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

5(2)

AUTHORS: Belyavskaya, T. A., Alimarin, I. P., Kolosova, I. F. SOV/75-13-6-9/21

TITLE: Separation of Titanium From Accompanying Elements by Means of Ion-Exchange Chromatography (Otdeleniye titana ot soputstvu-yushchikh elementov metodom ionoobmennoy khromatografii) Communication 3. Separation of Titanium and Zirconium (Soobshcheniye 3. Razdeleniye titana i tsirkoniya)

PERIODICAL: Zhurnal analiticheskoy khimii, 1958, Vol 13, Nr 6, pp 668-670 (USSR)

ABSTRACT: The authors of the present paper investigated the adsorption of tetravalent titanium and zirconium in ion-exchange resins in hydrochloric solution. The use of hydrochloric solutions is of interest in chromatography because frequently a slight modification of the acid concentration leads to a considerable difference in the adsorbability of elements the properties of which are very similar to each other (Refs 1-8). The adsorbability was investigated by determination of the distribution coefficients. Here, an exactly weighed sample of the air-dried exchange resin is shaken with a certain volume

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of the solution to be investigated until equilibrium is attained. From an aliquot of the solution the amount of the element is determined that has not been adsorbed by the resin. The distribution coefficient φ is computed according to the formula

$$\varphi = \frac{M_1}{M - M_1} \cdot \frac{V}{m} \quad \text{(Ref 9)},$$

where M_1 is the adsorbed part of the element in mg, M the total amount of the element in mg contained in the initial solution, V the volume of the solution and m the quantity of the resin. The authors determined the relative adsorption of titanium and zirconium by this method. V and m were kept constant. As adsorbents the cation exchange resins SBS and KU-2 (both in the H-form) and the anion exchange resins EDE-10 and AN-2F (in the Cl-form) were used. The content of titanium in the equilibrated solutions was determined photometrically with chromotropic acid, the content of zirconium with arsenazo.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

Separation of Titanium From Accompanying Elements by Means of Ion-Exchange Chromatography. Communication 3. Separation of Titanium and Zirconium SOV/75-13-6-9/21

It was found that neither titanium nor zirconium were adsorbed by the two anion exchange resins in 0.1 - 6 n hydrochloric solution. In dilute hydrochloric solution (0.1 - 1 n) zirconium is quantitatively adsorbed at both cationites used. That indicates that zirconium under present conditions is present in the form of positive ions. On the increase of the acid concentration a slight difference occurs in the adsorption at the two cationites. The resin SBS adsorbs Zr to a very small extent even in the stronger acid solution. There is only a small adsorption of titanium in 0.1 - 1 n hydrochloric solution, in stronger acid solutions there is no adsorption any more. On the basis of the different adsorption of titanium and zirconium in 1 n hydrochloric solution at the cation exchangers KU-2 (Zr is quantitatively adsorbed, Ti not at all) a method of quantitative chromatographic separation of titanium and zirconium at concentration ratios of Ti : Zr as 1000 : 1 up to Ti : Zr as 1 : 10,000 was devised. The separation occurs in 1 n hydrochloric solution; zirconium is washed out from the exchanger by 4 n HCl .

Card 3/4

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

Separation of Titanium From Accompanying Elements. SOV/75-13-6-9/21
by Means of Ion-Exchange Chromatography.
Communication 3, Separation of Titanium and Zirconium

After the separation neither titanium in the solution of zirconium, nor zirconium in the solution of titanium could be found. The use of the resin SBS cannot be recommended since, first the elution of the same quantity of titanium requires an amount of 1n HCl that is 2.5 times higher, secondly, because Zr could be eluted by 4 n HCl only up to 80-85%. The procedure of the separation is described in detail. There are 2 tables and 19 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: October 22, 1957

Card 4/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

S/189/63/000/001/007/008
D204/D307

AUTHORS: Kolosova, I. F. and Belyavskaya, T. A.

TITLE: A study of the complex formation by beryllium, by the ion-exchange method. Communication II

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 1, 1963, 52-57

TEXT: A continuation of earlier work (Vestn. Mosk. un-ta, ser. khimii, no. 5, 55, 1962). The present study was concerned with the behavior of Be in HNO_3 and HCl and was motivated by shortage of literature data. Ion-exchange resins КУ-2 and АВ-17 (2% ДВВ) (KU-2 and AV-17 (2% DVB)) were used, with grain size 0.1 - 0.25 mm; the acids were purified and Be^7 was employed. The procedure was that used previously. In HNO_3, the conditions were chosen to avoid hydrolysis and polymerization: the ionic strength $\mu = 0.5$, $[H^+] = 0.1$, $Be^{2+} = 10^{-6}$, and the temperature was maintained at 18 ± 0.1°C. Complexes

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

A study of the ... S/189/63/000/001/007/008
D204/D307

$BeNO_3^+$ and $Be(NO_3)_2$ formed, with stability constants of respectively 0.25 ± 0.05 and 41.6 ± 2.6. Three chloride complexes formed in HCl, at $\mu = 0.5$ $[H^+] = 0.1$ and $[Cl^-] = 0.5 - 0.01$ moles/l and a temperature of 18 ± 0.1°C, with stability constants $BeCl^+$ - 12.9 ± 0.2, $BeCl_2$ - 2.0 ± 0.5, and $BeCl_3^-$ - 25.0 ± 0.5. Be is thus more susceptible to complexing in HCl solutions. The authors express their gratitude to I. N. Marov for his advice. There are 4 figures and 3 tables.

ASSOCIATION: Kafedra analiticheskoy khimii (Department of Analytical Chemistry)

SUBMITTED: March 19, 1962

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, I.F.; KOLOSOV, I.V.

Isolation of the radioactive Be^7 isotope from cyclotron targets.
Atom. energ. 15 no.5:422-423 N '63. (MIRA 16:12)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, I.F.; BELYAVSKAYA, T.A.

Complex formation of beryllium with certain γ-hydroxy acids.
Zhur.neorg.khim. 10 no.4:764-771 Ap '65. (MIRA 18:6)

1. Moskovskiy gosudarstvennyy universitet, khimicheskiy fakul'tet, kafedra analiticheskoy khimii.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

S/0075/64/019/009/1162/1163

Belyavskaya, T. A.; Kolosova, I. F.

determination of beryllium using beryllon II

27

Beryllon II spectrophotometric analysis

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art. has: 1 figure and 1 table.

Card 1/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

L 10379-65
ACCESSION NR: AP4045849

ORIGINATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 29Nov63 ENCL: 00

SUB CODE: GC NO REF SOV: 004 OTHER: 010

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

BELYAVSKAYA, T.A.; KOLOSOVA, I.F.

Beryllium complex formation with glycolic, lactic, and mandelic acids. Zhur. neorg. khim. 10 no.2:441-445 F '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet, khimicheskiy fakul'tet, kafedra analiticheskoy khimii. Submitted July 19, 1963.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

AM4020394 BOOK EXPLOITATION S/0783

Galitskiy, B. A.; Abelev, M. M.; Kolosova, L. P.; Toropov, V. A.; Shevelkin, B. N.

Titanium and its alloys in the chemical engineering industry (Titan i ego splavy* v khimicheskom mashinostroyenii) Moscow, Mashgiz, 1963. 263 p. illus., biblio. 2500 copies printed. Reviewer: Dombe, Yu. I.; Editor: Skvortsov, Ye. Ye. (Engineer); Deputy editor: Ry*bakova, V. I. (Engineer); Editor of the publishing house: Tairova, A. L.; Technical editors: El'kind, V. D.; Makarova, L. A.; Proofreader: Piryazev, P. A.

TOPIC TAGS: Titanium, titanium alloy, chemical engineering, machining of titanium, forming of titanium, welding of titanium

PURPOSE AND COVERAGE: This book was written for engineers and technicians at industrial establishments, design bureaus, and scientific-research institutes connected with the chemical engineering industry, as well as for engineers and technicians in industrial establishments utilizing chemical apparatus and equipment. It may be of use also as a study aid for students in machine-design vuzes and technicums. The construction of chemical equipment made of titanium is

Card 1/2

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AM4020394

analyzed, and the special characteristics of the machining, forming, and welding of titanium and its low alloys utilized in the chemical engineering industry are outlined.

TABLE OF CONTENTS:

Foreword - - 3
Ch. I. Titanium and its alloys used in the chemical engineering industry - - 5
Ch. II. Designs of chemical apparatus and equipment made of titanium - - 39
Ch. III. Machining titanium and its alloys - - 106
Ch. IV. Forming titanium and its alloys - - 139
Ch. V. Welding titanium and its alloys - - 185
Ch. VI. Special equipment used in the manufacture of chemical apparatus - - 232
Literature - - 260

SUB CODE: MM, GC SUBMITTED: 30Sep63 NR REF SOV: 043

OTHER: 016

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

NIMTSOVICH, A., inzh.; KOLOSOVA, K., inzh.

Using petrolatum for impregnating wooden parts of electic equipment. Tekh.-ekon.biul no.1/2:33-36 Ja-F '59. (MIRA 12:4)
(Wood--Preservation)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, K.D.

112-3-5791

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957 Nr 3, p. 106 (USSR)

AUTHORS: Kaganov, L. M., Kolosova, K. D.

TITLE: Experience in Using Organo-silicon Insulation (Opyt primeneniya kremniyorganicheskoy izolyatsii)

PERIODICAL: Inform.-tekhn. sb. M-vo elektrotekhn. prom-sti SSSR, 1956, Nr 1 (85) pp. 3-8

ABSTRACT: A large group of insulating materials based on organo-silicon compounds has been developed. They possess good dielectric and mechanical properties, which they retain when subjected to high temperature, moisture and oil. The use of organo-silicon materials for insulating motor windings results in greater reliability and provides a longer period of service, with an increase in power in certain cases. The following organo-silicon materials are used in the manufacture of electric motors: 1) lacquers ЭФ-3 and ЭФ-5 (TY MXП 2300 - 53); 2) enamel ПКЭ - 14; 3) elastic vitreous micanite on lacquer ЭФ-5 with a thickness of 0.3 mm; 4) glass-and-mica band on lacquer ЭФ-5 with a thickness of 0.17 mm, and others. The technique for manufacturing electric motors with organo-silicon insulation is basically the

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112-3-5791

Experience in Using Organo-silicon Insulation (Cont.)

same as with ordinary insulation, except for drying and impregnation. The organo-silicon lacquers and enamels are dried at a temperature of 180-190° to obtain suitable properties of dielectric strength and resistance to oil and moisture. Included is a detailed discussion of the construction and production technique of organo-silicon insulation for motors with a mush winding of round magnet wire ПСДК and of organo-silicon and "MA 191/10K" insulation for a tapped winding made of rectangular magnet wire ПСДк. L. A. Ya.

ASSOCIATION: Ministry of Electrical Industry of the USSR (M-vo elektrotekhn. prom-sti SSSR)

Card 2/2

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, K.G.; MOSTOSLAVSKIY, M.S.

Technical creativeness in chemistry as a means of student training. Khim.v shkele 18 no.2:46-50 Mr-Ap '63. (MIRA 16:4)

1. Srednyaya shkola No.123, Leningrad.
(Chemistry--Study and teaching)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ZHURAVLEV, V.A.; KOLOSOVA, L.G.

Distribution of the thermal EMF over a copper oxide surface as related to its catalytic activity. Kin. i kat. 5 no.2: 293-298 Mr-Ap '64. (MIRA 17:8)

1. L'vovskiy gosudarstvennyy meditsinskiy institut.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

NR: AR3010279 S/0081/63/000/012/0087/0087

[illegible]

[illegible]

[illegible]

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

AR[illegible]10279

[illegible] catalyst during catalytic decomposition of H_2O_2 over a [illegible] catalyst.

ENCL: [illegible]

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

ITENBERG, I.M., red. atlasa; BOYKOVA, N.S., red. kart; KOLOSOVA, L.N., red. kart; SEMENOVA, V.D., red. kart; SMIRNOVA, T.N., red. kart; BUKHANOVA, A.V., tekhn. red.; KUZNETSOVA, O.L., tekhn. red.; SKALICHEV, A.T., tekhn. red.

[World atlas] Atlas mira. Moskva, 1961. 165 p. of col. maps (part fold.), 128 p. (MIRA 14:10)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Atlases)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

BOGOMOLOV, S.G.; PEMOVA, F.D.; KOLOSOVA, L.P.

"Last lines" of the spectrum of 3,4-benzopyrene dissolved in normal hydrocarbons at various temperatures. Izv.AN SSSR 24 no.7:725-727 Je '60. (MIRA 13:7)

1. Sverdlovskiy meditsinskiy institut.
(Benzopyrene--Spectra)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

AVDEYENKO, V.P.; KOLOSOVA, L.P.; OBORINA, Z.I.; MOISEYEVA, A.G.

Determination of phenols in water from their ultraviolet absorption spectra. Koks i khim. no.3:49-50 '62. (MIRA 15:3)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Phenols—Spectra)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

MUZYLEV, S.A.; KOLOSOVA, L.P.; NALIVKIN, D.V., glavnyy red.

[Geological map of the U.S.S.R.] Geologicheskaia karta SSSR. Sostavlena pod rukovodstvom S.A.Muzyleva i L.P.Kolosovoi. Glav. redaktor D.V.Nalivkin. Leningrad, 1955. 10 l. (MIRA 12:3)

1. Leningrad. Vsesoyuznyy geologicheskiy institut.
(Geology--Maps)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

MUZYLEV, S.A.; KOLOSOVA, L.P.; NALIVKIN, D.V...glavnyy red.

[Geological map of the U.S.S.R.] Geologicheskaia karta SSSR. Sostavlena pod rukovodstvom V.N.Vereshchagina, L.P.Kolosovoi, S.A.Muzyleva. Glav.redaktor D.V.Nalivkin. Leningrad, 1956. 19 l. (MIRA 12:3)

1. Leningrad. Vsesoyuznyy geologicheskiy institut.
(Geology--Maps)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, L.P.

USSR/ Engineering-Welding

Card : 1/1

Authors : Kazennov, Yu. I., Cand. of Tech Sciences; Krutikov, A. N., Engineer; Kolosova, L. P., and Dmitriev, P. T.

Title : Ways of increasing production in manual arc-welding of acid-resistant steels type 18-8

Periodical : Vest. Mash. 34/5, 74 - 77, May 1954

Abstract : For the purpose of speeding up production researches were conducted in the arc-welding of steel, with 3-phase current of increased amount, using multiple electrodes. The larger flow of current increases the amount of melted material and speeds up the welding process. Each step is explained and formulas are given. It was found that the multiple-arc method increased the production by 50%. Seven Russian references, latest 1951. Tables; graphs.

Institution : ....

Submitted : ....

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, L.P.

USSR /Chemical Technology. Chemical Products and Their Application Corrosion. Protection from Corrosion. H-4

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1597

Author : Kazennov Yu. I., Kolosova L.P.

Title : Some Data Concerning the Resistance to Intercrystallite Corrosion of Pure-Austenite Steels Containing 23% Chromium and 23-28% Nickel

Orig Pub: Avtomat. svarka, 1957, No 2, 11-21

Abstract: A study of the questions concerning the effects of heating, during welding, on the resistance to intercrystallite corrosion (IC) of the steels Kh23N23M3D3, Kh23N27M3D3T and Kh23N27M2T. Unutilized Kh23N23M3D3 steel, containing 0.06-0.09% C after

Card 1/4

Sci Res Inst. Chem. Machinebuilding

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

USSR /Chemical Technology. Chemical Products and Their Application Corrosion. Protection from Corrosion. H-4

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1597

a short duration isothermal heating, for a period amounting to seconds, at 600-800°, shows a tendency to IC. Even with a content of 0.2% C this tendency to IC exceeds 5 minutes. Under conditions of welding the time during which the metal is maintained in the dangerous temperature range can exceed 2 minutes. Even in the case of a single-pass seam the steel Kh23N23M3D3 revealed a tendency to IC within the zone of the thermal treatment. In the case of Kh23N27 M2T steel conflicting results were obtained. In individual fusions no tendency to IC was detected even after a 2-hour tempering in the dangerous temperature range. In some fusions an increased content of carbonitride phase was found to be present, which

Card 2/4

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

USSR /Chemical Technology. Chemical Products and Their Application Corrosion. Protection from Corrosion. H-4

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1597

enhancement of the resistance of Kh23N23M3D3 steel to IC are considered. A stabilizing annealing does not ensure resistance in every instance. Incorporation of stabilizing elements is preferred. The conclusion is reached that steels of this type, of chemical composition that is prescribed at the present time, will not find an extensive use in the production of welded equipment.

Card 4/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, L.P.

KAZENNOV, Yu.I.; KOLOSOVA, L.P.

Metallurgic characteristics of welding acid-resistant austenite steels with 23 chromium and 23-28 nickel. Avtom. svar. 10 no.2:22-31 Mr-Ap '57. (MIRA 10:6)

1. Nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya
(Chromium-nickel steel--Welding)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823930003-3

KOLOSOVA, L.P.

SOV/81-59-16-57432

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 260 (USSR)

AUTHORS: Kazennov, Yu.I., Shvarts, G.L., Akshentseva, A.P., Kolosova, L.P., Kuznetsova, Yu. M.

TITLE: On the Application of Non-Stabilized Acid-Resistant Chromium-Nickel Steels Containing Copper

PERIODICAL: Sb. statey. Vses. n.-i. i konstrukt. in-t khim. mashinostr., 1958, Vol 25, pp 57-74

ABSTRACT: Experimental data have shown that: 1. The Kh23N23M3D3 steel with a content of C $>$ 0.06% acquires an inclination to intercrystallite corrosion (IC) after short-time heating in the range of 600 - 900°C. The longer is the heating, the broader the dangerous temperature range. 2. The time of the stable state during heating in the dangerous range of temperatures is the longer, the lower the C content in the steel. 3. The introduction into the steel of Mo in quantities exceeding even 25 times its amount in relation to C shows no stabilizing effect. The Kh18N28M3D3 steel acquires also an inclination to IC after short-time heating in the dangerous temperature range in spite of the fact that the C content in it is only 0.03% in all. Apparently the appearance of an inclination to IC in the Kh23N23M3D3

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On the Application of Non-Stabilized Acid-Resistant Chromium-Nickel Steels Containing Copper

steel is caused by the separation of a non-equilibrium finely-dispersed carbide phase on the grain boundaries and by the presence of inner stresses of the third class which arise in the crystalline lattice of austenite around the separated dispersed carbide phase. It has been noted that the addition of stabilizing elements (Ti and Nb) to the given steels does not exclude the separation of intercrystallite excess phases in short-time heating. Directly before welding operations, stabilizing tempering can be carried out by the plant which produces the apparatus.

I. Moroz.

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Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No 1, pp 139-140, # 942

AUTHORS: Kazennov, Yu.I., Kolosova, L.P.

TITLE: Weldability of Austenite Steels Stable in Phosphate Acid

PERIODICAL: Tr. Vses. n.-i. i konstrukt. in-t khim. mashinostr., 1958, No 26, pp 82 - 106

TEXT: The authors studied problems on the weldability of pure austenite steel grades, such as X23H3M3A3 (Kh23N3MZDZ), X23H27M2T (Kh23N27M2T), and X23H28M3A3 T (Kh23N28MZDZT), of 2.5 - 13 mm thickness which are stable in phosphoric and nitrosyl-sulfuric acid. It is shown that these steels are strongly affected by welding and short-time isothermal heating; this is manifested mainly in the developing proneness to crystallite corrosion. For the manufacture of welded structures the authors recommend the use of steel smelts which after 10-minute tempering at 700°C, are not prone to crystallite corrosion. In a series of smelts of the investigated steels the authors revealed the

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Weldability of Austenite Steels Stable in Phosphate Acid

development of secondary resistance to crystallite corrosion after relatively short time heating (20 min - 50 hrs) within a temperature range of 650° - 800°C. It is noted that Mo and W in these steels and in the weld joints do not have a stabilizing effect. Metallurgical peculiarities of various grades of this steel are analyzed. Data are presented on the transition of alloying elements, sensitivity of seams to crystallite corrosion, and proneness of seams to hot cracks. It is shown that with a higher C content cracking first increases and then, when the amount of carbide eutectics becomes sufficient for the "healing" of microcracks, crack formation decreases. If the Si content in the seams exceeds 0.3 - 0.4% they are totally affected by hot cracks (in rigid joints); Nb has the same effect. In addition to S and P, intensified cracking is furthered also by Cu (> 4%), Al (> 1%), and some other elements. On the basis of experimental data the following composition of the seam is recommended, which is less prone to hot cracks and resistant to crystallite corrosion: C < 0.06%, S < 0.015%, P < 0.020%, Si up to 0.25%, Nb up to 0.7% [12C], Cu up to 3.5%; Ni, Cr, Mo within the limits of the grade composition

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