SOV/135-58-12-2/20

Problems in the Development of Electric Arc Welding Equipment

by V.M. Shchitova, Ye.I. Slepushkin and V.T. Belik), which was tested and successfully used on modernized automatic machines for welding under flux and in carbon dioxide. The development of new types of rectifiers with stable characteristics and devices for arc voltage control is necessary. There are 2 graphs, 1 circuit diagram, 1 photo, 1 table and 5 Soviet references.

ASSOCIATION: Tsentral'naya nauchno-issledovatel'skaya laboratoriya elektricheskoy obrabotki materialov AN SSSR (Central Scientific Research Laboratory for the Electric Treatment of Materials; AS USSR)

Card 2/2

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| chaniye po kompleka hnologicheskidh pro trizatinya maninosi trizatinosi trizat | So(1) PHASE I Sove anchanity po kompleke technologiche skilkh pro Avtoastizatsiya anshinost conference on Over-Alilo Ed. John printed. Sponsoring Agency: Academical Should Ed. of Publishing Hour FURPOSS: The book is in metallurgits. COVERADE: The transacti appearation and Automatic Balkovets D.S. and V. I S. H. Pollovet D.P. IV B. J. Pollovet D. S. and V. I B. Shortence D. S. and V. I B. Shortence D. S. and V. I E. Shortence D. S. Shortence D. Shortence D. I E. Shortence D. J. J. J. J. Selfing of Phenomenon Appinder, S. B. Cold Webl. AVAILABLE: Librery of C. Card B/B Card B/B. | | | BOOK EXPLOITATION | noy methanizatait i taeasov. 2nd, 1956. | roitel'nykh protaes: 1 Goryachaya obrabo "Building Processes: Mechanistion and Hot Metal-Porsing) | miya nauk SSSR. In | Academiciani Company V.A. Kotov; Tec | tended for mechanica | ons of the Second Go omation of Industria have been published | n articles under the he investigations de lons for Automation | anov and of or of | | - | t of Automatic Weldiate the Man | 19. Bauman) on Autom | bbinovich, Ye. I. Si tema for Autometing | ion of Arc Welding 1 | Weld Seas of Wear-Re | selding or Articles of the All-Union S | ion of Welding Proc | ration and Automati | Petals and Utiliza | | 2 2. 2 uc | | |
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VLADIMIRSKIY, T.A., doktor tekhn.nauk; VROBLEVSKIY, R.V., inzh.; GLEBOV, L.V., inzh.; GODIN, V.M., kand.tekhn.neuk; GUZOV, S.G., inzh.; GULYAYEV, A.I., inzh.; YERSHOV, L.K., inzh.; KOCHANOVSKIY, N.Ya., kand.tekhn.nauk; LYUBAVSKIY, K.V., prof., doktor tekhn. nauk; PATON, B. Ye., akademik, prof., doktor tekhn. nauk; RABINOVICH, I. Ya., kand. tekhn. nauk; RADASHKOVICH, I.M., inzh.; RYKALIN, N.N., prof., doktor tekhn.neuk; SPECTOR, O.Sh., inzh.; KHRENOV, K.K., akademik, prof., doktor tekhn.nauk; CHERNYAK, V.S., inzh.; CHULOSHNIKOV, P.L., inzh.; SHORSHOROV, M.Kh., kand.tekhn.nauk; BRATKOVA, O.N., prof., doktor tekhn.nauk, nauchnyy red.; BRINBERG, I.L., kand.tekhn.nauk, nauchnyy red.; OKL MAN, A.S., prof., doktor tekhn.nsuk, nauchnyy red.; KONDRATOVICH, V.M., inzh.; nauchnyy red.; KRASOVSKIY, A.I., kand.tekhn.nauk, nauchnyy red.; SKAKUN, G.T., .kand.tekhn.nauk; nauchnyy red.; SOKOLOV, Ye.V., inzh., red.; IVAHOVA, K.N., inzh., red.izd-va; SOKOLOVA, T.F., tekhn.red.

> [Welding handbook] Spravochnik po svarke. Moskva, Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry. Vol.1. 1960. 556 p. (MIRA 14:1)

1. AN USSR (for Paton, Khrenov). 2. Chleny korrespondenty an assR (for Rykalin, Khrenov).

(Welding-Handbooks, manuals, etc.)

S/775/62/002/000/011/011

AUTHORS: Kasprzhak, G.M., Rabinovich, I. Ya., Sidorkov, V.B.

New rectifier circuits for arc welding. TITLE:

Avtomatizatsiya protsessov mashinostroyeniya. t. 2: Goryachaya obrabotka metallov. Moscow, Izd-vo AN SSSR, 1962, 246-265. SOURCE:

The paper surveys various types of rectifier circuits for manual and automatic welding (WG) with reference to the anticipated general adoption of semiconductor-type rectifiers. Analysis of typical WG-rectifier circuits: The external V-I characteristics of rectifiers used for manual arc WG with coated electrode, automatic flux welding, and gas-shielded automatic and semiautomatic WG are briefly described, and the effects of the open-circuit V and the V-I slope on arc ignition and process control are discussed, including the transient problems occurring in self-regulating systems, especially with flat or rising characteristics. Fundamental principles of rectifier-circuitry selection and development: The TSNILELEKTROM of the State Committee of the Council of Ministers, USSR, for Automation and Machine Building has established the following fundamental principles for the development of new WG-rectifier circuits: (1) They must be applicable universally for the above-mentioned types of WG; (2) to minimize the power installed

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New Rectifier circuits for arc welding.

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and the number of semiconductor (SC) valves, the external V-I characteristic must be gently descending, and an elevated open-circuit voltage (60-70 v) is to be provided by special arc-ignition devices; power fractioning is to be accomplished by boostertransformers, with a suitable stabilizing choke in the rectified-current line. One of the resulting WG rectifiers is shown in a full-page circuit diagram and is described in detail. Details of the booster-transformer circuitry, intended for symmetrical voltage regulation, are shown pictorially. The arrangement affords 20 steps of voltage regulation (2 figures), with a saving of 30-50% of active materials, an 8-12% increase in efficiency, and a power factor of 0.8-0.85, as compared with circuits in which saturation chokes in the a.c. circuit are used. Details of the arc-ignition transformer-rectifier complex are explained. Oscillograms are shown to illustrate the improvement in current control achieved. It is shown how the circuitry employed improves the response to sudden changes in arc length. Universal BCK- (VSK-) type WG rectifiers: The criteria developed in the foregoing chapter were translated at the TsNILELEKTROM into the VSK-type 150-a, 300-a, and 500-a universal rectifiers. A design analysis is provided, with especial emphasis on the features specified in the criterial chapter. The characteristics of the three rectifiers are tabulated. An experimental prototype of the VSK-150-III rectifier was built in 1958 and subjected to tests which showed (2 full-page graphs) that: (1) The external characteristic remains absolutely hard (flat), since the total equivalent resistance of the

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New Rectifier circuits for arc welding.

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rectifier remains practically unvaried; (2) a slight increase in a/v slope occurs in the circuit with two parallel valve blocks, which is attributed to a nonlinearity of the internal resistance of the valves; (3) the efficiency with two valve blocks rises from 67 to 72% in the nominal regime (150 a, 23 v) and with practically unchanged power factor (0.82); (4) the test data confirm the design assumptions. Test data are summarized in a table. Oscillograms illustrate the process. The experimental prototype was followed by experimental batches of VSK-150 and VSK-300 issued by the TsNILELEKTROM; since 1961 VSK-300 rectifiers have been mass-produced by the Dnepropetrovsk plant of mining-automation equipment. Conclusions are stated on the particular features of the VSK-type rectifier which afford it excellent arc-ignition, applicability in a wide range of welding jobs, stability of operation, and conservation of active materials and power. There are 11 figures, 2 tables, and 5 Russian-language Soviet references.

ASSOCIATION: None given.

Card 3/3

RABINOVICH, I.Ya., doktor tekhn.nauk; VAVULO, I.V., inzh.

Electric and technological characteristics of a three-phase welding arc in argon-arc welding of aluminum alloys. Svar. proizv. no.10:7-10 0 '63. (MIRA 16:11)

。 1. 我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个

RABINOVICH, I.Ya.

Results in application of urosulfanilaride preparations in treatment of chronic supurative otitis and wounds following radical operations. Vest.otorinolar. 13 no.1:77-78 Jan-Feb 51. (CLML 20:5)

1. Candidate Medical Sciences.

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| List of | Russian | Accessions, Li | brary of | Congres | s, June 19 |) 52• | Unclassi | fied. | |

| Moskva 14 no. 3:42-46 May-June 1952. (CIME 22:4) 1. Docent. 2. Sverdlovsk. | 이 얼마는 이 이번에 이 보면에 이번 이번을 하여 있다. 나는 이 그를 하면 함께 먹는 가는 모델했다. | Nitrous oxide inhalation anesthesia in otolaryngology. Vest. otorinolar., Moskva 14 no. 3:42-46 May-June 1952. (CIMI 22:4) |
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| | | 그는 회사는 사람들은 회사 이 사람들이 되는 것도 하는 것이 되었다. 그 하는 경기 등에 가장 되었다면 하다. |
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| | 되었다. 그는 사람들은 마음이 있는 것은 사람들은 사람들이 되었다. 그는 사람들이 되는 것이 되었다. 그는 사람들이 되었다. 그는 사람들이 모르는 것이다. 사람들이 하나 사람들이 되었다. 그는 사람들이 나는 사람들이 되었다. 그는 사람들이 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. | 그들이 그는 어느에 가는 이 그는 아는 아는 아는 아는 아는 이 아는 아는 아는 아는 아는 아는 아름다운 함께 하다. |
| 그렇게 그렇게 되는 것 같아. 그는 점점 그리고 있는 것 같아. 이번 사람들은 그리고 있는 것이 하는 것 같아. 그는 것 같아. 그런 그리고 있는 것 같아. 그리고 있는 것 같아. | 가게 되는 것이 되는 것이 되는 것이 되는 것이다. 사람들이 되었다고 있다면 되는 것이 되는 것이 되었다. 그는 것이 되었다면 되었다면 함께 되었다. 1980년 1일 | 그런데 그는 어느 이 가는 아는 아는 아는 아는 아느라는 이 아니아 그는 경우 목숨이는 속 점점을 충격하는 |
| | 그렇게 되어 보는 사람들은 그들이 들어 들어 되었다. 이 아니는 아니는 아이를 하고 있는 것이 없다는 사람들은 점에 많아 불성하는 점에 가지 않는데 없다. | 그리스 하스 사람이 들어가 하는 이번 하는 학교에는 하는 하는 사람이 사고를 통해 보고 한다고 한다고 한다. |

ANDREYEV, Boris Ivanovich; LEDOVSKIKH, Stepan Ivanovich; RABINOVICH, Isaak Yevgen'yevich; SOKOLOV, M.N., retsenzent; SHIBANOVA, A.A., red.; PODOL'SKAYA, M.Ya., red.kart; KREYS, I.G., tekhn. red.

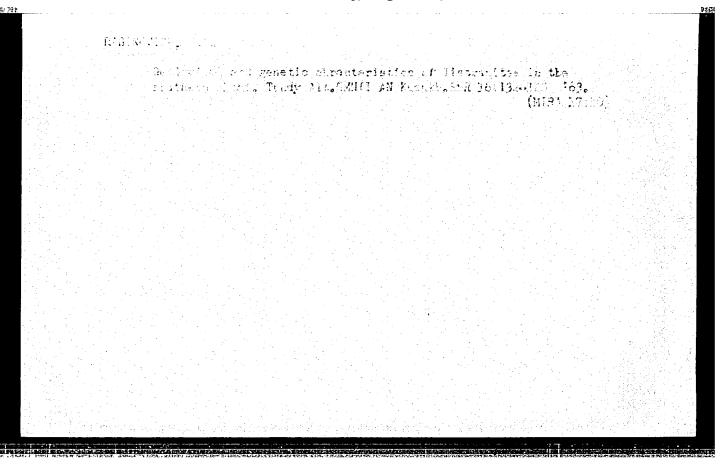
[Essays on economic geography: Austria, the German Federal Republic, and Switzerland] Ocherki ekonomicheskoi geografii: Avstriia, Federativnaia Respublika Germanii, Shveitsariia. Moskva, Uchpedgiz, 1963. 229 p. (MIRA 17:2)

| Forensic psychiat tion and their de Probl.sud.psikh. | ric evaluation of grave forms of limitation from so-called patho 9:438-452 | of alcoholic intoxica- plogical intoxication. (MIRA 15:2) | |
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RABINOVICH, K. R.; GREKHOV, G.F.

Geological structure presence and prospects of ore in the southeastern part of the Irtysh shear zone. Trudy Alt. (MIRA 14:6)

1. Altayskiy gornometallurgicheskiy nauchno-issledovatel'skiy institut AN Kazakhskoy SSR (for Rabinovich). 2. Vostochno-Kazakhstanskoye geologicheskoye upravleniye (for Grekhov). (Irtysh Valley-Geolgy, Structural)



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RABINOVICH, K. Ye. Cand Agr Sci -- (diss) "Mobile phosphates, methods of determining them, and factors of them conversion in soils." Mos, 1959. 19 pp (Acad Sci USSR. Soil Inst im V. V. Dokuchayev), 150 copies (KL, 52-59, 123)

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            Ch. II - GOLOSTEMOV, G. A., Boh. of Eng. Sci., and DESGIS ES, T. V. Eng.
            Ch. III - PELL!, V. G., Boh. of Eng. Sci., and RABINOVISH, Kh. A. Eng.
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            Ch. VI - FELL!, V. G., Beh. of Eng. Sci.
Ch. VII - CSECLECY, I. W., Beh. of Eng. Sci., and SCECLGY, S. A. Eng.
            Ch. VIII - RADCHIK, B. I., Eng.
            Ch. IX - GOEDIYCHUK, I. B.
            Ch. X - TOTMACHEV, V. A., Eng.
  Full Title: TECHNIQUE OF CIMEMATOGRAPHY
               Series: Accomplishments of Soviet Cinema Technique
  Transliterated Title: Kinos'emochnaya tekhnika
                          Seriya: Dostizheniya sovetskey kinotekaniki
Publishing Data
  Originating Agency: None
  Publishing House: State Publishing House of Cinematographic Literature (Goskinoizdat)
                                                              No. copies: 10,000
  Date: 1953
                                   No. pp.: 462
  Editorial Staff
                                                              Tech. Ed.: Mone
    Editor: None
                                                              Appraiser: None
    Ed.-in-Chief:
                   Coldovskiy, E. M.,
                    Dr. of Technical Sciences
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Card 2/2

Call No.: AF546574

BILL Title: TEXAMINE OF CITEMAT GRAPHY

Series: Accomplishments of Soviet Cinema Technique

Text Data

Coverage:

The book is the fourth in the series "Accomplishments of Soviet Cinema Technique" and describes the basic methods of taking colored metion pictures. The technique for black-white photography was given in the three previous books. A description of the combined and special types of production now adopted in Soviet cinema studios and the technique of cinema stage settings will be published in one of the following issues of the series.

The book primarily describes the lighting equipment, lenses and deflectors, electric power units for light effects, and arrangements for color-photographic balances of different intensities. The book also gives brief data on: apparatus for normal and synchronic methods of taking pictures; narrow and broad films; tripeds of various types; controlling method and mechanisms in cinematographic apparatuses.

Purpose: General information for wide circle of specialists in motion pictures. Pacilities: Scientific Research Institute for Notion Pictures and Photography (N.I.K.F.I.); cinema-studios in Moscow and Leningrad regions.

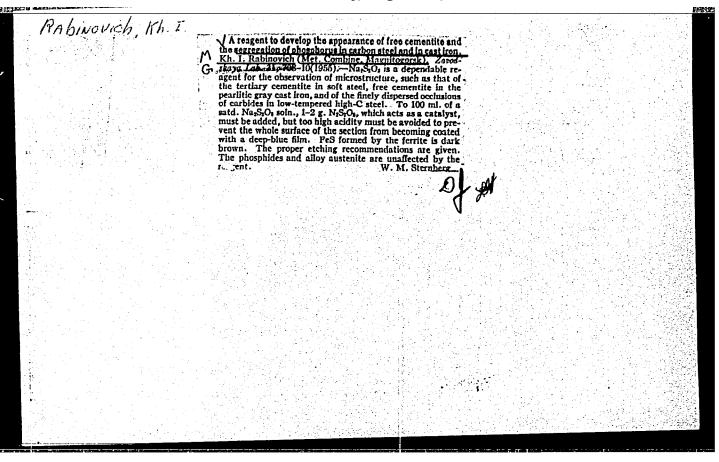
No. Russian References: Mone

Available: A.I.D., Library of Congress.

PELLI, V.G.; RABINOVICH, Kh.A. Efficient utilization of electric power filming motion pictures. Tekh.kino i telev. 4 no.4:22-27 Ap '60. (MIRA 13:9) 1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut i kinostudiya "Mosfil'm." (Motion pictures--Lighting) (Mectric power)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343



RABINOVICH, KAI

SOV/137-58-8-16554

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr. 8, p 46 (USSR)

AUTHORS: Zborovskiy, A.A., Strelkov, L.K., Skul'skiy, M.K.,

Rabinovich, Kh.I.

TITLE: Employment of Autoradiography Methods in Determination of

the Rate of Solidification of Ingots of Rimmed and Killed Steel (Opredeleniye skorosti zatverdevaniya slitkov spokoynoy i

kipyashchey stali metodom avtoradiografii)

PERIODICAL: V sb.: Staleplavil'n. proiz-vo, Moscow, Metallurgizdat,

1958, pp 184-196

ABSTRACT: Radioactive Fe⁵⁹ was introduced into killed steel at different intervals of time following the casting of this steel into a

2400-mm high mold equipped with a lined cover and having the following dimensions: 760x680 mm (bottom) and 720x510 mm (top). Experimental ingots were rolled into square billets (120 mm per side), specimens were taken along the length of the rolled billet, and 5-mm thick transverse templets were cut from it for purposes of radiographic studies. Assuming that

the ratio of the surface of activated zone to the surface of a

Card 1/2 transverse section of the ingot remains unchanged during

SOV/137-58-8-16554

Employment of Autoradiography Methods (cont.)

rolling, radiograms were employed in the computation of the thickness of a layer which had solidified by the time the isotope was introduced. The data obtained coincide almost completely with the curve $D=2.6 \sqrt{t}$, where D is thickness of the solidified layer of metal (expressed in mm); t is the time (in minutes) which has elapsed after the mold had been filled; 2.6 (cm/min) is the solidification constant of the steel in a cast-iron mold (obtained by the method of overturning of analogous ingots). When the molds with the ingots were not disturbed until the metal had solidified completely and the isotope was introduced into the ingot in three successive portions, four boundaries of isotope distribution, i.e., four zones of activity (the maximum activity being in the central zone) were observed in all but one experiment. It is assumed that the appearance of an "extra" zone is the result of intensified agitation of metal during the displacement (shaking) of the molds, a fact which may, therefore, have an adverse effect on distribution of liquates in an ingot. The crystallization of rimmed steel was investigated in an analogous manner by introducing radioactive isotopes of Fe or S into ingots weighing 6.9 tons. In computing the thickness of the solidified layer, the volumetric reduction of metal which occurs during rolling, apparently, was not taken into consideration with sufficient accuracy because the results obtained diverge somewhat from the values obtained by means of the "Chipmen" form-2. Steel--Autoradiography L.K. ula, D=3.05 + 22.56 \sqrt{t} . 1. Steel--Properties 3. Iron isotopes (Radioactive) -- Applications Card 2/2

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 41 (USSR) SOV/137-58-12-24207

AUTHORS Shved, F. N. Rabinovich, Kh. L.

TITLE Oxygen Applications in Steel Melting at the Myshem Plant for Reinforcing Steel (O primenenii kisloroda pri vyplavke stali na Myshegskom

PERIODICAL Byul. tekhn.-ekon. inform. Sov. nar. kh-va Tul'sk. ekon. adm. r-na, 1958, Nr 1-2, pp 45-46

ABSTRACT Oz blow of Statthe Myshega Plant was adopted in 1952 and is now employed in the molting of acid-resistant steel (St) from scrap. The charge consists of 80-90% scrap. O2 is employed during the meltdown and oxidizing periods in the meiting of carbon St. To protect the metal against excessive oxidation, the percentage of conversion pig from in the mix is increased to 25%. Oz consumption during the melting period is 12-15 m³/t St. The electric energy saving is 150-180 kwh/t, the melting time is diminished by 15%. The O2 is introduced into the furnace by Fe lances. The tubes are coated with a bulk mixture of fireclay powder and water glass.

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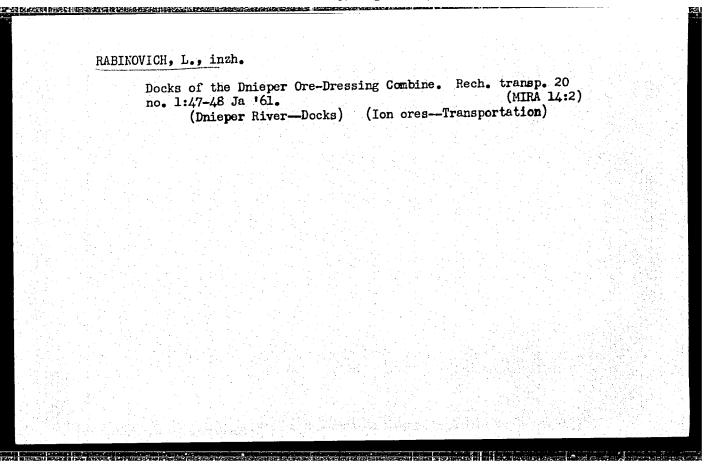
RABINOVICH, L.

Elektroavtomatika aviatsionnykh elektromekhanicheskikh ustanovok CAutomatic electric equipment in aviation electromechanical uniis) Moskva, Oborongiz, 1957.

421 p. diagra., graphs.

At head of title: Russia. Ministerstvo Vysshego Obrazovaniya, and Moscow. Aviatsionnyy Institut.

"Literatura": p. 418



| Season of transport 40 no.5:16-17 My 16 | ing the grain is approaching. 2. (GrainTransportation) | Avt.transp. (HIPA 15:5) | |
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RABINOVICH, L.A., dotsent

Case of necrosis of the extremities following carbon monoxide poisoning. Ortop.travm. i protez. no.3:68-69 My-Je '55 (MLRA 8:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (sav.prof. I.S.Bakkal) Kazakhekogo meditsinskogo instituta im. V.M. Molotova. (CARBON MONOXIDE, poisoning, causing leg gangrene)

(POISONING, earbon monoxide, causing leg gangrene)

(ING, magrene, caused by carbon monoxide pois.)

(GANGRENE, leg. caused by carbon monoxide pois.)

RABINOVICH, L. A., CAND TECH SCI, "INVESTIGATION OF DEFORMATIONS AND STRESSES IN FORMING HOLLOW FORGINGS OF COMPLEX SHAPES ON HORIZONTAL FORGING MACHINES." MOSCOW, 1960. (MIN OF HIGHER AND SEC SPEC ED RSFSR, MOSCOW BENCH INSTRUMENT INST IN I. V. STALIN). (KL, 3-61, 219).

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S/182/60/000/011/006/016 A161/A029

AUTHOR

Rabinovich, L.A.

TITLE

Investigation Into Metal Flow in Stamping of Complex Shape

Hollow Forgings in Horizontal Presses

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No.11, pp.21-25

chnaya machina) make possible the forging of hollow work with nearly accurate shape of ready parts. The article contains information on experiments with several types of complex hollow forgings: with a protrusion on the front end; with two protrusions in sequence on the outside; with two flanges, and with a flat eye on the bottom portion. The flow of metal was studied on composite blanks (a screw with tightly fitted cylindrical nuts screwed on). The first three of the listed types were forged with four passes after single heating. The displacement of metal was watched by the coordinates of marked points in cross sections (Fig. 1). After failures with the second type (two protrusions, incomplete filling of the die, Fig. 4), the following operations sequence proved to be correct: forming the Card 1/8

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S/182/60/000/011/006/016 A161/A029

Investigation Into Metal Flow in Stamping of Complex Shape Hollow Forgings in Horizontal Presses

collar and first protrusion in the first pass; preliminary piercing (for a depth ensuring a collar length equal to 0.8 D) with simultaneous final formation of the first protrusion in the second pass; piercing to final depth with simultaneous final formation of the second protrusion in the third pass; in the fourth pass the forging was separated from the rod. The second-type forging is shown in Fig. 5. No upsetting and no flow of metal toward the piercer was observed in this procedure. Deformation in the sequence shown in the photos (Fig. 6 and 7) proved right for the third type of forgings with two flanges, from steel, commercially pure titanium, and for AB (AV) aluminum alloy. The last type with end eye (Fig. 8) from BIS (VT5) titanium alloy was forged in two dies with reheat. The eye was formed in the first die with three impressions and the cylindrical part in the second die. During the forging in the second die the blank was held in place with special tongs by the ready eye portion. In the first impression of this die the metal was collected in the piercer with a conical hollow; the collar was formed in the second impression (to prevent up-Card 2/8

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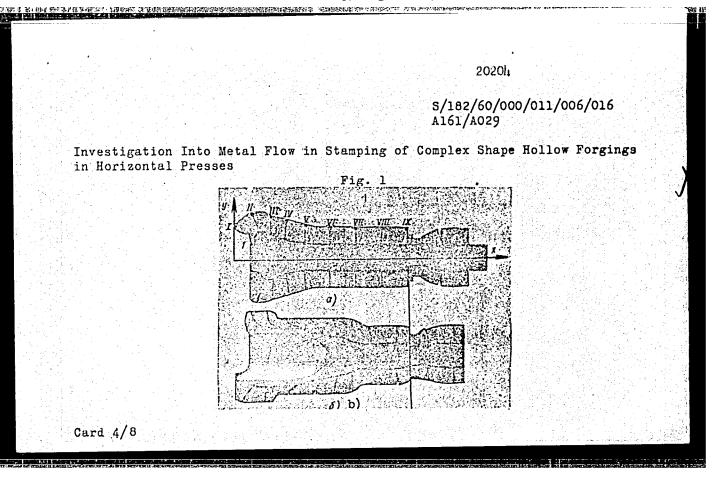
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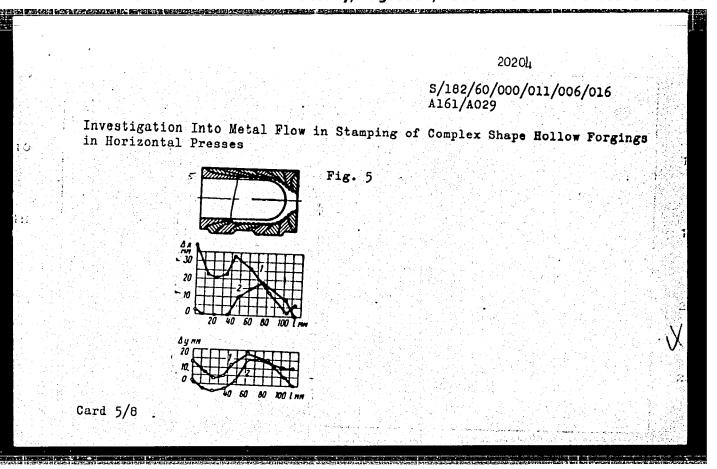
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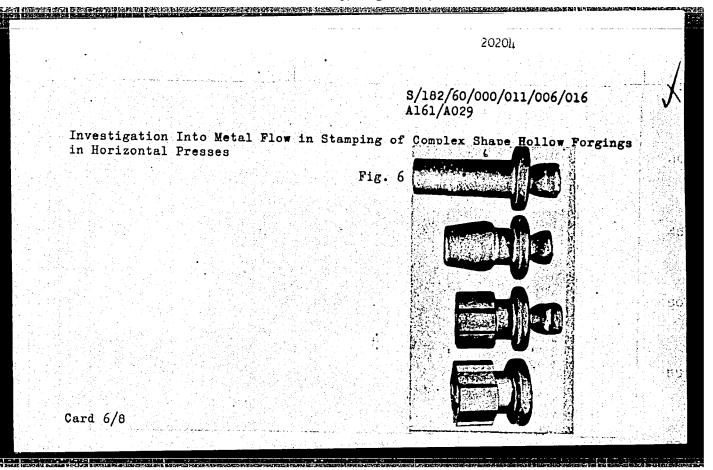
Investigation Into Metal Flow in Stamping of Complex Shape Hollow Forgings in Horizontal Presses

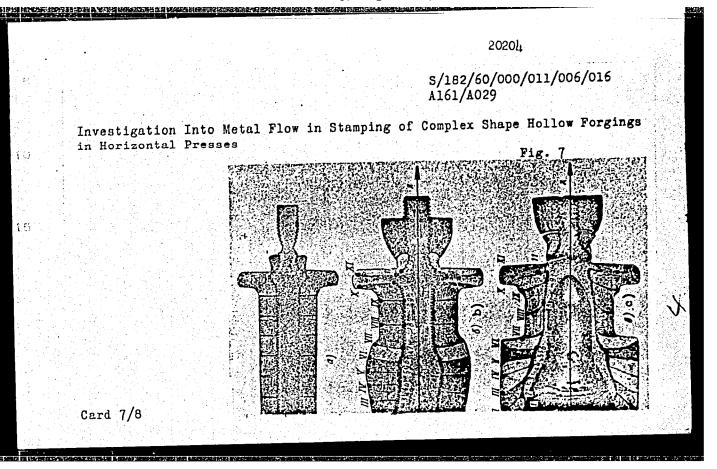
setting during piercing); piercing was done in the third and fourth pass with constant blank length and metal flow mainly in radial direction. The following conclusions are drawn: 1) the investigation method with composite blanks permits observations of metal flow to be made in the real production process; 2) the nomenclature of forgings produced in horizontal presses can be extended after determination of the nature and magnitude of metal displacement in typical forging patterns; 3) the shaping of hollow complex forgings requires preliminary redistribution of metal on the blank in order to obtain the hollow with minimum axial flow of the metal; 4) the horizontal presses are suitable for complex hollow forgings from steel, titanium alloys (VT1 and VT5) and the aluminum alloys AB (AV) and AKS (AK6). There are 8 figures.

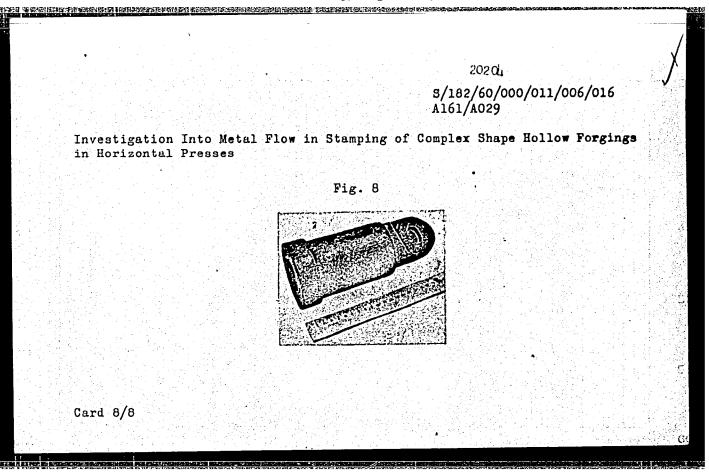
Card 3/8











S/122/60/000/010/009/015 A161/A030

AUTHOR:

Rabinovich, L.A., Engineer

TITLE:

Study of Piercing Process in Horizontal Forging Machines

PERIODICAL:

Vestnik mashinostroyeniya, 1960, No. 10, pp. 47-52

TEXT: The existing manuals for forging on the TKM(GKM) machines concern mainly solid forgings, and for hollow forgings the technique has to be calculated using one's own experience, the results not always being good. This article gives the results of an investigation of the formation of hollow forgings and the effect of the piercing tool shape. Cylindrical billets (rectangular are considered impractical) with a screw and tightly set round nuts were pierced in a "GKM-4" machine. Deformations were measured with a carbon dynamometer placed in the piercer holder. The effect of a "collar" on the billet end was studied on two "collar" types. The first version ensured at certain billet parameters the formation of a hollow with minimum metal flow and no change of the billet length. The observations are discussed in detail. Diagrams were plotted showing the variations of effort with

Card 1/2

S/122/60/000/010/009/015 A161/A030

Study of Piercing Process in Horizontal Forging Machines

a different shape of piercing tool end. The billet with "a" collar required 15% less deformation work than that with "b" collar. A conical piercer tip with 90-110° taper proved most effective. The following is recommended: to employ deep-piercing on billets with a cross section area equal to the cross section area of the forging; to use a "collar" on the front end of the billet, of D > 1.1D_M diameter and 1 > 0.3D_M length (where D_M is the outer diameter of the forging); to prevent longitudinal bending of the billet and increase the piercing depth up to four diameters of the initial billet in a single stroke of the machine slider by changing the initial billet cross section shape to a rhomb (from initial circular), which is possible in dies with simultaneous formation of the "collar". There are 6 figures and 4 Soviet references.

Card 2/2

\$/182/61/000/008/003/005 D038/D113

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Rabinovich, L.A.

AUTHOR:

The preparation of forgings by pressing on horizontal forging

TITLE:

machines

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 3no. 8, 1961, 8-13

TEXT: The article deals with an experiment where forgings are manufactured in a die consisting of two-perpendicularly placed sections. It is stated that since the forgings can be removed from the dies by tongs after pressing, the production of the dies should be less labor consuming. The AK6 ing, the production of the dies should be less labor consuming. The AK6 (AK6) and AB (AV) aluminum alloys were used for the production of brackets, smooth and embossed surface shells and valves. The dies were heated to 150-200° C prior to pressing, and animal fat was used as a lubricant. The work inserts for pressing were made from 3×2B8 (3Kh2V8) steel which was heat treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 341-treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 341-treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 341-treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 341-treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 341-treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 341-treated to HB 444-514, the guides were made from 40X (40Kh) steel (HB 415-477).

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S/182/61/000/008/003/005 D038/D113

The preparation of forgings

the working part of the punch must allow a t gap = 0.2 : 0.3 mm between the punch and the container. A speed and capacity range for deformation, and an example of a method of pressing a bracket are included. It is stated that brackets can be pressed at a 1250-ton press capacity at approximately 180 cm/sec. The produced forgings hardly required any finishing operations, and only 6-8% of the metal was wasted. The range of forgings could be considerably expanded by using aluminum and steel alloys. Horizontal press forging machines could be widely adopted for the production of forgings if maximum permissible speeds of pressing were adopted in the new process. The following took part in the work: Ye.I. Sokolov, V.M. Sapozhnikov and M.A. Khlyntsev. There are 6 figures, 1 table and 5 Soviet references.

Card 2/2

| AUTHOR: Rabinovich, L. A. TITIE: Determining the thermal and sechanical conditions of plastic deformation and of the formability of a metal SOURCE: Kunnechno-shtampovochnoye proisvodstvo, no. 5, 1963, 1-5 TOPIC TAGS: forging, stamping, deformation, work, pressure, mechanical properties, plasticity, temperature ABSTRACT: The author criticises the practice of supplying new alloys to forging and stamping establishments with no data or only insufficient data for forming these alloys. He suggests that such information should contain instructions pertaining to: 1) the allowable amount of deformation; 2) work and pressure required; 3) mechanical properties of the product; 4) metal plasticity; and 5) temperature range for metal forming. The allowable amount of deformation should be calculated from the formula: Delta h = \((H - H \text{ sub 1})/H/100, where H is the original height of a sample, H \text{ sub 1 is the height of a sample after deformation. For a cylindrical sample the formula is Delta h \text{ sup 1 = \((D - B/D/100, \text{ where D is the original diameter and B is the height after deformation. Tests should be made at different | L 13401-63 ACCESSION NR: | EWP(q)/BDS/EWT(m) AP3000079 | AFFTC/ASD 8/0182/ | JD \$3/000/005/0001 | /0005 | |
|---|-----------------------------|--------------------------------|----------------------|------------------------|------------------|--|
| SOURCE: Kusnechno-shtampovochnoye proisvodstvo, no. 5, 1963, 1-5 TOPIC TAGS: forging, stamping, deformation, work, pressure, mechanical properties, plasticity, temperature ABSTRACT: The author criticises the practice of supplying new alloys to forging and stamping establishments with no data or only insufficient data for forming these alloys. He suggests that such information should contain instructions pertaining to: 1) the allowable amount of deformation; 2) work and pressure required; 3) mechanical properties of the product; 4) metal plasticity; and 5) temperature range for metal forming. The allowable amount of deformation should be calculated from the formula: Delta h = \(\frac{1}{2} \) H - H sub 1)/H/100, where H is the original height of a sample, H sub 1 is the height of a sample after deformation. For a cylindrical sample the formula is Delta h sup 1 = \(\frac{1}{2} \) D - B/D/100, where D is the original diameter and B is the height after deformation. Tests should be made at different | AUTHOR: Rabin | ovich, L. A. | | | 520 A | |
| TOPIC TAGS: forging, stamping, deformation, work, pressure, mechanical properties, plasticity, temperature ABSTRACT: The author criticises the practice of supplying new alloys to forging and stamping establishments with no data or only insufficient data for forming these alloys. He suggests that such information should contain instructions pertaining to: 1) the allowable amount of deformation; 2) work and pressure required; 3) mechanical properties of the product; 4) metal plasticity; and 5) temperature range for metal forming. The allowable amount of deformation should be calculated from the formula: Delta $h = \sum (H - H \text{ sub } 1)/H \sum 0$, where H is the original height of a sample, H sub 1 is the height of a sample after deformation. For a cylindrical sample the formula is Delta h sup $1 = \sum (D - B/D \sum 0$, where D is the original diameter and B is the height after deformation. Tests should be made at different | | | chanical cond | itions of plast | ic deformation | |
| ABSTRACT: The author criticises the practice of supplying new alloys to forging and stamping establishments with no data or only insufficient data for forming these alloys. He suggests that such information should contain instructions pertaining to: 1) the allowable amount of deformation; 2) work and pressure required; 3) mechanical properties of the product; 4) metal plasticity; and 5) temperature range for metal forming. The allowable amount of deformation should be calculated from the formula: Delta $h = \sum (H - H \text{ sub } 1)/H / 100$, where H is the original height of a sample, H sub 1 is the height of a sample after deformation. For a cylindrical sample the formula is Delta h sup $1 = \sum (D - B/D / 100)$, where D is the original diameter and B is the height after deformation. Tests should be made at different | SOURCE: Kusne | chno-shtempovochnoye pr | olsvodstvo, 'no | . 5, 1963, 1-5 | | |
| and stamping establishments with no data or only insufficient data for forming these alloys. He suggests that such information should contain instructions pertaining to: 1) the allowable amount of deformation; 2) work and pressure required; 3) mechanical properties of the product; 4) metal plasticity; and 5) temperature range for metal forming. The allowable amount of deformation should be calculated from the formula: Delta $h = \sum (H - H \text{ sub } 1)/H \sum 100$, where H is the original height of a sample, H sub 1 is the height of a sample after deformation. For a cylindrical sample the formula is Delta h sup $1 = \sum (D - B/D \sum 100)$, where D is the original diameter and B is the height after deformation. Tests should be made at different | TOPIC TAGS: 1 | orging, stauning, defor | mation, work. | ressure, mecha | nical properties | |
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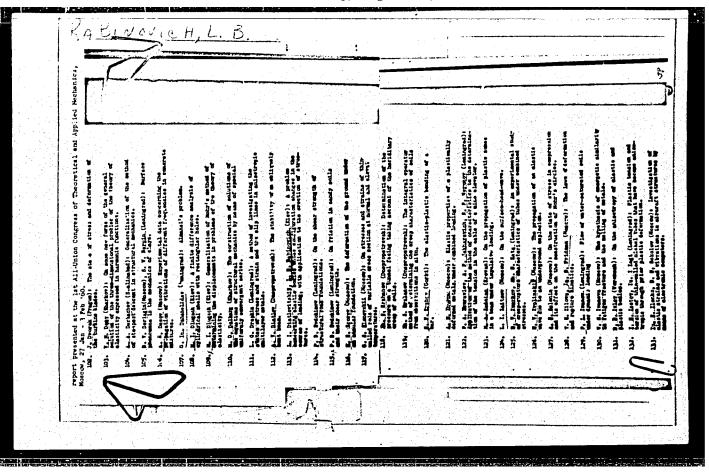
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temperatures and should be continued until the first crack appears. The equipment should consist of a 100-kg drop harmer, a 200-ton press, and 1300C furnace. The tested samples should be 20 mm in diameter and 30 mm high. The tests should be started at 500 above the temperature of recrystallisation for a given metal and should be continued up to temperatures of 100-1500 below the melting point. Average work and pressure may be determined from the results of the preceding experiments by dividing total work or pressure causing deformation by the contact area. Data on mechanical properties of the products should give their strength, relative elongation, relative area diminution, and resistance to impact. Plasticity of metal should be determined by placing a sample in a block with a depression into which a die with a conical recess may be forced. The amount of plasticity is then determined by the height to which the tested metal enters the conical recess. The plasticity is designated by the letter PHI with two indexes. The upper index indicates the temperature at which the deformation occurred, the lower indicates the amount of work expended in producing this deformation. The temperature range for forging and stamping a given alloy is determined in the course of the preceding experiments. Orig. art. has: 4 graphs, 4 equations, 3 tables, and 2 figures.

ASSOCIATION: none SUBMITTED: CO SUB CODE: CO Cord 2/2

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DYATLOVITSKIY, L.I. (Kiyev); RABINOVICH, L.B. (Kiyev)

Elasticity problem for bodies with configuration changing under loading. Inzh.zhur. 2 no.2:287-297 '62. (MIRA 15:6) (Elastic solids)

MARUSEVA, A.M.; RABINOVICH, L.G. [deceased]

Effect of certain chemicals on electric manifestations of the activity of the cochlea and the acoustic nerve. Probl.fiziol. akust. 2:72-81 '50 (MIRA 10:11)

1. Laboratoriya fiziologii organov chuvstv Fiziologicheskogo instituta im. akd. I.P.Fevlova AM SSSR.

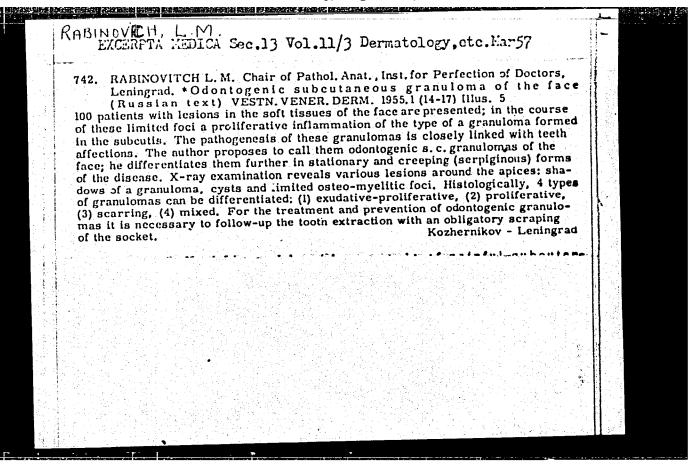
(RIECTROPHYSIOLOGY) (PHARMACOLOGY) (ACOUSTIC MERVE)

(LABYRIETH (RAR))

| l. Kuybyshevskiy institut epidemiologii, mikrobiologii i gigiyeny. | Fisher, | Dry lactic nutritional media. Lab. delo no.3:183-184 '65. (MIRA 18:3) |
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On so-called migrating granuloma of the face. Stomatologiia, Moskva no.3:33-37 1951. (CIML 21:1)

1. Candidate Medical Sciences. 2. Of the Department of Surgical Stomatology (Head -- Prof. A. A. Limberg, Corresponding Member of the Academy of Medical Sciences USSR), Leningrad Medical Stomatological Institute.



RABINOVICH, L.M., kand.med.nauk

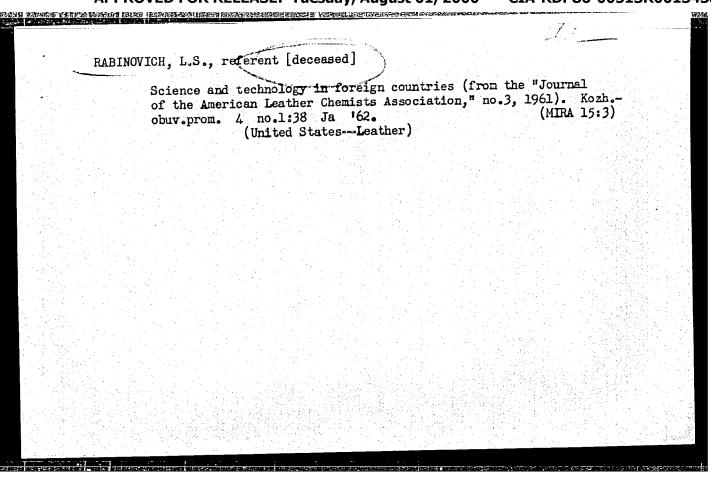
Case of heteroplastic bone formation in the region of the mucous membrane of the upper lip. Stomatologiia 40 no.1:96-97 Ja-F '61. (MIRA 14:5)

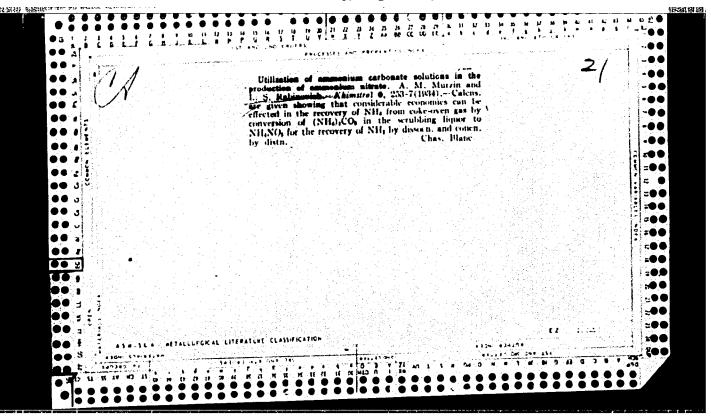
1. Iz Vsileostrovskoy rayonnoy stomatologicheskoy polikliniki Leningrada (glavnyy vrach P.P.Lazareva). (LIPS—TUMORS)

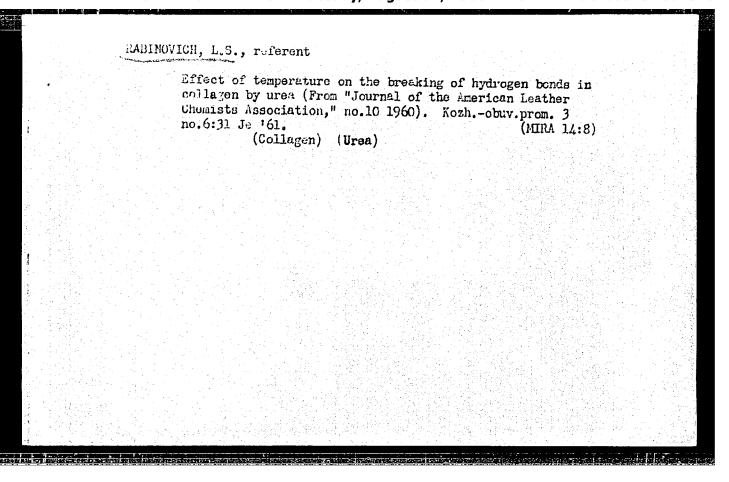
RABBIOVICH, L.M., kand. med. nank

Clinical aspects, pathological anatomy and treatment of retention cysts of small salivary glands. Stomatologia 42 no.4: 45-46 J1-Ag 163 (MIRA 17:4)

1. Iz rayonnoy stomatologicheskoy polikliniki No.2 (glavnyy vrach P.P. Lazareva) Vasileostrovskogo rayona Leningrada.







| INVENTOR: I. D.; K1 | <u>Rabin</u> imenko, | v. N.; Kon | .; Sharapo chakovskay | v, A. M.; Ron, L. D.; Si | ibashkin, L. epanenko, (| I.; Radomy | sel'skiy, alov, V. M. | - |
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| steel powers service 1: | der, suc | tators and | disks of 1 | rotary doubl | e-action pu | | | |

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RAPINOVICH, Lo.

USSR/General Section - Problems of Teaching.

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RABINIAVICH, L. V.

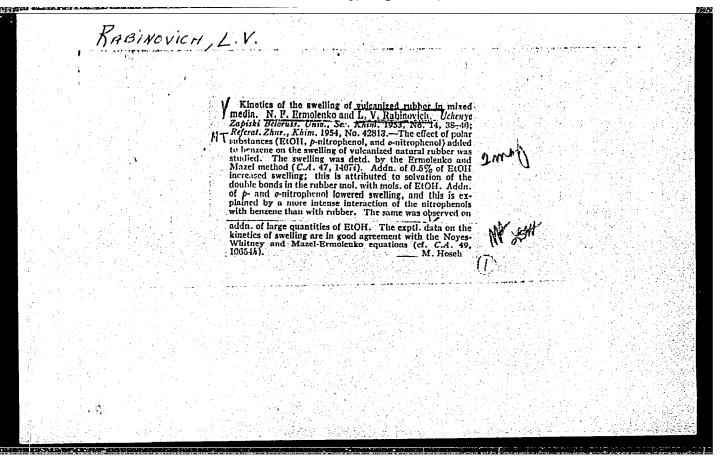
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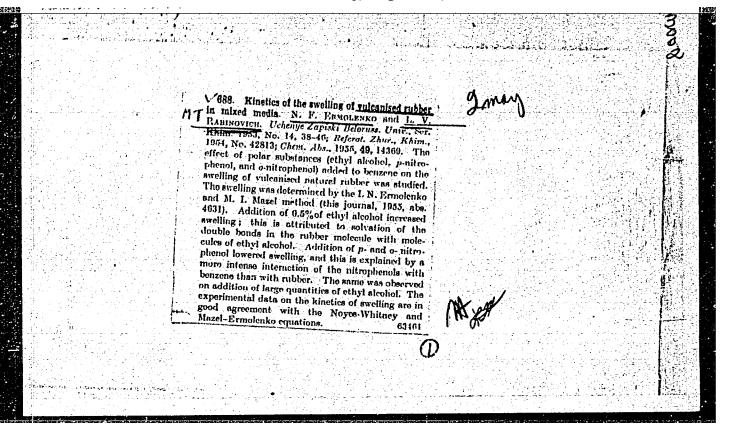
Yermolenko, N. F., Rabinovich, L. V., and Lemets, N. L. - "The thermal dependence of the surface activity of solutions of surface-active materials and their mixtures", (Report), Soobshch. o nauch. rabotakh chlenov Vsesoyuz. khim. o-va im. Mendeleyeva, 1949, Issue 1, p. 14-15.

So: U-h630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

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EpaiNoview, L.V

23

PHASE I BOOK EXPLOITATION

Rabinovich, L. V.

Elektroavtomatika aviatsionnykh elektromekhanicheskikh ustanovok (Electric Automation of Aircraft Electromechanical Installations) Moscow, Oborongiz, 1957. 421 p. 8,300 copies printed.

Sponsoring Agency; Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze

Ed.: Grigorash, K.I.; Managing Ed.: Latynin, Ye. V.; Ed. of Publishing House: Suvorova, I.A.; Tech. Ed.: Rozhin, V.P.

PURPOSE: This monograph is addressed to students enrolled in courses in automation of electromechanical installations on aircraft. According to the author, it represents the first attempt to write a textbook on electric automation. Engineers and technical workers in the field may also find it useful.

COVERAGE: This monograph explains the design and construction principles of components and systems used in the automatic control of electromechanical installations on aircraft. It consists of three main sections: 1) elements of electric

Card 1/11

Electric Automation of Aircraft Electromechanical (Cont.)

automation, 2) electric automation of a controlled speed drive,
and 3) electric automation of remote control systems. Some
and 3) electric automation of remote control systems. Some
Soviet-produced equipment is discussed. Petrov, B.I., Docent,
and Terskov, V.G., assisted in preparing the book for the press.
The following Soviet personalities are cited and their contributions in the field discussed: Buylov, A. Ya.; Kovalenko, V.I.,
and Sotskov, B.S. (p. 23 and p. 76); Tsykin, G.S. (p. 241);
and Sotskov, B.S. (p. 346); Mar'yanovskiy (p. 346); SolodovMikhaylov, A.V. (p. 346); Mar'yanovskiy (p. 346); Solodovnikov, V.V. (p. 402, 403, etc); and Voronov, A. A. (p. 412).
There are nine bibliographic entries, 7 of which are Soviet, (2
translations) plus references to various Soviet sources which
appear in the text and as footnotes on pp. 150, 170, 295 and
395.

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AUTHOR:

Rabinovich, L.V.

6-58-4-4/18

TITLE:

On the Application of Highly-Solid Aluminum Alloys 7 95 for the Construction of Geodetical Apparatus (O primenenii vysokoprochnogo alyuminiyevogo splava V 95 v geodezicheskom priborostroyenii)

PERIODICAL:

Geodeziya i Kartografiya, 1958, Nr 4, pp. 22-29 (USSR)

ABSTRACT:

In the laboratory of a plant, the alloy V-95 was investigated with respect to the possibility of replacing brass $\overline{L}S$ 59-1 by V 95 in newly projected apparatus. Metallographical investigations such as concerning the technological properties in consideration of the demands made, as well as of corrosion resistance and resistance against downward pressure were carried out. In the case of the new theodolite type TT-5 V 95 is used, so that in the case of TT-50 weight was reduced from 5.2 kg to 3.1 kg. The chemical composition of V 95 according to GOST 4784-49 is: 5-7% zinc, 1,8-2,8% manganess, 1,4-2% copper, 0.2-0.6% magnesium, 0.1-0.25% chromium, not more than 0.5% iron and 0.5% silicon, and the rest is aluminum. When hardened and artificially aged, V 95 has a tensile strength of 52-60 kg/mm², an elongation of 8-12%, and a hardness of 80-90 R_B. Specific weight: 2.8 g/cm², thermal expansion factor 23.7x10⁻⁶

Card 1/2

On the Application of Highly-Solid Aluminum Alleys V 95 for the Construction of Geodetical Apparatus

6-58-4-4/18

thermal conductivity factor 0.28 cal/cm sec0. The alloy is not magnetic and is subjected to thermal treatment. The application of V 95 requires careful treatment of molds, which must be selected with a minimum of concentrated stress. On the strength of these investigations it may be said that: 1.) V 95 can be widely used instead of brass or low-carbon steels. 2.) V 95 is more suited than brass IS 59-1 for the production of parts subjected to frietion with low specific stress. 3.) In the case of constant lubrication V 95 can be used without special coatings, but for parts subjected to friction an anode oxidation (strength of anode layer not below 180 Hw) is to be recommended. 4.) V 95 can also be used for the production of metal parts of optical apparatus. 5.) The oxidized alloy V 95 can be used for the production of the outer parts of apparatus used in zones of moderate climate. In damp and tropical climates the oxide layer must be provided with a coating of protective varnish. There are 2 figures, and 4 tables.

AVAILABLE:

Library of Congress

Card 2/2

1. Geodetics-Instrumentation 2. Aluminum alloys-Applications

SOV/154-59-2-1/22 3(4), 18(4) Rabinovich, L. V., Engineer AUTHOR: The Use of Light Alloys in the Manufacture of Geodetic In-TITLE: struments (Primeneniye legkikh splavov pri izgotovlenii geodezicheskikh instrumentov) Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"-PERIODICAL: yemka, 1959, Nr 2, pp 3 - 5 (USSR) The industry of the USSR produces a great number of light ABSTRACT: metal alloys: aluminum alloys with a specific weight of 2.7 g/cm3 and magnesium alloys with a specific weight of 1.8 g/cm³. Also titanium alloys, having a specific weight of 4.5 g/cm³, have been produced in recent years. Oxide layers having a thickness from a few po up to 100 are formed by way of an electrical surface treatment of the aluminum alloys. All aluminum alloys are nonmagnetic, their technological properties are satisfactory and in addition, they are cheap. The following aluminum alloys are of importance for the construction of geodetic instruments: duralumin of the D-1 and D-16 type for simple parts which are not subject to wear. Avial of the AV type for the same parts which, however, are Card 1/3

The Use of Light Alloys in the Manufacture of Geodetic SOV/154-59-2-1/22 Instruments

produced by drop forging. Aluminum-magnesium alloys AMG, AMG 5, ANG 5, AMG 5V, AMG 6, AMG 6T for parts requiring high corrosion resistance (scales, limbs); aluminum alloys for parts drawn by cold-sw_ging. The most interesting is the new high strength aluminum alloy V 95. It serves for the production of parts subject to wear (axes), is not inferior to bronze as regards hardness nor to the unhardened steels, and it exceeds brass in this respect. The tensile strength of V 95 amounts to 50-60 kg/mm². Furthermore, aluminum-silicon alloys AL-2, AL-9 and aluminum-magnesium alloys AL-8, AL-13 are to be employed for the construction of geodetic instruments. 2 In the case of AL-8 the tensile strength amounts to 28 kg/mm2, stretching to %. AL-8 is highly corrosion proof, is easy to cut and polish. All the alloys mentioned here have so far been employed very little both in the USSR and abroad; this is why instruments are usually heavy and do not meet operational requirements. The alloys in question are recommended here on the strength of factory tests made in the years 1956-1957. At present, most of them are already employed in the mass production. Limbs are also being produced with light metal

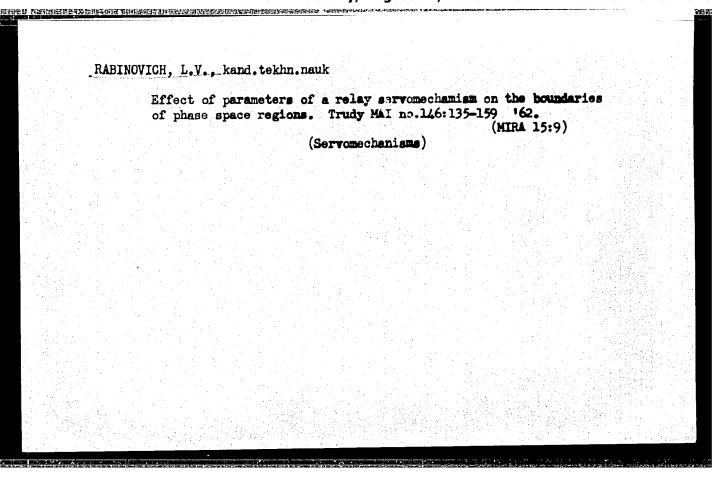
Card 2/3

The Use of Light Alloys in the Manufacture of Geodetic SCV/154-59-2-1/22 Instruments

alloys. Among the titanium alloys some have already a tensile strength of up to 120 kg/mm² with a notch impact strength of 3-6 kgm/cm² and a hardness according to Brinell of up to 350 kg/mm². These high mechanical properties of the alloys are preserved at temperatures of up to 500°C: they are, however, suitable also in the case of operations at low temperatures. Titanium can be welded, it is not only corrosion proof in the atmosphere but also in sea water and a number of chemical reagents; it is nonmagnetic; it exhibits a low linear expansion coefficient which almost equals that of optical glass. The use of titanium housings for the reinforcement of glass limbs in theodolites excludes a change of eccentricity in optical theodolites when temperature oscillations occur during operation.

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ACCESSION NR: AT5020440

UR/0000/65/000/000/0164/0167

AUTHOR: Rabinovich, L. V.

TITLE: Use of aluminum alloys in friction junctions of devices

SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya smazochnogo deystviya i novyye materialy (Theory of lubricating action and new materials). Moscow, Izd-vo Nauka, 1965, 164-167

TOPIC TAGS: bearing material, bearing property lubrication, aluminum alloy/ V95 aluminum alloy, AL8U aluminum alloy, MI friction machine

ABSTRACT: The use of aluminum alloys to replace copper bearings in applications requiring extremely small clearances (1.5 micron) and operating under small-to-moderate loads for long periods of time in a range of temperatures of -50 to 500 was investigated (for example, in theodolites, levels, etc). After eliminating a number of alloys, alloys V95 and AL8U were investigated on an MI friction machine at 7 and 21 kg/cm², 0.37 m/sec, 2000 rpm (OKB 122-5 and IK-20 labricants) and compared with some commercial copper alloys (BrOF 6.5-0.15, IS59-1). It was found that dry operation of V95 and ALSU friction junctions gave smaller

Card 1/2

L 1548-66 ACCESSION NR: AT5020440 coefficients of friction and wear than the copper alloys, that a thin (3-7 micron) oxide film obtained by anodic oxidation improves antifriction and wear properties, that lubrication further improves performance, and that mixed V95-ALSU friction junctions provide best performance (no quantitative results are presented). An extensive program of applied testing of the alloys in actual instruments (at +50 and -40C, under 12-15 mm amplitude, 120 cps vibration, and in 96% humid environment) showed that in all cases the aluminum alloys gave comparable or improved performance over the copper alloys for 10- and 20-year simulated service. (Again no quantitative results are given.) These alloys are recommended to replace copper based bearings. markers AT 316 L ASSOCIATION: SUB CODE: ENGL: SUBMITTED: 22May65 OTHER! COO NO REF SOV: 000 **Card** 2/2

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Rabinovich, Lev Vladimirovich

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Phase plane methods in the theory and practice of relay servomechanisms (Metody fazovoy ploskosti v teorii i praktike releynykh sledyashchikh sistem) Moscow, Izd-vo "Energiya", 65. 0150 p. illus., biblio. 9,000 copies printed.

TOPIC TAGS: servomechanism, nonlinear automatic control system, automatic control theory

PURPOSE AND COVERACE: The theoretical bases of engineering methods for the study of relay servomechanisms with nonlinear servo drivers are presented. The method of constructing phase trajectories using templates is described, allowing the rapid determination of the motion with arbitrary mechanical characteristics. The effect of relay unit lag with actuation and release, as well as the effect of aneroid elements before and following the relay, on the dynamic properties of the system is considered. The boundaries in the space of parameters which separate the various types of motion are determined. From the information presented the properties of a specific class of relay servomechanisms can be analyzed and the connection of these properties with the parameters can be established, i.e., certain synthesis problems can be solved. The book is intended for scientific workers, engineers, and

Card 1/2

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DUDERKOV, S.; LIVSHITS, A.; PASHOVKIN A.; YEVSEYEVA, A.: BARLAUKHOV, M.; VARTANYANTS, S.; RABINOVICH, M.

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Results of the industrial tests of the OPSB frother at the Kadzharan ore-dressing plant. Prom.Arm. 5 no.9:41-45 S *62. (MIRA 15:9)

1. Gosudarstvennyy nauchno-issledovatel skiy institut tsvetnykh metallov (for Dudenkov, Livshits). 2. Nauchno-issledovatel skiy gornometallurgicheskiy institut Soveta narodnogo khozyaystva Armyanskoy SSR (for Pashovkin). 3. Kadzharanskiv kombinat Soveta narodnogo khozyaystva Armyanskoy SSR (for Pashovkin). Vartanyants, Rabinovich).

(Kadzharan-Ore dressing-Equipment and supplies)

KONAKOVSKIY, Alekaand Berlsevich, zharmalis ; RABINOVICH, M., red.

[A month in the director's chair; a business diary] Mesiats v direktorskom kresle; delevoi dnevnik. Moskva, Politizdat, 1965. 86 p. (MIRA 19:1)

1. Korrespondent "Ekonomicheskoy gezety" (for Komarovskiy).

RAFIECVICH, M. A.

Rabinovich, M. S. and Konovalova, P. A., On alkaloids from Dipascus Azureus Schrenk. p. 1510.

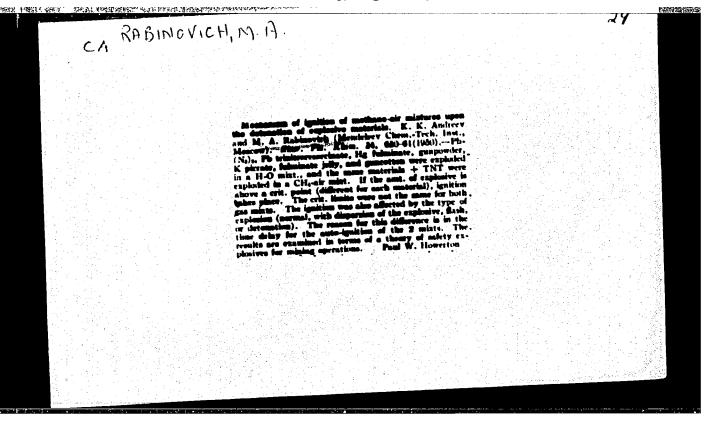
From dipsacus azureus is evolved a crystalline alkaloid of composition $C_{10}H_{0}O_{2}N$ of a non-saturated character containing a lactonic grouping. Dehydroderivative $C_{10}H_{11}O_{2}N$ is obtained and during oxydation $C_{9}H_{7}O_{4}N$ acid is evolved.

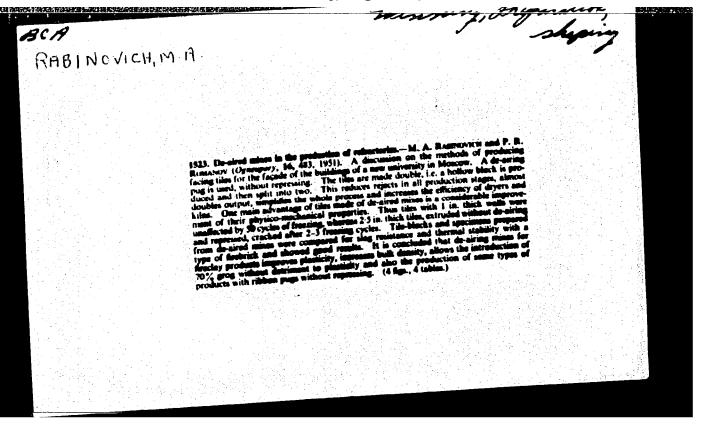
The Orzhonikidze All Union Sci. Res. Chemico-Pharmaceutical Inst. Lab. of Chemistry of Alkaloids, Foscow. April 12, 1947

SO: Journal of General Chemistry (USSR) 18, (80) No. 8 (1948)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

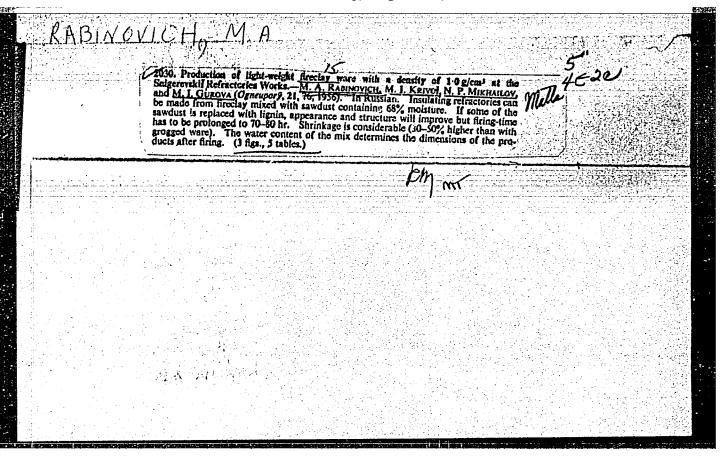
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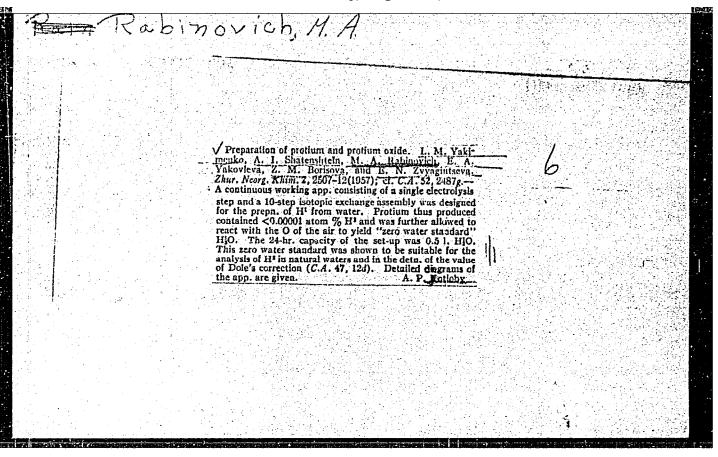




RABINOVICH, M.A.; BLANK, M.S.; MIKHAYLOV, N.P.

Transferring ring kilns from operating on solid fuel to producer gas. Ogneupory 18 no.10:495-443 '53. (MIRA 11:10) (Kilns) (Fuel)





RABINOVICH MA.

AUTHOR:

Kamenichnyy, M. S.

131-58-6-11/14

TITLE:

News in Brief (Kratkiye soobshcheniya). Production of Ultralight Refractory Products (Proizvodstvo ul tralegkovesnykh ogneuporov)

PERIODICAL 8

Ogneupory, :958, Vol. 23, Nr 6, pp. 284-285 (USSR)

ABSTRACT:

In March 1958 a meeting took place at the Snigirevo Works for Refractory Products which had been called by the Department for Refractory Products of the Scientific—Technical Society for Metallurgy, and which was devoted to the problem of the mechanization of the production of ultralight refractory products. More than 60 persons took part in the meeting: representatives of the works for refractory materials, of the Leningrad Institute for Refractory Materials, as well as of other organizations. The following reports were heard:

1) Ye. A. Fedorova on the technology of the production of ultralight refractory products.

2) I. G. Ulifskiy on machines for molding and grinding light refractory materials.

Card 1/3

News in Brief.
Production of Ultralight Refractory Products

131 58 6 11/14

- P. S. Potemkin on the drying and burning of refractory light products.
- 4) M. A. Rabinovich on the experience in the production of refractory light materials at the Snigirso works.

The isolation properties of these products are 2 - 3 times better than those of the other light refractory products. Experiments at the Leningrad Institute for Refractory Products carried out with ultralight refractory products (weight by volume 0.3 - 0.4 g/cm²) showed that the heat losses decreased by 47 %, the heating period of the kiln by 26 %, and the output per hour increased per 19 %. The production of these products as well as of the usual foamy ones is based on the foaming of rater suspensions of clay and chamotte. The mass of the ultralight products contains 80 % of clay and 20 % of chamotte, whereas the mass of the usual light products contains 10 % of clay and 90 % of chamotte. The drying of the ultralight products requires a mild regime and lasts 5 - 6 days. The shrinkage exceeds 15 % which easily causes cracks.

Card 2/3

News in Brief.
Production of Ultralight Refractory Products

131.58 -6-11/'4

The burning of ultralight products takes place together with other products in annular kilns. The meeting decided upon recommendations for the mechanization of the molding process and the perfection of drying and burning. A further development of this production was recommended.

- 1. Refractory materials--Production 2. Industrial plants--Automation
- 3. Machines--Performance

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Card 3/3

SHUFTLEIN, A.A.; IVANEV, V.A.; FABINCVIC., M.A.; KLIVOT, F.I.

Calcination of lightweight press-modded refractory products with waste abbitives. Ogneupory 25 no.12:540-545 160. (MIFA 14:1)

1. Vsesoyuznyy institut ogneuporov (for Shumilin, Ivanov). 2. Snigirevskiy ogneupornyy zavod (for Rahinovich, Krivoy).

(Firebrick)

ARTEMOV, Yu.M., kand. ekonom. nauk; GAL'PERIN, N.S., kand. ekon. nauk; GUBIN, B.V., kand. ekon. nauk; ZHUKOV, V.N., kand. ekon. nauk; OCHKOV, M.S. kand. ekon. nauk; OSKORDOV, V.P., starshiy ekonomist; BARNGOL'STS, S.B., dotsent, kand. ekon. nauk; SIBIRYAKCV, L.Ye.; IVANOV, N.N.; RABINOVICH, M.A., ekspert; LIPSITS, V.B., kand. ekon. nauk; VOLKOV, S.I., kand. ekon. nauk; KOROLEVA, Ye.P., aspirantka; RYUMIN, S.M., red.; SUBBOTINA, K., red.; TELEGINA, T., tekhn. red.

[Planning and calculating the cost of industrial production] Voprosy planirovaniia i kal'kulirovaniia sebestoimosti promyshlennoi produktsii. Moskva, Gosfinizdat, 1961. 183 p. (MIRA 14:8)

1. Moscow. Nauchno-issledovatel'skiy finansovyy institut. 2. Sotrudniki Nauchno-issledovatel'skogo finansovogo instituta (for Artemov, Gal'perin, Gubin, Zhukov, Ochkov. Oskordov). 3. Vsesoyuznyy zaochnyy finansovo-ekonom. institut (for Barngol'ts).4. Glavnyy bukhgalter Moskovskogo elektrozavoda (for Sibiryakov). 5. Starshiy konsul'tant Upravleniya bukhgalterskogo ucheta Ministerstva finansov SSSR (for Ivanov, Rabinovich). 6. Nachal'nik podotdela obshchikh ekonomicheskikh voprosov tsenoobrazovaniya Byuro tsen pri Gosplane SSSR (Lipsits). 7. Moskovskiy ekonomiko-statisticheskiy institut (for Koroleva)

(Costs, Industrial)

| ICH, M.A. Production of lightweight BL 0.5 with use of burning admixtures. Ogneupory 27 no.6:248-249-62. | g out MIRA 15:5) | |
|---|---------------------|--|
| l. Snigirevskiy zavod ogneuporov. (Refractory materials) | | |
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| RABINOVIC | H, M.A. | | |
| | Machine for cutting blanks a tubes. Ogneupory 27 no.8: | nd making furrows in 366-367 62. | recuperator (MIRA 15:9) |
| | 1. Snigirevskiy ogneupornyy | zavod. (Refractory material | s) |
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| l. Snigirevskiy zavod ogneuporov. | |
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| 。""我们,我们也没有一个,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是这个人,我们就是这样的。""我们,我们就是我们的,我们就会 | |
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| Increasing the strength of lightweight products. On no.9:392-393 '63. | gneupory 25 (MIRA 16:10) |
|---|-----------------------------|
| 1. Snigirevskiy zavod ogneuporov. | |
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