

S/119/62/000/002/004/010  
D201/D301

New designs of pneumatic ...

the controlled parameter exceeds or falls below a preset limit. The instrument can operate with any type of pick-ups in which the pneumatic output signal varies from 0.2 to 1 kg/cm<sup>2</sup>. The signaller operates on the principle of displacement compensation, the control point being set-up by differential levers. The output signal for pneumatic signal is the compressed air at 1.4 kg/cm<sup>2</sup>; for electric signal a voltage not exceeding 20-30V. Resistive load current 0.2 10A, inductive load current 0.2-5A. The absolute error and backlash not exceeding ±1%. 4) Pulse time relay type ПТЭ-5297 (IRV 5297) for transmitting a pneumatic signal at 1.4 kg/cm<sup>2</sup> pressure of a given duration at a given repetition frequency, may be used in sampled data control systems. 5) Storage relay type ПС-5223 (RL-5223) used as a storage element for input signal with the command signal applied in the form of a 1.4 kg/cm<sup>2</sup> pressure. 6) Pressure relay ПД-5271 (RD 5271) for converting an input air pressure into a standard air pressure. The sensitivity is better than 0.001 kg/cm<sup>2</sup> (0.1% of max. output pressure). Absolute error less than ±1% of the input air pressure range; additional error due to a change of ±10% of supply pressure not exceeding 0.2%. There are 6 figures.

Card 2/2

L 10107-63

EMP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AP3001951

S/0226/63/000/003/0018/0024

AUTHOR: Kudryavtsev, N. T.; Mikhaylov, N. I.; Novikov, A. A.

TITLE: Production of very fine copper powder

57  
56

SOURCE: Poroshkovaya metallurgiya, no. 3, 1963, 18-24

TOPIC TAGS: very fine copper powder, cupric sulfate reduction, reduction with titanous sulfate, batch-type process, continuous process, solution acidity, current density, lead anodes, titanic sulfate reduction

ABSTRACT: Very fine, pure copper powder with particles of spheroidal shape were produced by the reaction between titanous sulfate (Ti sub 2 (SO sub 4) sub 3) and cupric sulfate (CuSO sub 4) in an aqueous solution containing 200-250 g/dm sup 3 of sulfuric acid. With cupric sulfate added in excess of the stoichiometric amount, yields of 99.5--99.9% of the theoretical were obtained. Particle size varied depending on the concentration of titanous sulfate; at a concentration of about 1.0 g-equiv/dm sup 3, particles were 1- to 10-micron in diameter. At concentrations of less than 0.1 g-equiv/dm sup 3, particles were nearly colloidal

Card 1/12

L 10107-63

ACCESSION NR: AP3001951

and formed a stable suspension with water. The higher the acidity of the titanous sulfate solution, the purer the copper powder obtained; in a 6--10% solution 200--250 g/dm sup 3 of sulfuric acid produced the optimum acidity. Titanic sulfate produced by the reaction was reduced to titanous sulfate by electrolysis with direct current; the best results were obtained with a cathode current density of 1--3 amp/dm sup 2 and lead anodes. The reduction of cupric sulfate to copper powder and the reduction of titanous sulfate to titanous can be done in the same vessel by either a batch-type method -- dripping a saturated solution of cupric sulfate into a solution of titanous sulfate -- or a continuous method -- anodic dissolution of metallic copper in a solution of titanous sulfate. In both, the reduction of titanous sulfate on lead or copper cathodes occurs simultaneously with copper reduction of cupric sulfate. The batch-type method yields particularly high-purity powders. The advantages of the continuous method are that 1) copper waste products can be used as anodes, 2) there is no loss of titanium and copper salts, and 3) the process may be automated. Laboratory units for both processes have been built, and procedures for treating, drying, and controlling the quality of the powders produced are described. Orig. art. has: 1 table and 3 figures.

ASSOCIATION: Moskovskiy khimiko-tehnologicheskiy institut im. D. I. Mendeleeva  
(Moscow Institute of Chemical Technology)

Card 2/2

ACCESSION NR: AR4018306

S/0157/64/000/001/G033/G034

SOURCE: RZh. Metallurgiya, Abs. 1G236

AUTHOR: Kudryavtsev, N. T.; Mikhaylov, N. I.; Novikov, A. A.

TITLE: Preparation of highly dispersed powders of iron and copper

CITED SOURCE: Tr. Kuybyshchensk. aviats. in-t, vy\*p. 16, 1963, 5-9

TOPIC TAGS: iron powder, copper powder, electrolytic reduction cell

TRANSLATION: A description is given of laboratory methods of preparing pure, finely dispersed Fe and Cu powders. Fe is obtained in a conical glass electrolytic reduction cell with anodes of low-carbon steel strip and a cathode of Ni or Ti. The electrolyte consists of  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$  (55-75 g/l) and  $\text{K}_2\text{SO}_4$  with pH=3.0-3.5. Current density is 15-35 a/dm<sup>2</sup> and temperature is 18-22°. The Fe sponge formed at the cathode is loosened by the evolving H<sub>2</sub> and collects as a pulp in the bottom part of the cell. Acidity of the electrolyte is maintained by adding H<sub>2</sub>SO<sub>4</sub>. The recovered pulp is treated with 3-6% H<sub>2</sub>SO<sub>4</sub> containing 1 g/l of Na arsenite inhibitor to remove the hydroxide. The Fe powder is then washed with water and acetone, and dried in air at room temperature. The purity of Fe powder is 97%, and its specific surface,

Card 1/2

ACCESSION NR: AR4018306

30 m<sup>2</sup>/g. The Cu powder is obtained by the homogeneous reduction of CuSO<sub>4</sub> in acid medium by Ti sulfate in an electrolytic reduction cell containing a 5% solution of Ti<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> (200-250 g/l) acidified with H<sub>2</sub>SO<sub>4</sub>. The cell has Cu anodes, a soluble Cu cathode (source of Cu ions in solution), and an insoluble Pb cathode for regenerating Ti which is enclosed in a ceramic diaphragm with a 10% solution of H<sub>2</sub>SO<sub>4</sub>. The current density is 6 a/dm<sup>2</sup>. The Cu powder forming in the bulk of the electrolyte deposits on the bottom of the bath is filtered, washed with water and dried.

V. Reshpor

SUB CODE: KM

ENCL: 00

Card 2/2

OMEL'CHENKO, V.S., inzh.; NOVIKOV, A.A., inzh.

Reducing the consumption of arc furnace electrodes. (MIFA 18:12)  
Lit. proizv. no.11:10-12 N '65.

L 2972-66 EWA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) SCTB/LJP(c) WG  
ACCESSION NR: AP5021726 UR/0386/65/002/002/0058/0063

AUTHOR: Yeliseyev, P. G.; Novikov, A. A.; Fedorov, V. B. 57  
44 44 44 55  
13

TITLE: The effects of optical interaction of two diode lasers 25,44

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 2, 1965, 58-63

TOPIC TAGS: laser, diode laser, gallium arsenide, gallium arsenide laser, injection laser, semiconductor laser, optical interaction

ABSTRACT: The optical interaction of two diode lasers placed less than 5  $\mu$  apart was studied experimentally. The gallium arsenide p-n diodes obtained by cleaving a single crystal into two parts 425 and 1450  $\mu$  long, were placed in the same plane in liquid nitrogen and pumped by square-wave current pulses with an amplitude of 0.5-2.5 amp and a duration of 1.5  $\mu$ sec from two oscillators. The emission spectra were observed by means of ISP-51 and DFS-8 spectrographs and were recorded by an FEU-22 photomultiplier. The emission spectra of the 425- $\mu$  (short) and 1450- $\mu$  (long) diodes were in the  $\lambda_{short} = 8420-8435 \text{ \AA}$  and  $\lambda_{long} = 8465-8478 \text{ \AA}$  regions, respectively, and consisted of modes spaced 1.7  $\text{\AA}$  and 0.8-0.9  $\text{\AA}$  apart, respectively. The optical interaction was evidenced when during the pulse coincidence the relative

Card 1/2

L 2972-66

ACCESSION NR: AP5021726

2

maxima of the  $\lambda_{short}$  and  $\lambda_{long}$  lines changed correspondingly; moreover, a decrease in the  $\lambda_{short}$  and an increase in the  $\lambda_{long}$  line intensities were observed from the short diode side, while an increase in the intensity of both lines was observed from the long diode side. Thus, the optical interaction effect, as observed from the short diode side, was the decrease in line intensity from the short diode side due to the introduction of an external emission into its active medium, and, from the long diode side, an increase in the intensities of both lines due to the time coincidence of pumping pulses. The optical interaction is further explained in terms of the effect of coupled modes on the population of the energy levels. Orig. art. has: 2 figures.

[YK]

ASSOCIATION: Institut tekhnoy mekhaniki i vychislitel'noy tekhniki Akaderii nauk SSSR (Institute of Pure Mechanics and Computer Technology, Academy of Sciences, SSSR)

44

SUBMITTED: 25May65

ENCL: 00

SUB CODE: EC, OP

NO REF SOV: 000

OTHER: 005

ATD PRESS. 4109

BVK

Card 2/2



NOVIKOV, Aleksandr Aleksandrovich, dvazhdy geroy Sovetskogo Soyuz;  
SHIROKOV, B.A., red.; GURDZHIYEVA, A.M., tekhn. red.

[Jet equipment in commercial aviation] Reaktivnaia tekhnika v transportnoi aviatsii. Leningrad, Ob-vo "Znanie" RSFSR, 1963. 64 p. (MIRA 17:3)

MAKSIMOV, Vitaliy Ivanovich; NOVIKOV, Aleksandr Alekseyevich;  
PROKOF'YEV, Oleg Pavlovich; TAPSEKIY, Yu.S., red.

[Special-purpose undersea fleet; means of mastering the  
ocean depths] Podvodnyi flot spetsial'nogo naznacheniia;  
sredstva osvoeniia morskikh glubin. Moskva, Voenizdat,  
1965. 103 p. (MIRA 18:6)

1957, 1, 1.

1957, 1, 1. -- ...  
Male Student ...  
Inst. of Physical Culture. ...  
Degree of Candidate in Education ...

1. Mal'kovskiy ...

NOVIKOV, A.A.

Using the S-492 dumping and piling machine. Mekh. stroi. 18  
no. 3:16 Mr '61. (MIRA 14:5)  
(Loading and unloading)

BELOKHONOV, I.V., kand.sel'skokhoz.nauk; LOBANOV, G.A., kand.sel'skokhoz.  
nauk; NOVIKOV, A.A., kand.sel'skokhoz.nauk; STEPANOV, S.B.,  
kand.sel'skokhoz.nauk; CHIGRIN, V.B., kand.sel'skokhoz.nauk;  
OZEROV, V.N., red.; DEYEVA, V.M., tekhn.red.

[Fruit culture] Plodovodstvo. Moskva, Gos.izd-vo sel'khoz.  
lit-ry, 1960. 334 p. (MIRA 14:1)

1. Nauchno-issledovatel'skiy institut sadovodstva imeni I.V.  
Michurina (for Belokhonov, Lobanov, Novikov, Stepanov, Chigrin).  
(Fruit culture)

NOVIKOV, A.A., RUSSEV, V.V.

Recording electroencephalograms with an EEP-4M electrocardiograph.  
Vrach.delo no.3:283 Mr'58 (MIRA 11:5)

1. Kafedra infektsionnykh bolezney (zav. - prof. L.K. Korovitskiy)  
i kafedra normal'noy fiziologii (zav. - prof. F.N. Serkov) Odesskogo  
meditsinskogo instituta.

(ELECTROENCEPHALOGRAPHY)

(ELECTROCARDIOGRAPHY)

KARNAUKHOV, Ivan Prokof'iyevich, dots.; IVANKIN, Vasily Kirillovich, prof.; VELESOL, Konstantin Nikolayevich, dots.; BURDAENKO, Nikolay Vasil'yevich, dots.; MISHKIN, Konstantin Georgiyevich, dots.; LANGE, K.F., kand. sel'khoz. nauk, dots., retsenzent; MERKULOV, M.F., kand. sel'khoz. nauk, dots., retsenzent; NOVIKOV, A.A., kand. sel'khoz. nauk, dots., retsenzent; NOSUL'KO, T.M., st. prepod., retsenzent; SAFRONOVA, O.G., st. prepod., retsenzent; YERINOV, A.L., ed.

[Fundamentals of agriculture] Osnovy sel'skogo khozyaystva.  
3. perer. izd. Moskva, Prosvetshenie, 1975. 618 p.

(BIRA 18:3)

1. Kuybyshevskiy pedagogicheskiy institut (for Lange, Merkulov).
2. Orlovskiy pedagogicheskiy institut (for Novikov, Nosul'ko, Safronova).

NOVIKOV, A.B.

Investigating the wear resistance of VK2 and TZOK4 alloys  
during machining of modified cast iron. Stan.1 instr. 29  
no.1:24-25 Ja '58. (MIRA 11:1)  
(Alloys--Testing)



NOVIKOV, A.B.; SOLOV'YEV, N.A.; POTEKIN, N.A.

Pneumatic mandrel for gripping thin-walled parts. *Avt.prom.*  
28 no.1:43 Ja '62. (MIRA 15:2)

1. Yaroslavskiy motornyy zavod.  
(Lathos)

NOVIKOV, A.B.

Extrusion instead of machining. Avt. prom. 29 no.11:41-42  
N '63. (MIRA 16:12)

1. Yaroslavskiy motornyy zavod.

Subject : USSR/Aeronautics AID P - 3678  
Card 1/1 Pub. 135 - 5/22  
Author : Novikov, A. D., Guards Lt. Col., Pilot Class II  
Title : Carefulness of the technical and flying personnel  
Periodical : Vest. vozd. flota, 1, 18-22, Ja 1956  
Abstract : This article belongs to the series "Notes of a commander of a unit without accidents." The author describes, in several simple examples, how to avoid accidents by training and good organization. Names are mentioned.  
Institution : None  
Submitted : No date

NOVIKOV, A.E.

Propaganda sel'skokhoziaistvennykh  
znaniy (Popularizing agricultural knowledge). No-  
skva. Goskul'tprosvetizdat, 1953. 59 p. (B-chka  
sel'skogo klubnogo rabotnika. no. 14)

SJ: Monthly List of Russian Accessions, Vol. 7, No. 1, August 1953.

NOVIKOV, A.F., inzh.

Testing and checking of electropneumatic brakes. Elek. i tepl. tiaga  
7 no.6:41-43 Je '63. (MIRA 16:9)

(Railroads--Brakes)

GORYUNOV, B.F., kandidat tekhnicheskikh nauk; GUDANETS, U.A., kandidat tekhnicheskikh nauk; ZLATOVERKHOVNIKOV, L.F., kandidat tekhnicheskikh nauk; KAGAN, Ya.Eh., kandidat tekhnicheskikh nauk; KRIVOV, A.K., inzhener; KUROCHEIN, S.N., inzhener; LYAKHNITSKIY, V.Ye., doktor tekhnicheskikh nauk, professor; ~~NOVIKOV, A.E.~~ kandidat tekhnicheskikh nauk; ROMASHOV, D.G., inzhener; SHTENTSEL', V.K., kandidat tekhnicheskikh nauk; KUZ'MIN, T.P., redaktor; ZAYTSEV, N.N., redaktor; NELEDOVA, E.S., redaktor izdatel'stva; TIKHONOVA, Ye.A., tekhnicheskij redaktor

[Port hydrotechnical installations; construction and design] Portovye gidrotekhnicheskie sooruzhenia; konstruirovaniye i raschet. Moskva, Izd-vo "Morskoi transport," 1956. 537 p. (MLRA 9:11)  
(Harbors)

NOVIKOV, A.F., kand.tokhn.nauk; SHPARBERG, B.I.

Actual measurements of the elastic line of a metal groove. Trudy  
TSNIIMF 7 no. 32:41-47 '61. (MIRA 14 5)  
(Elasticity--Measurement)

SHKOL'NIK, E.V.; PINSKIY, G.B.; NOVIKOV, A.F.

Experimental hydraulic generator at the Volga Hydroelectric Power Station "22d Congress of the CPSU). Biul.tekh.-ekon.inform.Gos.-nauch.-issl.inst.nauch.i tekhn.inform. no.11:69-72 '62. (MIRA 15:11)  
(Volga Hydroelectric Power Station (22d Congress of the CPSU))



SHKOL'NIK, E.V., inzh.; PINSKIY, G.B., inzh.; NOVIKOV, A.F., inzh.

Experimental hydrogenerator of the Volga Hydroelectric Power  
Station (22d Congress of the CPSU). Vest. elektroprom 34  
no.6:1-4, Je '63. (MIRA 16:7)

(Volga Hydroelectric Power Station (22d Congress of the CPSU))

NOVIKOV, A.F., inzh.

Testing of oil supply systems and automatic control of the glands  
of the TGV-200 generator. Energ. i elektrotekh. prom. no.4:49-51  
O-D '64. (MIRA 18:3)

22880

S/089/61/010/005, 008/015  
B102/B214

26.2240

AUTHORS: Doil'nitsyn, Ye. Ya., Novikov, A. G.

TITLE: Measurement of spectra and temperature of neutron gas in a  
graphite-moderated water-cooled reactor

PERIODICAL: Atomnaya energiya, v. 10, no. 5, 1961, 517-519

TEXT: In the present "Letter to the Editor" experiments are described on

22880

Measurement of spectra and temperature of... S/089/61/010/005/006/015  
B102/B214

efficiency of about 8 %; the selector background was 2-3 % of the effect. It was assumed that the neutron spectrum in the beam is identical with that in the reactor. The thermal neutron spectrum (for 0.05 % to 70 % reactor power) was Maxwellian for cold as well as hot graphite in the range of 0.1 eV to the lower limit of measurement. The neutron temperature was determined from the spectrum and according to the method of the boron filter. The results are shown in Fig. 2. The difference of the neutron and graphite temperatures can be described by the formula

$T_n - T_{gr} = 0.8 T_{gr}^{0.72}$ . There are 2 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: G. Leibfried. Nucl. Sci. Engng. 4, No. 4, 570 (1958).

SUBMITTED: January 17, 1961

Card 2/3

42558

S/089/62/013/005/011/012  
B102/B104

AUTHORS: Doil'nitsyn, Ye. Ya., Novikov, A. G.

TITLE: Measurement of thermal neutron spectra in boric acid solutions

PERIODICAL: Atomnaya energiya, v. 13, no. 5, 1962, 491-493

TEXT: The thermal neutron spectra in water and aqueous solutions of boric acid were measured anew since the results obtained by other authors are inconsistent and disagree with theory (M. Pool, J. Nucl. Energy, 5, 323, 1957; R. Walton et al., MAGATE Symposium, Vienna 1960; H. Amster, Nucl. Sci. and Engng. 3, 394, 1957). The measurements were carried out in a cylindrical tank, 60 cm long and 50 cm in diameter. A neutron beam from a graphite reactor was passed through a Cd plate and a tube, and thence to a lead sphere placed in the middle of the tank. It served as a spherical neutron source with Fermi spectrum. The spectra were measured using a mechanical selector with a 256-channel time analyzer. With a rotor speed of 3000 rpm, the time resolution of the apparatus was 40μsec/m. Correction was made for the deviation of the detector sensitivity from the  $1/v$  law, the transmission function of the rotor and the neutron absorption

Measurement of thermal neutron ...

S/089/62/013/005/011/012  
B102/B104

in the air. The measurements were made at two absorber concentrations per hydrogen atom:  $\sigma_c = 1.5$  b (1) and  $\sigma_c = 2.9$ b(2). The experimental curves agreed with the corresponding Maxwell distributions for a neutron temperature  $T_n = (333 \pm 15)^\circ\text{K}$  for pure water;  $T_n = (358 \pm 15)^\circ\text{K}$  for (1) and  $T_n = (382 \pm 15)^\circ\text{K}$  for (2) with a water temperature of  $320^\circ\text{K}$ . The spectra measured coincide with those calculated by G. I. Marchuk et al. (Atomnaya energiya, 13, no. 6, 600, 1962). There are 2 figures.

SUBMITTED: June 9, 1962

Card 2/2

DOIL'NITSYN, Ye.Ya.; NOVIKOV, A.G.; STAKHANOV, I.P.; STEPANOV, A.S.

Temperature relaxation of a neutron gas. Atom. energ. 15 no.3:  
255-258 S '63. (MIRA 16:10)

(Neutrons—Spectra)

BOILNITSYN, Ye. Ya.; NOVIKOV, A. G.; GLAVKOV, Ya. Ya.

"The study of neutron thermalization in water and graphite-water reactor lattices."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 5. Aug-9 Sep 64.



NOVIKOV, A.G.

Climatology and the Requirements of Industry. Meteorol. i gidrologiya,  
No 5, 1953, pp 16-19

The author reports on the construction of the climatic atlas of  
Orlovskaya Oblast. In his opinion, "climatology" is the science that  
studies the interrelations of climate-forming factors at a certain geo-  
graphical latitude. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

NOVIKOV, A.G.; SINITSYN, F.Ye.; SKVORTSOV, I.V.

Prospects for finding oil and gas in southern and southeastern  
Kazakhstan, northern Kirghizia, and the eastern Ural Mountain  
region. Trudy VNIGNI no.35:288-301 '61. (MIRA 16:7)  
(Petroleum geology) (Gas, Natural--Geology)

NOVIKOV, A.G.; SINITSYN, F.Ye.; ZAGORUYKO, V.A.

Geology, prospects for finding oil and gas, and trends in geologic  
studying of the Kyzyl Kum. Izv.AN Kazakh.SSR. Ser.geol. no.5:16-26  
'62. (MIRA 15:12)

(Kyzyl Kum—Geology, Economic)

NOVIKOV, A.G.

Association of the mercury-complex metal mineralization of  
the Talas-Ala-Tau with the volcanic complexes. Trudy Lab.  
paleovulk. Kazakh. gos. un. no.56:224-226 '63.

(MIRA 16:6)

1. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye.  
(Talas-Ala-Tau—Mercury ores)  
(Talas-Ala-Tau—Volcances)

NOVIKOV, A.G.; SINITSYN, F.Ye.; FILIP'YEV, G.P.;

Tectonics of troughs in southern Kazakhstan in relationship  
with oil and gas potentials. Izv. All Kazakh. SSR. Ser. geol. nauk  
no. 4: 3-14 '63. (MIRA 16:9)

1. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye Minis-  
terstva geologii i okhrany neдр KazSSR, g. Alma-Ata.

И. ВИКОВ, А. Г.

Polymers of the type of ...  
Mater. Sci. ...

NOVIKOV, A.G., inzh.

Problem of determining loss of pressure in grates. Gidr.stroi.  
26 no.10:50-51 0 '57. (MIRA 10:10)  
(Hydraulic turbines)

14(2)

SOV/99-59-3-7/10

AUTHOR: Novikov, A.G., Engineer

TITLE: Trench Digger "Howard" (Tranzheyekopatel' "Govard")

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 3, pp 38-41  
(USSR)

ABSTRACT: The article deals with testing an English trench digger of the "Howard" type, for laying drain pipes made by the firm Rotary Hodge in Great Britain. The tests took place at the Kolkhoz "Ledurga" ("Ledurga" Kolkhoz), Sigulda rayon, Latvian SSR, during September-October 1957. The trench digger has also been tested at the testing farms of the Pribaltiyskaya MIS (Baltic MIS) and the Nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii Akademii nauk Latvyskoy SSR (Research Institute of Hydraulic Engineering and Melioration of the AS Latvian SSR) located in the Baldone rayon. During the testing period, a total of 1,900 m of trenches was dug, yet the trench digger's performance was found inadequate

Card 1/2



Trench Digger "Howard"

SC7/99-59-3-7/10

for the following reasons: 1) its maximal digging depth proved too shallow (only 1,180 mm instead of 1,500 mm according to Soviet requirements) and 2), there were frequent breakdowns due to stony ground as the trench digger was designed for work on stoneless terrain. There are 2 photos.

Card 2/2

14(6)

SOV/94-10-7-11 11

AUTHOR: Novikov, A.G., Engineer

TITLE: The Calculation of the Capacity of the Receiver and the Productivity of the Compressor for Compensatory Operating Conditions of GES Hydro-Aggregates (opredeleniye yemkosti resivera i proizvoditel'nosti kompressora dlya kompensatornogo rezhima gidroagregatov ges).

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1952, Nr 7, pp 52-53 (USSR)

ABSTRACT: In this article, written in response to an article by Engineer Ya.S. Degtyarev in "Kotlostroyeniye", 1952, Nr 5, the author challenges the universality of the formula for determining the receiver's volume

$$V_p = \frac{V_k(1+p_k)q - V_{kc}}{p_p - p_k}$$

suggested by Degtyarev

Card 1/3

because it contains a coefficient of air leakage  $q$  which in the author's opinion, ought not to be in

SOV/98-52-3-15/17

The Calculation of the Capacity of the Receiver and the Productivity of the Compressor for Compensatory Operating Conditions of GES Hydro-Aggregates

a formula for calculating compressor productivity. He recommends to use the following two formulae

1) For calculation of the receiver's capacity

$$V_p = \frac{V_k p_k - V_e}{p_p - p_0} ; \quad 2) \text{ For calculation of compressor's}$$

$$\text{productivity: } \eta = \frac{V_p (p_p - p_0)}{t} + \frac{n V_k \eta}{60} ; \quad \text{wherein}$$

$V_p$  is receiver capacity in  $m^3$ ,  $V_k$  is the volume of air space in the chamber of the turbine's work wheel after forcing out the water, plus the volume of air space of the spiral and the section before the emergency stopper after forcing out the water when the emergency stopper is closed (expressed in  $m^3$ ),  $p_k$  is air pressure (in ata) in the work wheel

Card 2/3

SOV/98-50-7-18/17

The Calculation of the Capacity of the Receiver and the Productivity of the Compressor for Compensatory Operating Conditions of GES Hydr-Aggregates

chamber, corresponding to the difference in water level between the lower water of the GES and the forced-out,  $\text{kg/cm}^2 \cdot \text{l}$ .  $V_0$  is the total air space volume, expressed in  $\text{m}^3$ , of water-free space in the work wheel's chamber and in the turbine's spiral chamber;  $p_1$  is the maximal work air pressure in the receiver in  $\text{kg/cm}^2$ ,  $p_0$  is the residual air pressure in the receiver after removal of water, accepted to be greater than  $p_1$  by  $0.5-1 \text{ kg/cm}^2$ .  $Q$  is the compressor's productivity in  $\text{m}^3/\text{min}$ ;  $n$  is the total number of aggregates being transferred into compensatory conditions;  $t$  is time interval needed for restoration of normal air pressure in the receiver in minutes;  $q$  is the coefficient of air leakage in  $\text{m}^3/\text{hour}$  which has to be ascertained experimentally

Card 3/3

NOVIKOV, A.G., inzh.

Heads of turbine water inlets. Gidr.stroi. 31 no.4:48-50 Ap '61.  
(MIRA 14:5)

(Hydroelectric power stations)

ACC NR: AP7000313

SOURCE CODE: UR/0413/66/000/022/0030/0030

INVENTOR: Novikov, A. G.

ORG: none

TITLE: Multilayer spiral-joint tube. Class 7, No. 188471

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 30

TOPIC TAGS: metal tube, ~~multilayer metal tube, spiral-joint tube~~ *metal joining*

ABSTRACT: This Author Certificate introduces a multilayer spiral-joint tube formed from step-shaped skelps. To increase the tube strength and to obtain uniform wall thickness, the skelp steps are of equal width and are joined on the whole surface in such a way that the analogous steps form a corresponding layer. Orig. art. has: 1 figure [TD]

SUB CODE: 13/ SUBM DATE: 04Feb63/ ATD PRESS: 5109

Card 1/1

UDC: 621.774.21: :621.643.23/24

MATVEYEV, Yu.M., doktor tekhn. nauk; VYDRIN, V.N., doktor tekhn. nauk;  
FINKEL'SHTEYN, Ya.S., kand. tekhn. nauk; KAUFMAN, M.M., kand.  
tekhn. nauk; GLEYBERG, A.Z., kand. tekhn. nauk; NOVIKOV, A.G.,  
inzh.; SITNIKOV, L.L., inzh.; NODFV, E.O., inzh.; STOLETNIY,  
M.F., inzh.; STERN, V.A., inzh.; FRIDMAN, D.S., inzh.

Operating conditions and wear of mandrels on the continuous  
billet mill of a 30-102 pipe rolling unit. Stal' 25 no.10-  
930-934 0 '65. (MIRA 18.11)

ACC NRI A-6014570 (A,N)

SOURCE ORIGIN: UR/034705/0050005/0035

AUTHORS: Vydrin, V. N.; Boykov, A. G.

TITLE: Velocity and length of a floating mandrel during continuous rolling of pipes

SOURCE: Izv. vuzov. Metal. obrab. Mash. Stroj. 1965

REF SOURCE: Zh. Prikl. svyazn. i mashinov. trub. Vyp. 3. M., Metallurgiya, 1965, TD-73

TECH TAGS: pipe, metallurgy; process, metal working; machine, metal tube, metal rolling

ABSTRACT: The fundamental equation of motion of a floating mandrel during a continuous pipe rolling process was derived. The methodology of calculating the velocity and optimum length of a free floating mandrel was improved. Formulas for determining the advance of the mandrel from the pipe and velocity of the free floating mandrel were derived. The calculated results were compared with experimental data. 2 illustrations, 2 tables. Bibliography of 6 citations. L. Kochenova [Translation of abstract]

SUB CODE: 13

Card 1/1 MLP

UDC: 621.774.001



NOVIKOV, A.G.; KONOVALOVA, L.I.; FADEYEVA, T.M.

Continuous dyeing with insoluble azo dyes with partial drying  
of the fabric after "azotolation." Tekst.prom. 25 no.11:69-  
70 N '65. (MIRA 18:12)

1. Glavnyy inzhener Ivanovskogo khlopchatobumazhnogo kombinata  
imeni Samoylova (for Novikov). 2. Zaveduyushchiy khimicheskoy  
laboratoriyey Ivanovskogo khlopchatobumazhnogo kombinata imeni  
Samoylova (for Konovalova). 3. Starshiy inzhener-khimik Ivanov-  
skogo khlopchatobumazhnogo kombinata imeni Samoylova (for Fadeyeva).

NOVIKOV, A.G.

Automatic fabric guide for textile printing machines. Tekst. prot.  
18 no.2:58-59 F '58. (MIRA 13:3)

1.Nachal'nik pechatnogo tsekha kombinata imeni III Internatsionala  
(Textile printing) (Automatic control)

NOVIKOV, A.G., elektromekhanik

Improve the climbers for climbing poles. Avton., telex. i sviaz'  
2 no.5:40 My '58. (MIRA 11:5)

1. Stantsiya Ponyri Moskovsko-Kursko-Donbasskoy dorogi.  
(Telephone lines--Equipment and supplies)

NOVIKOV, Andrey Grigor'yevich; PETROV, Georgiy Grigor'yevich;

• POLOSINA, G.V., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Construction and engineering maintenance of VA-345M and  
FMR-III billing machines] Konstruktsiia i tekhnicheskoe  
obslyuzhivanie fakturnykh mashin modelei VA-345M, FMR-III;  
uchebnoe posobie dlia shkol i kursov UPK TsSU SSSR. 3.,  
perer. i dop. izd. Moskva, Gosstatizdat, 1963. 249 p.  
(MIRA 17:1)

ACCESSION NR: AP4024990

S/0070/64/009/002/0227/0230

AUTHORS: Fomin, V. G.; Malyutina, G. L.; Gurevich, M. A.; Novikov, A. G.

TITLE: Distribution of gold in germanium single crystals

SOURCE: Kristallografiya, v. 9, no. 2, 1964, 227-230

TOPIC TAGS: germanium, gold, antimony, gold alloyed germanium, antimony alloyed germanium, alloy distribution in crystals, spectral germanium analysis, x-ray germanium analysis, GUR-3 x-ray goniometer, URS-501 x-ray apparatus, lattice structure, dislocation density, dispersion, alloy separation, cooling effect

ABSTRACT: The distribution of small quantities of gold in germanium single crystals was studied with the use of a double-crystal spectrometer (Bragg-Bragg orientation) and a special attachment mounted on the GUR-3 goniometer of a URS-501 x-ray apparatus. The n-type germanium served as a crystal-monochromator, while the samples studied were cut from different parts of a germanium ingot alloyed with gold to  $10^{15}\text{cm}^{-3}$  and with antimony to  $10^{14}\text{cm}^{-3}$ . The concentration of the uncontrolled acceptor-admixtures did not exceed  $10^{13}\text{cm}^{-3}$ . Data obtained by the x-ray and metallographic (etching) analyses were compared after the dislocation

Card 1/2

ACCESSION NR: AP4024990

density in the areas studied spectrometrically was determined. It was at first established that defects observed in the Ge crystalline lattice were caused by the presence of Au and Sb. Further study showed that gold rather than antimony atoms were responsible for the presence of these defects. An explanation is offered of two possible causes of the phenomenon: 1) the presence of dispersed eutectic inclusions of Au; 2) dispersion separation of Au from the solid solution during cooling. The authors conclude that gold atoms in a germanium monocrystal are distributed between the undisturbed matrix and dislocations. Orig. art. has: 3 figures.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy proyektorny institut redkometallicheskoj promyshlennosti (State Scientific Research Institute of Rare Metals Industry)

SUBMITTED: 16May63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: ML, PH

NO REF SOV: 004

OTHER: 008

Card 2/2

NOVIKOV, A.G.

[Succulent feed for cows] Sochnye korma v ratsione korov. [Gor'kii]  
Gor'kovskoe kn-vo, 1953. 53 p. (MLRA 9:11)  
(Cattle--Feeding and feeding stuffs)

BOGDASHIN, A.S.; BOGORODSKIY, A.A.; VINGARDT, M.B.; GORBUNOV, V.I.;  
GORBUNOV, V.R.; DUROV, V.K.; YERMAKOV, A.L.; IVANOV, A.A.;  
KARAKOVA, M.I.; KOBILYAKOV, L.M.; KOZLOVSKIY, N.I.; KARAKHTANOV,  
K.P.; MIRUMYAN, G.M.; NECHETOV, G.P.; NOVIKOV, A.G.; GL'KHOVSKIY,  
K.I.; PESTRYAKOV, A.I.; POLAPANOV, A.V.; SKLYAREVSKAYA, Ye.Kh.;  
SOLDATANKOV, S.I.; SOROKIN, Ye.M.; TRUSHINA, Z.V.; FEDOROV, P.F.;  
FEDOSEYEV, A.M.; FROG, M.P.; SHAMAYEV, G.P.; YANOVSKIY, V.Ya.;  
ORZKHOV, A.D., spetsred.; DEYEVA, V.M., tekhn.red.

[Handbook on new agricultural machinery] Spravochnik po novoi  
tekhnike v sel'skom khozistve. Moskva, Gos.izd-vo sel'khoz.  
lit-ry, 1959. 364 p. (MIRA 13:2)  
(Agricultural machinery)



GORBUNOV, V.I., inzh.; MIRUMYAN, G.N., inzh.; YANOVSKIY, V.Ya.,  
inzh.; IVANOV, A.A., inzh.; YERMAKOV, A.L., inzh.; FEDULOV,  
P.F., inzh.; LARYUKHINA, G.G., inzh.; NECHETOV, G.F., inzh.;  
~~NOVIKOV, A.G.,~~ inzh.; DUROV, V.K., inzh.; BARSUKOV, A.F.,  
red.; PECHENKIN, I.V., tekhn. red.

[New tractors and agricultural machines; test results of 1957]  
Novye traktory i sel'skokhoziaistvennye mashiny; rezul'taty  
ispytaniy 1957 goda. Moskva, M-vo sel'.khoz.SSSR. No.3. 1959.  
350 p. (MIRA 15:10)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye mekhanizatsii  
i elektrifikatsii sel'skogo khozyaystva.  
(Agricultural machinery)

NOVIKOV, A.G.

Experience in using mechanized processing of data of agrometeorological observations for the characteristics of agroclimatic conditions of growing spring wheat. Trudy TSIP no. 14:3-35 '65. (MIRA 19:7)

NOVIKOV, A.I.; STERNZAT, M.S., red.

[Meteorological instruments; repair and adjustment] Meteorologicheskie  
pribory; remont i regulirovka. Leningrad, Gidrometeor.izd-vo, 1951.  
94 p. (MIRA 12:10)

(Meteorological instruments)

NOV 19 1951

551.508  
 ✓ № 7-41 № 7-41 Meteorologicheskie pribory. Rehrony i regulirovka. [Meteorological instruments—tests and calibration.] 2nd rev. ed. Leningrad, 1952. 105 p. 58 diagrs., tables, 8 refs. DLC—This instrument maintenance manual is limited to pressure, temperature and humidity instruments. Detailed instructions are given for station control, inspection and expedition barometers, mercury manometer, the cleaning and distillation of mercury air suction pumps, stationary aneroid and height barometers, barograph and hypsometer, thermometer and thermograph, aspiration psychrometer, hair hygrometer, hygrograph and the clock mechanism of automatic recorders. A detailed list of thermometers and barometers used in the Soviet Union is given on pp. 98-100 and a list of control and repair stations on pp. 105-106. Subject Headings: 1. Meteorological instruments 2. Instrument maintenance 3. Instrument manuals 4. U.S.S.R. —I.A.

*graphs* 3  
18

*NU*

*Novikov, P. I.*  
USSR/Automatics and telemechanics

FD-2666

Card 1/1                    Pub. 10-13/15

Author                    : Demeshin, V. P.; Kostetskaya, I. A.; Novikov, A. I.; Pozin,  
N. V.; and Kashirin, V. A.

Title                     : Bibliography. A list of Russian and translated literature on  
telemetering for 1950-1954

Periodical                : A list of 39 works on telemetering, Russian and translated.  
For 1954: V. D. Ambrosovich and V. S. Malov, "Telemetering  
apparatus for 400-kv lines," Trudy TsNIEL, No 2, 244-260. N. A.  
Givartovskaya, "Ways to increase the accuracy of telemeter de-  
vices," Sb. statey, Telemekhanizatsiya energosistem, Academy  
of Sciences USSR Press, pp 70-77. etc. For 1953: N. N.  
Shumilovskiy and V. N. Mikhaylovskiy, "Design computation of an  
acoustic communication channel," Voprosy avtomatiki i izmeritel'-  
noy tekhniki [Problems of automatics and measuring techniques],  
Vol. 2, No 1, Acad. Sci. Ukr. SSR Press. etc.

Institution               :  
Submitted                :

*Novikov, A. I.*  
USSR/Automatics and telemechanics · FD-2060

Card 1/1 Pub. 10-7/15

Author : Il'in, V. A., and Novikov, A. I. (Moscow)

Title : Choice of multichannel pulse telemetering systems

Periodical : Avtom. i telem. 16, Jul-Aug 1955, 372-381

Abstract : The authors consider the most characteristic multichannel telemetering systems. They present quantitative evaluations of them. On the basis of expounded criteria they compare the systems and analyze the trends of their development. They conclude that the development of telemechanization necessitates a wider application of multichannel pulse systems, which in industrial telemechanics permit a more rational transmission of several remote readings from one point to another. In aviation multichannel radiotelemetering systems permit more convenient transmission of information necessary for airplanes and create the possibility of the automatization of take-off, flight, and landing of aircraft. The authors note that some of the most prospective commutators in telemetering systems are commutators based on magnetic elements with rectangular hysteresis loops. Fourteen references, e.g. "Trochotrons and their application," Voprosy raketnoy tekhniki [Problems of rocket techniques], No 1, 1952; "Collection of translation on the techniques of transmission of results of measurements by radio, under the editorship of P. I. Yevdokimov, B. Kh. Krivitskiy and Yu. A. Shumikhin," Military Press, 1955.

Institution :

Submitted : March 16, 1955 *Trans. No. 56 3711*

SOV/112-57-9-19291

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 9, p 194 (USSR)

AUTHOR: Novikov, A. I.

TITLE: Matrix Commutator (Matrichnyy kommutator)

PERIODICAL: Sb. rabot po avtomatike i telemekhanike. M., AN SSSR, 1956,  
pp 245-252

ABSTRACT: Matrix commutators with rectangular type matrices are considered. The principle of the construction of matrix commutators is described, definitions are given, and formulae for calculating commutation parameters are presented. The necessity and possibilities are pointed out for selecting an optimum version of matrix construction for a given number of inputs, columns, which should have a maximum number of channels (outputs). A simplified electrical design of rectangular-type matrix commutators is submitted, and its limits of application and accuracy are indicated. There are 6 illustrations. Bibliography: 2 items.

V.G.L

Card 1/1

NOVIKOV, A.I.

AUTHOR:

NOVIKOV, A.I.

103-8-6/8

TITLE:

Exponential Time-Pulse Transformers. (Eksponentsial'nyye vremya-impul'snyye preobrazovateli, Russian)

PERIODICAL:

Avtomatika i Telemekhanika, 1957, Vol 18, Nr 8, pp 749-755 (U.S.S.R.)

ABSTRACT:

The basic relations for such transformers are investigated. Their schemes are described, and, because exponential transformers make it possible to develop multi-channel telemeter systems without commutators with a subdivision of channels with respect to time, a three-channel telemeter system is described by way of an example. The following may be said as a result of investigations carried out:

- 1.) In an exponential time-pulse transformer deviation with respect to time does in principle not depend on the modification of the feed voltage, which is a considerable advantage. The schemes of exponential transformers are characterized by their comparative simplicity.
- 2.) Exponential transformers have a rather wide range within which rapid action is possible. They can be used in telemeter systems which are used for the transmission of fast developing processes, as well as for systems which are able to transmit slowly changing quantities.

Card 1/2



103-19-8-5/11

AUTHORS:

Il'in, V. A., Novikov, A.I. (Moscow)

TITLE:

New Principles for the Construction of Telemetering Systems With Pulse-Frequency and Pulse-Width Modulation (Novyye printsipy postroyeniya sistem teleizmereniya s vremya-impul'snoy i shirotno-impul'snoy modulyatsiyey)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 8, PP 757-761 (USSR)

ABSTRACT:

As a result of the work intended for the construction of highly stable transducers (modulators, demodulators etc.) new, simple highly stable pulse-frequency and pulse-width transducers were proposed and developed at the Institute for Automation and Telemetering of the AS USSR (Institut avtomatiki i telemekhaniki AN SSSR), which were denoted as exponential transducers. They are described and the foundations of their theory are detailed. The exponential pulse-width transducer consists of a bridge, to the one branch of which belong the resistances  $R_1$  and  $R_2$ , whereas the other capacitance and a resistance or an inductivity and a resistance. A diode is inserted into the diagonal connection of the bridge. The fundamental formulae are

Card 1/2

New Principles for the Construction of Telemetering Systems With Pulse-Frequency and Pulse-Width Modulation 103-19-8-5/11

written down. A new method for the construction of a multi-channel system with pulse frequency modulation and a time separation of the channels without a commutator is given. Furthermore the diagram of the transmitter (peredatchik) and of the receiver of a one-channel telemetering system BUT-1 is given. This is done primarily to replace the outdated system of the Bristol Company (Bristol'). The characteristic particularity of the receiver is the memory element. The characteristics obtained on the basis of the investigation are given. The errors of measurement correspond to those of equipment of first grade. The system operates normally, when the resistance connected in series to the leads is varied from 0 to 10,000 ohms. There are 8 figures.

SUBMITTED: April 1, 1958

1. Telemeter systems--Design
2. Telemeter systems--Equipment
3. Transducers--Design
4. Electric bridges--Performance

Card 2/2

IL'IN, V.K.; KOVIKOV, A.I.; POLYANSKIY, S.V.; KARASIK, Ye.Ya.

The VST-1 pulse-time telemetering system. Biul.tekh.-ekon.  
inform. no.8: 36-37 '59. (MIRA 13:1)  
(Telemeter)

3/103/CC/0.11/0.11/0.11/XX  
B116/BAG

AUTHOR

Navikov, V. I.

TITLE

Exponential transformers with a logarithmic law of transformation

PERIODICAL

Automatika i Telemekhanika, 1967, No. 1, p. 10-12, 13 figs.

TEXT: The author points out that a linear relationship between assumed and assumed parameters may warrant not only linear transformers. The linear transformer is regarded as a special case of a functional transformer. Some types of functional transformers warrant a sufficiently high transformer stability and have simple circuit diagrams. The author studies exponential transformers of this type. By means of an exponential transformer with a logarithmic law of transformation a voltage which varies according to the law  $ke^{-t/T}$  or  $k(1 - e^{-t/T})$  is compared to the kick-up voltage. The transformer is a bridge circuit (Fig. 1). A rectangular voltage (Fig. 2a) is periodically applied to the bridge by means of a relay. The voltage at the capacitor C increases according to curves in Fig. 2b. Fig. 2c shows the change of the current  $i_{cap}$  through the capacitor. At the instant of

Card 1/1

Exponential transformers with a...

5/103/60/02/007/014/014/111  
111 EAC

comparison  $t_c$  (when the voltage at the... the voltage  $U_R$  of  
 the diode opens... the current  $I_{H1}$  in the  
 diode circuit and the... circuit diagram of  
 the transformer... the following formula is  
 obtained

Card - 1/101

33031 R

S/103/60/C21/CC7/012/014/XX  
B116/3202

Exponential transformers with a ...

$$t_c = CR_0 \ln \frac{m + q(1 - \lambda^n)}{1 - \lambda^n - \frac{\Delta E}{Ek}} \quad (13)$$

where  $m = R/R_0$ ,  $q = rK/R_0$ ,  $n = \frac{R_2}{R_1 + R_2}$ ,  $\lambda = \Delta R/R_2$ ;  $\Delta E$  is the voltage at which the diode opens;  $\Delta R$  is the resistance between the slider of the  $R_2$  pick-up and the ground.

$$t_\phi = \tau_2 \ln \frac{Ek}{U_H(t_\phi)} \frac{R_H}{R_0} e^{-\frac{t_\phi}{\tau_1}} \quad (21)$$

is obtained for the trailing edge of a pulse, where  $U_H(t_c)$  is the voltage at which the readings of the decay time  $t_c$  are taken;

$$U_H = Ek \frac{R_H}{R_0} e^{-\frac{t_1}{\tau_1}} e^{-\frac{t_2}{\tau_2}} \left\{ \begin{array}{l} \text{при } 0 \leq t_1 \leq t_c, \quad t_2 = 0. \\ \text{при } 0 < t_2 \leq \infty, \quad t_1 = t_c. \end{array} \right. \quad (22)$$

Card 3/5

33031 K

S/103/6C/021/007/012/014/XX

B116/B202

Exponential transformers with a ...

with  $0 < t_1 \leq t_c$ ,  $t_2 = 0$  and with  $0 < t_2 < \infty$ ,  $t_1 = t_c$ . Formula (22) expresses the change of the voltage at  $R_H$ . It follows therefrom that  $U_H$  passes two stages at  $R_H$ : 1) until it becomes equal to  $t_c$ ,  $U_H$  varies with the time constant  $\tau_1$ ; 2) subsequently,  $U_H$  varies with the time constant  $\tau_2$ . It follows from (13) that the pulse duration depends logarithmically on  $\lambda$ . The author obtains

$$U(\lambda) = E \left[ 1 - \frac{1 - \lambda n - \frac{\Delta E}{E k}}{m + q(1 - \lambda n)} \right] \quad (24)$$

for the voltage  $U(\lambda)$  at the back-transformer. It indicates that  $U$  as a function of  $\lambda$ , changes nonlinearly (Fig. 5). In order to determine the nonlinearity, the nonlinearity factor  $\beta = \Delta U(\lambda_0) / U(\lambda_1)$  (27) is determined.

$$\beta = \frac{\lambda_0 - \lambda_{max}}{1 - \lambda_{max}} - h \left[ 1 - \frac{1 - \lambda n}{m + q(1 - \lambda_0 n)} \right] \quad (25),$$

$$(26),$$

$$\lambda_0 = \frac{m + q}{nq} - \frac{1}{nq} \sqrt{hnm(1 - \lambda_{max})}$$

Card 4/ 5

Exponential transformers with a ...

33031 R  
S/103/60/021/007/014/014/XX  
B116/B202

$$h = \frac{1}{1 - n} \cdot \frac{1}{1 - \frac{m + q(1-n)}{E k}} \quad (30),$$

$$\delta_{\Delta t} = \frac{\tau_2}{\tau_1} \frac{\ln \frac{E k}{U_H(t_0)} \frac{U_H}{R_0} e^{-\frac{t}{\tau_1}}}{\ln \frac{m + q(1-n)}{1 - n - \frac{\Delta E}{E k}}} \quad (33),$$

$$\delta_{\Delta e} = \frac{\tau_2}{\tau_1} \frac{\ln \left( 1 \pm \frac{\Delta e}{U_H(t_0)} \right)}{\ln \frac{m + q(1-n)}{1 - n - \frac{\Delta E}{E k}}} \quad (34).$$

In a detailed study of the errors it is demonstrated that to reduce  $t_0$  and the errors caused by  $t_0$ ,  $R_H$  and  $-R$  must be reduced and  $E$  and  $R$  must be increased. Table 2 shows some circuits and formulas for several other types of transformers. The transformers described here can be used for telemetering, remote signaling, and remote control. There are 12 figures, 2 tables, and 4 Soviet-bloc references.

Card 5/6



NOVIKOV, A.I. (Moskva)

Exponential selector and increase in the interference rejection of  
time telemetry systems. Avtom.i telem. 23 no.10:1375-1384 0 '62.  
(Telemetering) (Pulse techniques (Electronics)) (MIRA 15:11)

NOVIKOV, A.I., inzh.; ALEKSANDROV, B.S., inzh.

Automatic testing of solutions in apparatus. Mekh. i avtom.  
proizv. 18 no.1:16-18 Ja '62. (MIRA 17:2)

GINDICH, M.G., inzh.; MOSKOV, Yu.A., inzh.; NOVIKOV, A.I., inzh.

Using a vibratory percussion unit for unloading frozen loose  
materials. Mekh. i avtom. proizvod. 18 no.6:19-20 Je '64.

(MIRA 17:9)

L 21785-66 ENT(1)/EVA(h)

ACC NR: AP6002871

SOURCE CODE: UR/0286/65/000/024/0034/0034

AUTHORS: Novikov, A. I.; Polyanskiy, S. V.

30  
B

ORG: none

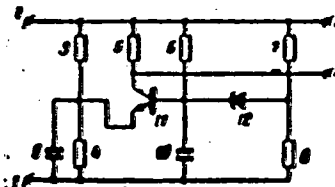
TITLE: A pulse selector.<sup>25</sup> Class 21, No. 176950

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 34

TOPIC TAGS: pulse analyzer, circuit design

ABSTRACT: This Author Certificate presents a pulse selector containing an RC ladder network. The device selects pulses with a width larger than a specified value and fixes pulses with delayed fronts. It contains a four-arm bridge of resistors and capacitors (see Fig. 1). One diagonal of the bridge holds an emitter-base junction of the transistor. The base of the transistor is connected with the cathode of a diode. The anode of the diode is connected to the mid-point of a resistance divider included in the input of the selector.

Fig. 1. 1-1 - input; 2-2 - output; 3, 4, 6 - bridge resistors; 5 - load resistor; 7 and 8 - resistors of the divider; 9 and 10 - bridge capacitors; 11 - transistor; 12 - diode.



Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 21Dec62

Card 1/1 *U.R.*

UDC: 621.374.33

L 41119-66 INT(S)/REC(K)-2

ACC NR: AT6011829

(A)

SOURCE CODE: UR/3176/65/000/001/0110/0119

AUTHOR: Karasik, Ye. Ya.; Lozhkomoyev, I. A.; Novikov, A. I.; Polyanskiy, S. V.

ORG: none

TITLE: Narrow-band telemetry system (1)

SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut kompleksnoy avtomatizatsii v neftyanoy i gazovoy promyshlennosti. Trudy, no. 1, 1965. Avtomatizatsiya tekhnologicheskikh protsessov (Automation of technological processes), 110-119.

TOPIC TAGS: telemetry system, telemetry technique, *NARROW BAND TRANSMISSION*

ABSTRACT: Developed by the Institute of Automatics and Telemechanics, AN SSSR, and tested by the Grozny Branch of the VNIKANeftegaz, a new telemetry system is described which: (a) uses a frequency band as narrow as 12 cps, (b) sends signals over a 6/0.4-kv electric-power distribution network, (c) uses no 280-cps carrier isolating choke coils, and (d) employs transmitters of only 1-3-w capacity. The signal transducer at the sending end and the pulse-time signal selector at the receiving end are based on a special bridge-type semiconductor exponential converter. The transmitter generates two pulses: a sync pulse and a parameter

Card 1/2

L 37563-56 555(K)-2/11/6

ACC NR: AT6012346

SOURCE CODE: UR/0000/66/000/000/0086/0097

AUTHOR: Kashirin, V. A.; Novikov, A. I.

ORG: none

TITLE: Possibilities for drastic narrowing of frequency band used in tele-systems

SOURCE: Nauchno-tehnicheskaya konferentsiya po sredstvam promyshlennoy telemekhaniki. Moscow, 1963. Promyshlennaya telemekhanika (Industrial telemechanics); materialy konferentsii. Moscow, Izd-vo Energiya, 1966, 86-97

TOPIC TAGS: remote control system, telemetry system, supervisory control system

ABSTRACT: The possibilities are theoretically explored of designing a narrow-band pulse-duration telemetry system that would contain an exponential threshold device; the latter is capable of accurately detecting variable-height easy-front pulses. The instrument accuracy of such a receiver is evaluated, as is the feasibility of operation in a very narrow band. The accuracy and efficiency of this new receiver are compared to those of a fixed-threshold receiver. It is claimed that at  $\gamma = 4-10$ , the accuracy of the new receiver can be "14-23 times higher" (?) than, and the required passband as narrow as 1/10 to 1/25 that of a fixed-threshold receiver. Here,  $\gamma$  is a "band factor" equal to  $\gamma = \Delta f T$ , where  $\Delta f$  is the effective passband of the input filter and T is the measurement period. Orig. art. has: 6 figures and 27 formulas.

SUB CODE: 09 / SUBM DATE: 08Jan66 / ORIG REF: 004

Card 1/1

ACC NR: AP7011360

SOURCE CODE: UR/0425/66/009/009/0022/0025

AUTHOR: Novikov, A. I.; Pirogova, T. A.

ORG: Tadzhik State University im. V. I. Lenin (Tadzhikskiy gosudarstvennyy universitet)

TITLE: Separation of tellurium and iodine by coprecipitation with iron hydroxide

SOURCE: AN TadzhSSR. Doklady, v. 9, no. 9, 1966, 22-25

TOPIC TAGS: iodine, tellurium compound, chemical separation, hydroxide, iron compound, chemical precipitation

SUB CODE: 07

ABSTRACT: The following procedure was used to separate iodine from irradiated  $\text{TeO}_2$ . The sample of  $\text{TeO}_2$  is dissolved in alkali, acidified with 2 M sulfuric acid, and oxidized with ammonium persulfate to convert  $\text{Te}^{\text{IV}}$  to  $\text{Te}^{\text{VI}}$  and  $\text{I}^-$  to  $\text{IO}_3^-$ .

Potassium hydroxide is then added to give a concentration of 2M with respect to KOH and the  $\text{K}_2\text{SO}_4$  crystals are separated by centrifuging. The solution is then raised to 5M KOH. Coprecipitation with iron hydroxide is carried out at pH 11-14. This precipitates the carrier with sorbed  $\text{Te}^{\text{VI}}$  while the  $\text{IO}_3^-$  remains in solution.

Card 1/2

09311241

ACC NR: AP7011360

This paper was presented by Academician AN Tadjh<sup>SSR</sup> K. T. Foroshin on  
25 January 1965. Orig. art. has: 3 figures. JPRS: 40,361

Card 2/2



ACC NR: AP6037027

(N)

SOURCE CODE: UR/0374/66/000/005/0693/0699

AUTHOR: Zolotov, Yu. V.; Novikov, A. G.

ORG: Laboratory of Polymer Physics Problems, Moscow State Pedagogical Institute im. V. I. Lenin (Problemnaya laboratoriya fiziki polimerov, Moskovskiy gosudarstvennyy pedagogicheskiy institut)

TITLE: Effect of temperature on the change of the stressed state of teflon seals

SOURCE: Mekhanika polimerov, no. 5, 1966, 693-699

TOPIC TAGS: vacuum seal, teflon, stress relaxation

ABSTRACT: In connection with the lack of methods for estimating the performance of teflon parts of sealing systems as a function of changes in the temperature of the ambient medium, the article analyzes problems involved in time-limited shifts from one temperature to another. It is assumed that the process of fast relaxation has already occurred and that the shift in temperature does not cause the stress relaxation processes to accelerate. Cases of both uniaxial and volume loading of teflon specimens are considered. Formulas are derived for (1) the decrease in stress during the temperature change in a uniaxially compressed teflon specimen, (2) lateral pressure on the teflon specimen during its compression in a closed volume, and (3) decrease in compressive stress of the teflon specimen in a closed volume during its cooling. It is shown that in order to reduce the decrease in stress with temperature,

Card 1/2

UDC: 678:01.53

ACC NR: AP6037027

it is necessary to try to obtain smaller geometrical dimensions of the polymer seal and to decrease the rigidity of the structure holding the seal. Orig. art. has: 6 figures and 7 formulas.

SUB CODE: 11/ SUBM DATE: 15Jan66/ ORIG REF: 005/ OTH REF: 001

Card 2/2

NOVIKOV, H. I.

2(2); 21(5) **PLANE I BOOK EXTRACTATION** 207/1900  
 Akademiy nauk SSSR. Komissiya po analiticheskomu khimii  
 Promyshlennye radioaktivnykh izotopov v analiticheskomu khimii  
 (Use of Radioactive Isotopes in Analytical Chemistry) Moscow  
 Izdatel'stvo Khimii, 1969. 365 p. (Series: Itogi Nauki i Tekhn.  
 Seriya Khim. 9 (12))  
 Zavtra clip inserted. 3,000 copies printed.

Repr. Ed.: I.F. Alimarin. Corresponding Member, USSR Academy  
 of Sciences; Ed. of Publishing House: A.N. Yermakov; Tech.  
 Ed.: T.V. Polyakova.

**FEATURES:** The book is intended for chemists and chemical  
 engineers concerned with work in analytical chemistry.

**CONTENTS:** The book is a collection of the principal papers  
 presented in Moscow at the Second Conference on the Use of  
 Radioactive Isotopes. The principal papers are arranged at the  
 end of the book. The book contains information on the use of  
 isotopes in the determination of equilibrium constants and solubility  
 constants, in the determination of the instability constants  
 of precipitates, determination of the instability constants

Card 1/10

of complex compounds, separation of rare earth metals, and  
 ion-exchange chromatography. No personalities are mentioned.  
 There are 361 references, 175 of which are Soviet, 33 German,  
 19 French, 8 Swedish, 2 Hungarian, and 2 Czech.

**TABLE OF CONTENTS:**

Use of Radioactive Isotopes (Cont.)	207/1900
Kol'tsef, I.M. Use of Radioactive Isotopes in Studying Aging of Crystalline Precipitates	98
Murakova, M.S., I.V. Malikov, I.G. Mulyarova, and B.V. Strizhkov. Study of Distribution of Lead and Bismuth Isotopes Between the Solution and the Crystals of Sodium Chloride	115
Murachevskiy, Yu. V., and A.I. Novikov. Copre- cipitation of Some Elements in Low Concen- trations with Metal Hydroxides	121
Murachevskiy, Yu. V., and V.M. Zaytsev. Study of the Coprecipitation of Gallium, Indium, and Thallium with Calcium Phosphate	135
Shvedev, V.F., and N.A. Pavlova. Coprecipitation of Strontium with Cerium Oxalate in Nitric Acid Medium	144

(11)

Card 2/10

NOVIKOV A I.

AUTHOR:

84  
Zolotov, Yu. A.

39-4-5-23/26

TITLE:

Conference on the Use of Radioactive Isotopes in Analytic Chemistry (Soveshchaniye po primeneniyu radioaktivnykh izotopov v analiticheskoy khimii)

PERIODICAL:

Atomnaya Energiya, 1958, Vol 4, Nr 5, pp 49-495 (USSR)

ABSTRACT:

In Moscow on December 2-4, 1957, a meeting on the use of radioactive isotopes in analytic chemistry was called by the Department of Chemistry of the Academy of Sciences (USSR) and the Committee on Analytic Chemistry of the Institute of Geochemistry and Analytic Chemistry imeni V. I. Vernadskiy. The meeting was attended by 450 members of various scientific research institutes, institutions of higher learning, and industrial enterprises, including 30 scientists from England, Bulgaria, the Chinese People's Republic, Poland, Rumania, Czechoslovakia, and the United States. The purpose of the meeting was to consider the work of the Soviet Union in 1) the use of radioactive isotopes for the development of new methods of analysis based on radioactivity, 2) developing the theoretical bases of analytic chemistry, 3) improving and testing the methods of separating and differentiating chemical elements, and 4) determining those physico-chemical values which have analytical

Card 1/5

89-4-5-23/26

Conference on the Use (Cont.)

significance. The 50 reports presented at this meeting will be published in a collection under the title "The Application of Radioactive Isotopes in Analytic Chemistry" (Primeneniye radioaktivnykh izotopov v analiticheskoy khimii). Following are the general areas of consideration and summaries of the reports given at the meeting:

I. Methods of analysis based on radioactivity:

I. Ye. Zimakov and G. S. Rozhavskiy (Gintsvetmet [State Institute of Nonferrous Metals]) - a new variant of the method for determining minute quantities in mixtures, called the method of "multi-radioactive dilution", which eliminates measurement of the specific activity of preparations - thereby simplifying analysis. I. P. Alimarin and G. H. Bilimovich (GEOKhI [Geochemical Institute of the Academy of Sciences (USSR)]) - a method for separating tantalum from titanium, zirconium, and niobium; and identifying tantalum by isotopic dilution. The precipitation of tantalum was induced by a new organic reagent, [ammonium benzeneselenate] (benzolseleninovokisliiy ammoniy). Radiometric titration (two reports; author not given) - a new method of volumetric analysis in which the point of equivalence is determined by measuring the activity of the solution. K. B. Yatsimirskiy and Ye. N. Roslyakova

Card 2/5

Conference on the Use (Cont.)

83-4-5-23-/26

(Ivanovo Institute of Chemical Technology) - the use of solutions of complex compounds (luteo salts) of  $\text{Co}^{60}$  for identifying large anions (phosphates, molybdates, and sulfates) by the radiometric titration method. I. M. Korenman and F. R. Sheyanova (Gor'kiy State University) - the possibility of using non-isotopic indicators in radiometric titration and other areas of analytic chemistry. A. I. Kulak (Moscow Institute of Chemical Technology imeni D. I. Mendeleev) - the determination of micro-admixtures ( $10^{-5}$  to  $10^{-6}$  %) of cobalt, copper, tellurium, arsenic, and antimony in ferrous oxides. A. A. Zhukhovitskiy and others (USSR) - development of a new rapid method of analysis based on the reflection (backward scattering) of beta-rays ( $\beta$ -rays). V. B. Gaydadyanov (GEOKhI) and L. I. Il'ina (Moscow Electric Light Factory) - determination of the properties of binary tantalum-niobium alloys by the  $\beta$ -ray-reflection method.

- II. Methods of identifying and separating elements: M. M. Senyavin (GEOKhI) - chromatographic analysis using radioactive isotopes; for example, research on separating infinitely small quantities of substances, quantitative analysis by isotopic dilution, etc. E. I. Il'yenko, B. P. Nikol'skiy and A. M. Trofimov (RIAN [Radium Institute of the Academy of Sciences (USSR)]) - the results of research on the adsorption of mercury in ion exchange resins.

Card 3/5

89-4-5-23/26

## Conference on the Use (Cont.)

L. V. Borisova (GEOKhI) - data on the distribution of rhenium and molybdenum between [anionite] EDE-10 and solutions of hydrochloric acid.

A. K. Lavrukina, K. Yun-Pin and V. Knobloch (GEOKhI) - a new complexly-forming substance [trioxylglutaric acid] (trioxylglutarovaya kislota), which is no less effective for identifying purposes than lactic acid used at present.

V. I. Kuznetsov and T. G. Akimova (GEOKhI) - separating of uranium from sea-water by the co-precipitation of [thiocyanate] (rodanidnyy) complexes of uranyl with the sedimentation of a large organic cation of hodanide - methyl violet. Some reports were related to the question of co-precipitation in inorganic collectors: [Yu. V. Morachevskiy and A. I. Kovikov (Leningrad State University) - "Coprecipitation of several elements of low concentration with metal hydroxides". I. Ye. Starik, F. Ye. Starik, and A. N. Apollon' . (RIAN) - "Carbonate method of separating micro-quantities of uranium from weighable amounts of iron". A. K. Lavrukina (GEOKhI) - examination of peculiarities in the behaviour of insignificant concentrations of radioactive isotopes in solutions, and experimental difficulties caused by the loss of elements adsorbed in filters and glass; the formation of radio-colloids, etc. V. P. Shvedov and L. M. Ivanova (RIAN) - methods of separating the isotopes  $\text{Mo}^{99}$ ,  $\text{Ag}^{111}$ ,  $\text{Cd}^{115}$  and  $\text{Ba}^{140}$  from complex mixtures.

Card 4/5

89-4-5-23/26

III. Some general problems of analytical chemistry: N. I. Izmaylov and V. S. Chernyy (Khar'kov State University) - research on the influence of the nature of solvents on the solubility of silver chlorides and cesium. The authors related the degree of solubility to the dielectric constant of the solvent. D. M. Ziv and I. A. Efros (RIAN) - a method for determining solubility by the "ultra-micro" method. N. P. Komar (Khar'kov State University) - (in connection with the above method), reported on the use of radiochemical measurements in combination with a determination of the molar coefficient of absorption for the study of complex ions in two-phase systems. I. M. Kol'tgof (Minnesota State University, USA) - new data characterizing the aging and development of crystalline sediments with the aid of radioactive isotopes. A. K. Lavrukhina and S. S. Rodin (GEOKhI) - the results of several experiments with the behaviour of element 87 (France) by co-precipitation with various carriers, extraction by solvents, etc. I. M. Irving (Oxford University, England) - study of the analytical properties of indium with the aid of radioactive isotopes. A. A. Grizik and N. I. Marunina (Giredmet [State Rare Metals Scientific Research Institute]) - the use of radioactive isotopes for control of production, for example, production of rare-earth metals.

Card 5/5

1. Conferences--Radioactive Isotopes--Moscow
2. Isotopes (Radioactive)  
--Applications



MORACHEVSKIY, Yu.V.; NOVIKOV, A.I.

Coprecipitation of various elements in small concentrations with  
metal hydroxides. Trudy khim. anal. 9:121-134 '58. (MIRA 11:11)

(Metals)

(Precipitation)

(Hydroxides)

NOVIKOV, A. I.

PHASE I BOOK EXPLOITATION SOV/7946

5(2)

Leningrad. Universitet  
 Voprosy khimii (Problems in Chemistry) [Leningrad] Izd-vo  
 Leningradskogo univ. 1959. 180 p. (Series Ita: Uchenyye  
 zapiski, no. 72) (Series: Leningrad. Universitet.  
 Khimicheskii fakul'tet. Uchenyye zapiski. Seriya khimicheskikh  
 nauk, vpp. 16) 1,600 copies printed.

Resp. Ed.: A. G. Morachevskiy; Ed.: Ye. V. Shchemeleva; Tech.  
 Ed.: S. D. Vodolagina.

PURPOSE: This book is intended for chemists in research and  
 industry as well as for teachers and students in chemical vases.

COVERAGE: This collection of eighteen articles on various branches  
 of chemistry, mainly physical and analytical, was compiled on the  
 basis of experimental research by the Chemistry Department of  
 Leningrad University. The articles deal chiefly with methods of  
 isolating rare earths in pure form and identifying them. No  
 personalities are mentioned. References accompany individual  
 articles.

TABLE OF CONTENTS:

Kheyfets, V. L., and B. S. Kravtsov. The Influence of Surface- Active Substances on the Discharge Kinetics of Some Cations	3
Krasikov, B. S., and Iz. M. Ryzhkov. Study of the Regularity of Copper Ion Discharge in the Presence of Triphenylamine	31
Kheyfets, V. L., and I. S. Ryzhkovskiy. Regularities of Joint Nickel and Copper Ion Discharges. The Influence of Temperature, Cathode Potential, and the Presence of Surface- Active Anions on the Distribution of Current Between Nickel and Hydrogen	40
Zakhar'yevskiy, M. S., and K. M. Vasilenko. The Applicability of Thin-Layered Electrodes to the Study of Redox Systems	40
Zakhar'yevskiy, M. S., and Ye. A. Krotikov. Study of Sodium- and Potassium-Mitate Melts by the Electromotive Force Method	57
Shkol'nikov, N. I. The Solubility of Gases in Colloidal Systems	64
Kozhevnikov, S. P. The Method of a "Triple Contact Preparation	67
Yefremov, G. V., and A. V. Gendharov. Coprecipitation of Thallium With Iron Hydroxide	94
Yefremov, G. V., and K. P. Stolyarov. Photometric Determina- tion of Thallium in the Ultraviolet Spectrum Range	99
Morachevskiy, Yu. V., and G. V. Yefremov. The Problem of Analytically Determining Thallium in Ores and Industrial Waste Products	105
Morachevskiy, Yu. V., and A. I. Novikov. Coprecipitation of Small Amounts of Strontium With Metal Hydroxides.	112
I. Coprecipitation of Strontium With Iron, Titanium, Aluminum and Beryllium Hydroxides	112
II. Coprecipitation of Small Amounts of Rare Earth Elements With Iron, Titanium, Aluminum and Beryllium Hydroxides	123
III. Coprecipitation of Cesium, Rubidium and Zirconium With Iron Oxide	129
Morachevskiy, Yu. V., and V. M. Zaytsev. Coprecipitation of Small Amount of Rare Earth Elements With Metal Hydroxides. IV. Coprecipitation of Europium with Iron- and Aluminum-Hydroxides	134

NOVIKOV, A.I.

Coprecipitation of small quantities of iodine and metal hydroxides.  
Dokl. Akad. Nauk Tadzh. SSR 2 no. 5:9-13 '59. (MIRA 13:12)

1. Tadzhikskiy gosudarstvennyy universitet imeni V.I. Lenina.  
Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR Adkhamovym.  
(Iodine) (Hydroxides)

5(4)

SOV/78-4-9-37/44

AUTHOR:

Novikov, A. I.

TITLE:

The Simultaneous Precipitation of Small Amounts of Chromate Ions With Aluminum Hydroxide

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 9, pp 2161-2167 (USSR)

ABSTRACT:

The reaction referred to in the title has not yet been completely clarified, in particular not for small amounts of chromate ions. Therefore the reaction was in the present case investigated while the pH of the medium and the concentrations were being changed. The indicator used was the radioactive isotope  $Cr^{51}$ . It was found 1) the simultaneous precipitation of chromate ions takes place by means of an adsorption on the aluminum hydroxide precipitate; 2) the amount of adsorbed chromate ions after the completion of the coagulation of aluminum hydroxide depends on the pH of the solution, the ammonium nitrate concentration, the hydroxide amount, and the chromate ion concentration; 3) the simultaneous precipitation of chromate ions is further influenced by the way in which the reagents mix and the duration of contact of solution and precipitate. Under experimental conditions the amount of simultaneously precipitated chromate ions with concentrations

Card 1/2

The Simultaneous Precipitation of Small Amounts of  
Chromate Ions With Aluminum Hydroxide

SOV/78-4-9-37/44

below  $10^{-3}$  gram ion/l ranged from 0 to 100% ; 4) with chromate ion concentrations exceeding  $10^{-5}$  g ion/l their simultaneous precipitation may be avoided by a pH of 10.1 - 9.4 and ammonium nitrate concentrations between 0.03 and 2 mol/l. The higher the pH of the solution and the concentration of ammonium nitrate, the more thorough is the separation of the chromate ions from aluminum hydroxide; 5) it is assumed that under certain conditions it would be possible to determine a change in the charges or compositions of adsorbed ions by means of curves for "carried-down ion portions - pH of the solution". There are 5 figures, 1 table, and 18 references, 12 of which are Soviet.

Card 2/2

MORACHEVSKIY, Yu.V.; NOVIKOV, A. I.

Coprecipitation of small amounts of certain elements with  
metal hydroxides. Report No.1: Coprecipitation of strontium  
with hydroxides of iron, titanium, aluminum and beryllium.  
Uch.sap.LGU no.272:112-122 '59. (MIRA 13:1)  
(Strontium) (Hydroxides)

MORACHEVSKIY, Yu.V.; NOVIKOV, A.I.

Coprecipitation of small amounts of certain elements with metal hydroxides. Report No.2: Coprecipitation of small amounts of rare earth elements with hydroxides of iron, titanium, aluminum and beryllium. Uch.zap.LGU no.272:123-128 '59. (MIRA 13:1)

(Rare earths) (Hydroxides)

MORACHEVSKIY, Yu.V.; NOVIKOV, A.I.

Coprecipitation of small amounts of certain elements with  
metal hydroxides. Report No.3: Coprecipitation of cesium,  
rhenium, gallium, ruthenium and zirconium with iron hydroxide.  
Uch.zap.LGU no.272:129-133 '59. (MIRA 13:1)  
(Iron hydroxide) (Metals)



NEVIKOV, A. I.  
AKADEMIYA NAUK

PHASE I BOOK EXPLOITATION 00V/0410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izdatel'stvo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubrov, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullajev, Candidate of Physics and Mathematics; D. M. Abdurajev, Doctor of Medical Sciences; U. A. Kaitov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ismailov; G. B. Ibrajeva; A. Ye. Kiy; Ye. M. Ismailov, Candidate of Physics and Mathematics; A. I. Nikol'skiy, Candidate of Medical Sciences; D. Nizhanov, Candidate of Physical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talantov,

Card 1/60

Transactions of the Tashkent (Cont.)

207/5410

Institute of Physics and Mathematics; Ya. E.A. Turanulov, Doctor of Biological Sciences. Ed.: R. I. Khaniyov; Tech. Ed.: A. G. Pashanova.

NOTE: The publication is intended for scientific workers and students employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

CONTENTS: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; qualitative methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

Page 2/20

Transactions of the Tashkent (Cont.)

SOV/5410

Instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gas relays, are described. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION  
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan

7

Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

9

Card 3/20

- Demidov, A. I., I. I. Gerasimov, I. M. Pranchuk, L. V. Sulina,  
V. A. Kuznetsov, V. A. Lashchok, A. S. Potanin, and A. E. Alek-  
sandrova. (Institut Gorn'ogo Khimii AN SSSR - Institut of  
Mineral Chemistry AS USSR). Investigation of the Mechanism of  
Exchange Reactions by the Isotopic Method 327
- Isupov, A. E. (Institut Gorn'ogo i Analiticheskoy Khimii  
AN SSSR - Institut of Geochemistry and  
Analytical Chemistry V. I. Vernadsky AS USSR). Methods  
of Geochemical Analysis and the Fields of Its Application 334
- Isupov, A. E., K. V. Zheltov, and P. P. Kuznetsov. (Insti-  
tut Fizikal'noy Khimii AN SSSR). Study of the Adsorption  
of Alkaline and Rare-Earth Elements on Black Earth by the  
Color Area Method 341
- Khramov, A. I. (Tashkent gosudarstvennyy universitet im.  
V. I. Lenin - Tashkent State University im. V. I. Lenin). Co-  
precipitation of Small Quantities of Various Cations and Anions  
with Metal Hydroxides 349
- Amelogova, N. I. (Radiyevyy institut im. V. G. Khlopina

Card 16/20