PAL'CHEVSKIY, Ye.I., professor (L'vov)

In memory of Professor V.F.Novitskii. Arkh.pat. 18 no.6:140 '56.

(NOVITSKII, VITOL'D, 1878-1941)

(NOVITSKII, VITOL'D, 1878-1941)

Paticher skiy Ye J.

LYUBOMUDHOV, A.P. (L'vov. ul.Fizkul'turnnya, d.24), PAL'CHEVSKIY, Ye.I. PANOV, V.I., PLASTUNOV, M.B., PRAYFEL'D, E.L.

Angioarchitectonics of the kidney following disease and its clinical significance. Nov.khir.arkh. no.2:3-8 Mr-Ap '58 (MIRA 11:6)

1. Kafedra anatomii (zav. - prof. A.P. Lyubomudrov), kafedra patologicheskoy anatomii (zav. prof. Ye.I. Pal'chevskiy) i klinika urologii (zav. - dots. M.B. Plastunov) L'vovskogo meditsinskogo instituta. (KIDNEYS--BLOOD SUPPLY)

EXC! NOTESTY, Years, respectively. N.E. competed by entropy of the law of the law of building state of the law.

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1. Chedicontal! Providing numbers of sathers a patrice of analysis of the law of the law.

2. Cekretar! Providing the law of the law

SHPERLING, I.D., kand. med. nauk (L'vov); PAL'CHEVSKIY, Ye.I., prof. nauchnyy rukovoditel.

Characteristics of odontogenic purulent and septic diseases. Stomatologiia 42 no.3:59-64 My-Je'63 (MIRA 17:1)

PALICHEVSKIY, Ye.I., prof.; SHEREMETA, N.A., kand. med. nauk

Work of the Lvov Province Society of Pathoanatomists in 1955-1956. Arkh.pat. 21 no.1:83-84 '59. (MIRA 12:1)

1. Predsedatel' L'vovskogo oblastnogo obshchestva patologoanatomov (for Pal'chevskiy). 2. Sekretar' L'vovskogo oblastnogo obshchestva patologoanatomov (for Shereneta).

(LVOV PROVINCE—PATHOANATOMICAL SOCIETIES)

PAL'GHEVSKIY, Ye.1.; ROZHDESTVENSKIY, L.M.

Clinical aspects and pathological anatomy of tumorous formations of the sacral region. Vop.neirokhir. 20 no.6:48-50 M-D'56.

(MERA 10:2)

1. Iz kafedry patologicheskoy anatomii i nervnykh bolezney
L'vovskogo meditainskogo instituta.

(SPIEE, neoplasss,
sacral, case report (Rus))

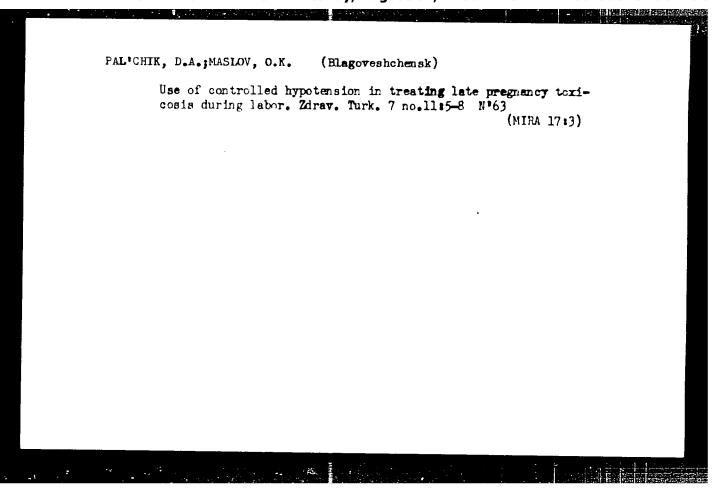
BERLOV, G. A. (L'vov); SMOL'YANIKOV, A. V., prof., nanchmyy rukovoditel';

PAL'CHEVSKIY, Ye. I., prof., nauchnyy rukovoditel'

Changes in the perivascular committee tissue of the hypertrophied heart. Arkh. pat. no.7:41-46 '61.' (MIRA 14:4)

(HEART—DISEASES)

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PAL'CHIK, D. A.

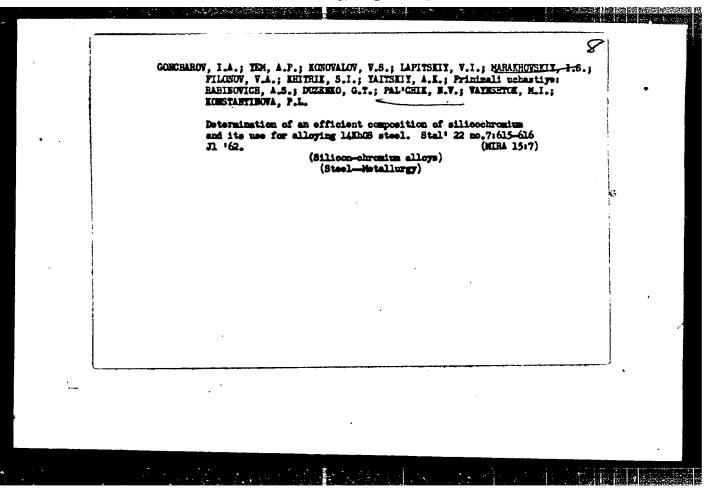
PALICHIK, D. A.: "Changes in the permeability of vascular tissue in late pregnancy toxicoses" (Clinical-experimental data). Ashkhabad, 1995. Turkmen State Medical inst imeni I. V. Stalin. (Dissertations for the Degree of Candidate of Medical Sciences)

SJ: Knizhnaya letopis', No. 52, 24 December, 195. Moscow.

MARKEVICH, S.V.; PAL'CHIK, M.V.

Effect of the energy of quanta of x-irradiation on the exidation of iron in solution and the optical activity of glucose. Dokl. AN BSSR 5 no. 2:65-69 F '61. (MIRA 14:2)

l. Institut fiziko-organicheskoy khimii AN BSSR. Predstavleno akademikom AN BSSR B.I. Stepanovym.
(X rays) (Glucose-Optical properties) (Iron)



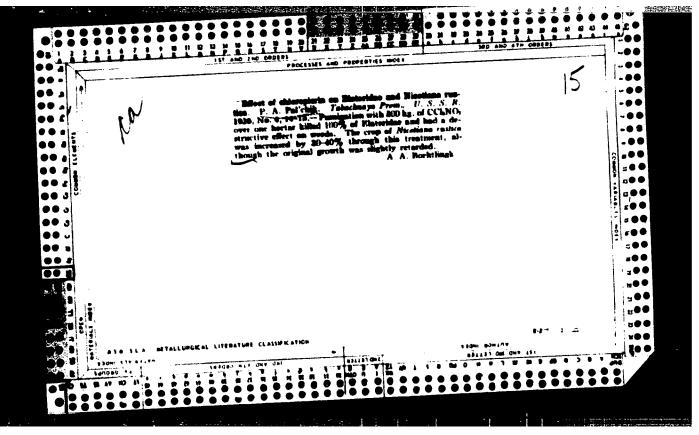
KSENZUK, F.A., inzh.; LOLa, V.N., inzh.; PaL'CHIK, M.V., inzh.

Investigating the heating and rolling of electrical steel slabs. Stal' 20 no.8:738-739 Ag '60.

(MIRA 13:7)

1. Zavod "Zaporozh'stal'."

(Rolling(Metalwork))



SLOBODYANIK, Ignat Yakovlevich [Slobodianyk, I.IA.], kand.tekhn.nauk;

PASHKOV, Igor' Aleksandrovich [Pashkov, I.O.], kand.tekhn.nauk;

CHUPRUNENKO, Yeksterina Vasil'yevna [Chuprunenko, IE.V.], kand.

tekhn.nauk; CHERKASOV, Nikolay Antonovich [Cherkasov, M.A.], kand.

tekhn.nauk; LYSINA, Nina Borisovna, insh.; RUBINOVICH, Esfir'

Abramovna, inzh.; PAL'CHIK, Petr Karpovich, insh.; LITVINENKO,

Melan'ya Dmitriyevna, insh.; SVARICHEVSKIY, Lyubomir Vladimirovich
[Svorychevs'kyi, L.V.], insh.; OSOVSKAYA, I. [Osovs'ka, I.], red.;

ZELMNKOVA, Ye. [Zelenkova, IE.], tekhn.red.

[Local binding materials based on new raw materials of the Ukraine]
Mistsevi v'iazhuchi na novii syrovyni Ukrainy. Za zahal'noiu red.

I.IA.Slobodianyka. Kyiv, Dersh.vyd-vo lit-ry z budivnytstva i
arkhit.URSR, 1960. 115 p.

(Ukraine-Binding materials)

20639

5 4700 2209, 1164, 1273

S/020/600136:006:019, 44 + B103/B203

5 3700

Shchukovskaya, L. L., Paltonik, R. I., and Petrov A. D.,

Corresponding Member AS USSR

TITLE:

AUTHOR:

Synthesis and reactions of abetylene siller nylrocariosa

PERIODICAL:

Doklady Akademii nauk SSSR, v. 136, no. 6, 1661, 1354, 456

TEXT: The authors continued their studies of the synthesis of acriticine silicon hydrocarbons (Ref. 1). From triethyl silyl acriving  $(C_2H_5)_3SiC \equiv CH$  they easily obtained the organizagnesism compound  $(C_2H_5)_3Si \equiv CMgBr$  which can react with carbonyl compounds. In the present study, the authors proceeded according to the enclosed a name. They synthetized alkyl- and alkyl-aryl-silyl moncacetylene hydrocarbons of the type  $-Si - C \equiv CH$ , further some derivatives of the type  $-Si - C \equiv CH$ , further some derivatives of the type  $-Si - C \equiv CH$  (where X = Br, COOH, and others), of the disabstitutes according in salary above Card 1/4

20639

Synthesis and reactions of ...

5,020,47, 4e .../ B103,B203

in the syntheses mentioned), as well as tialky, distinct since type  $R_2Si \rightarrow (C \equiv CH)_2$ . The medium used for the synthesis of non-constant 12 (Table 1) was dry tetranydrofuran, nos. 6-9 were produced in either. The authors noticed the reduced value of the CHEC vibration (at alternative the vibration spectra of monosubstituted silyl anetylenes which restained a triple bond in the a-position. According to their spinist, this effect is comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to a similar reduction in vinyl silanes [Ref. 2007 [Interest to the comparable to the compara

the stretching vibrations of the hydroxyl correspond to the lands here 64, and 2508 cm<sup>-1</sup>. The position of these bands characterized the strength of the hydrogen bonds and justifies the statement saying that this soil is somewhat stronger than saturated aliphatic acids (but weaker than itiasic acids). This conclusion was confirmed by a comparison of the dissociation constants of triethyl silyl ethinyl carboxylic acid and Abetic acid. The authors thank A. N. Lazarev for taking an interpreting the spectra. There are 1 table and 4 references: 3 Soviet-bloc.

Card 2/4

SHCHUKOVSKAYA, L.L.; PAL'CHIK, R.I.

Synthesis of trimethylsiloxyacetylene. Izv. AN SSSR. Ser. khim. no.8:1556 Ag '64. (MIRA 17:9)

1. Institut khimii silikatov im. I.V. Grebenshchikova AN SSSR.

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ZHDANOV, S.P.; FAL'CHIK, R.I.

Adsorption dehydration of alcohols by means of synthetic zeolites of the NaX type. Zhur. fiz. khim. 34 no.2 466-467 F 165.

(MIRA 18:4)

1. Institut khimii silikatov imeni Grebenshchikova AN SSSR.

L 25271-65 ENT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5001602

5/0062/64/000/012/2228/2230

AUTHOR: Shchukovskaya, L. L., Pal'chik, R. I.

TITLE: Synthesis of trialkylsilylalkoxyacetylenes and alpha-bromo-beta-trialkylsilylvinyl ethers

SOURCE: AN SSSR: Ozvestiya. Seriya khimlcheskaya, no. 12, 1964, 2228-2230

TOPIC TAGS: trialkylsilylalkoxyacetylene, silylalkoxyacetylene derivative, akylsilylvinyl ether, synthesis, acetylenic silane derivative

ABSTRACT: A new class of compounds, exemplified by trimethylsilylethoxyace-tylene, trimethylsilylbutoxyacetylene and triethylsilylethoxyacetylene was synthesized by the following reaction under mild conditions:

R3SiX + BrMgC = C-OR! - R3SiC = C-OR! + MgBrX

The corresponding halovinyl ethers R3SiCh-CX-OR! were obtained by reaction of the above Grignard complex with 20% NH4Cl solution. These -bromo- -trialkyl-silylvinyl ethers were hydrolysed, by dropwise addition to ice water, to the cor-

L 25271-65

ACCESSION NR: AP5001602

2

responding trialkylsilylacetates. Under the hydrolysis conditions (CH<sub>3</sub>)<sub>3</sub>SiCH<sub>2</sub>COOC<sub>2</sub>H<sub>5</sub> and (CH<sub>3</sub>)<sub>3</sub>SiCH<sub>2</sub>COOC<sub>4</sub>H<sub>9</sub> underwent rupture of the Si-C bond: 2(CH<sub>3</sub>)<sub>3</sub>SiCH<sub>2</sub>COOR: <sup>2HQH</sup>[(CH<sub>3</sub>)<sub>3</sub>Si]<sub>2</sub>O + 2CH<sub>3</sub>COOR. Physical properties and IR spectral data were obtained for the compounds. "Spectra were obtained and interpreted by A. N. Lazarov." Orig. art. has: 1 table and 3 equations.

ASSOCIATION: Institut khimii silikatov im. I. V. Grebenshchikova Akademii nauk SSSR (Institute of Silicate Chemistry Academy of Sciences SSSR)

SUBMITTED: 04May64

ENCL: 00

SUB CODE: OC, GC

NR REF SOV: 002

OTHER: 000

Card 2/2

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

1 39437-65 EPF(c)/EPR/EW	P(j)/EWT(n) Po	-4/Pr-4/Ps-4 RP	RH/WY	
ACCESSION NR: AP5005894		8/002	0/65/160/003/0621/	062U
AUTHORS: Shchukovskaya, L. member AN SSSR) (Deceased)	L.; Pal'chik,	R. I.; Petrov, A	. D./(Correspondin	g 34
TITLE: The order of adding	trialkysilanes	to unsaturated al	cohola	33
Source: AN SSSR. Doklady,	4.3. 4.10. 25 (13) 12 (13) 13 (14) 13 (14) 14 (14)			В
TOPIC TACS: silane, alcoho				
ABSTRACT: The authors have limethylethynyl carbonyl an tions according to the foll	demonstrated the demons	omethylethynyl car	may be added to <u>bony</u> l in two direc	34
СИ,СНОЙС≡С	H 4- HSIR, H.PICI,	CH, CHOLIC—SIR, (I)		
The IR spectra are given for these two directions. In exalence oscillations of CH and of CH=CH at about 3000 and 1/2	r the two pairs sch pair, both 1	CH.CHOHCH=CHSIR. ( of alcohol isomers somers are identif	corresponding to ied by bands of	18

L 39437-65

ACCESSION NR: AP5005894

groups CH<sub>3</sub> and C<sub>2</sub>H<sub>5</sub>. The frequency of the bands of associated hydroxides (higher in the tertiary alcohols than in the secondary) is shifted toward the long waves in isomers containing the OH in the 5-position toward silicon. This shift is greater than in isomers with OH in the 5-position. The position of C=C-oscillation in spectra of the isomers changes from 1620-1630 cm<sup>-1</sup> for the groups C=CH<sub>2</sub>. The structure of the adducts obtained was verified by reverse synthesis. The various syntheses and products are described briefly, with summaries of their IR spectra, properties, and dimensions. Orig. art. has: 2 figures.

ASSOCIATION: Institut khimil silikatov im. 2. V. Grebenshchikova Akademii nauk SSSR (Institute of the Chemistry of Silicates Academy of Sciences SSSR)

SUBMITTED: 21May64

ENCL: 00

SUB CODE: OC

NO REF SOV: COL

OTHER: OOL

Card 2/2<sub>1/2</sub>

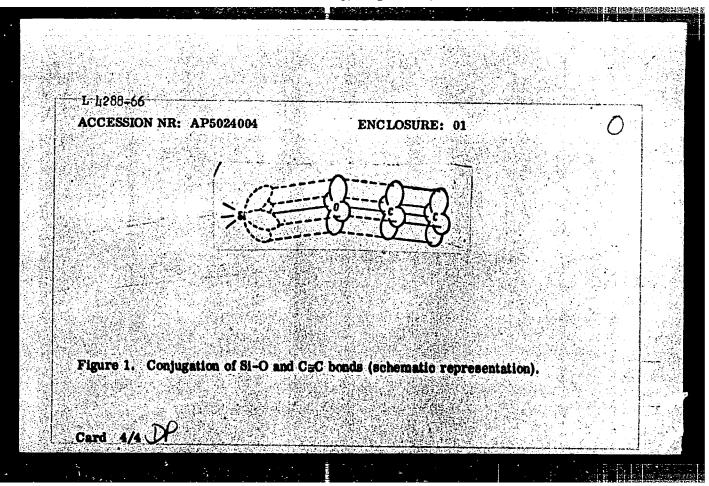
	a)/EFF(c)/EWP.(j)/T			
ACCESSION NR:	AP5024004	UR/0020/65/164。 洲ぶ	/002/0357/0 <b>35</b> 0 44¦≤ <sup>3</sup>	3,9
AUTHOR: Shehuk	ovskaya, L. L.; Pal'c	hik, R. I.; Lazarev,	<u>A. N.</u>	4/2
TITLE: Synthesis	and reactions of trime	thylsilylketene trim	ethylsiloxyacetylene	
SOURCE: AN SSS	R. Doklady, v. 164, n	2, 1965, 357-360	1	
TOPIC TAGS: org	anosilicon compound,	chemical bonding, c	onjugate bond system	n
ABSTRACT: Trin	nethylsilylalkoxyacetyl	enes decompose at 1	20 - 130C to yield th	e cor-
responding olefin :	and trimethylsilylketen cate that the ketene for	e (CH <sub>3</sub> ) <sub>3</sub> SiCH=C=O.	The NMR and IR sprizes into the corre	ectra sponding
	y via an intermediate			
	TH			
		C=C=O		
	D CI			in the second of
	RSI	C=C=0 SiR <sub>0</sub> , D=C=C		

1/14268-66 ACCESSION N	R* A 25024004		And the second s
	wing tautomeric equilibrium exist		
	R <sub>s</sub> SiHC=C=0 ⊋HC	(II) "	
IR spectra of corded, and t	the equilibrium mixture (CH <sub>2</sub> ) <sub>3</sub> SiO ne conjugation of the Si-O and C=O	CH=C=O == (CH <sub>3</sub> )SiO-C bonds was deduced (se the compound reacted	J=CH were re- e Fig. 1 of the in the ketene form
IR spectra of corded, and the Enclosure). as follows:	n the additions reactions studied,	the compound reacted	in the Record form
Enclosure).	n the additions reactions studied,	CH=C=O: == (CH <sub>3</sub> )SiO-C bonds was deduced (see the compound reacted  1,0 (CH <sub>8</sub> ) <sub>8</sub> SiCH <sub>8</sub> COOH (CH <sub>8</sub> ) <sub>8</sub> SiCH <sub>8</sub> COOR (CH <sub>8</sub> ) <sub>8</sub> SiCH <sub>8</sub> COOSiR <sub>8</sub> (CH <sub>8</sub> ) <sub>8</sub> SiCH <sub>8</sub> COONHPh	in the Record form

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L 4289-66 ACCESSION NR:	A 'D5024 004				
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2 figures and 1 t	nk A. S. Khachatu able.	170V for taking the	e nmk spectra.	" Orig. art.	nas:
ASSOCIATION	Institut khimii sili	ikatov im. I. V. C	Grebeshchikova,	Akademii nau	k SSSR
110000111111111					
(Institute of Silic	este Chemistry, A	cademy of Science	es,SSSR)		
(Institute of Silico SUBMITTED: 10	ete Chemistry, A	cademy of Science	es,SSSR)	CODE: OC	,60
(Institute of Silic	sate Chemistry, A 6Feb65	cademy of Science	on Sul	3 CODE: OC,	, <b>6</b> C
(Institute of Silic SUBMITTED: 10	sate Chemistry, A 6Feb65	cademy of Science ENCL:	on Sul	3 CODE: OC,	,60
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# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



SPORUKOVSKAV. I.I., PALITHER, R.I.

Order of addition of primity in the property alcohol. Thus, ob. knim. 35 no.6 1122 Je 165. (MIEA 18:6)

1. Institut mysokomolexulyarnyth soyedinenty AN SSE.

SHCHUKOVSKAYA, L.L.; PAL'CHIK, R.I.

Synthesis of trialkylsilylalkoxyacetylenes and α =bromo-β=trialkylsilylvinyl ethers. Izv. AN SSSR Ser. khim. no.12:2228=2230 D \*64 (MIRA 18:1)

l. Institut khimii silikatov imeni I.V. Grebenshchikova AN SSSR.

KUPORITSKIY, S.; PAL'CHIK, V.

Youth helps agriculture. NTO 3 n.2:54-55 F 161.

(MIRA 14:3)

1. Zamestitel' predsedatelya Moldavskogo respublikanskogo praveleniya Nauchno-tekhnicheskogo obshchestva sel'skogo i lesnogo khozyaystva Kishinev (for Kuporitskiy). 2. Predsedatel' soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva sel'skokhozyaystvenogo instituta imeni M.V. Frunze, Kishinev (for Pal'chik).

(Moldavia—Farm mechanization)

PERLI, S. B.; EDEL'MAN, I. Ye.; PAL'CHIK, Yu. R.

Breaking in an electrostatic filter for automatic shaft kilms. TSement 29 no.2:18-19 Mr-Ap '63. (MIRA 16:4)

1. Yuzhgiprotsement.

(Dust collectors) (Cement plants)

ACCESSION NR: AT4001237

**S/3031/63/000/035/0101/0107** 

AUTHORS: Belyayev, A. I.; Firsanova, L. A.; Vol'fson, G. Ye.; Lazarev, G. I.; Pal'chikov, A. I.

TITLE: Obtaining ultrapure aluminum by distillation through subfluoride in a pilot unit

SOURCE: Gosudarstvenny\*y institut tsvetny\*kh metallov. Sbornik nauchny\*kh trudov. Moscow, no. 35, 1963, 101-107

TOPIC TAGS: ultrapure aluminum, ultrapure aluminum production, ultrahigh purity metal, ultrahigh purity metal production, ultrahigh purity aluminum, ultrahigh purity aluminum production

ABSTRACT: Apparatus for the production of ultrapure aluminum by distillation via the hypofluoride, developed at the Institut tsvetny\*kh metallov im. M. I. Kalinina (Institute of Nonferrous Metals) by A. I. Belyayev and L. A. Firsanova (Trudy Mintsvetmetzoloto im. M. I. Kalinina, no. 33, 1960) is described briefly. In this method the purified aluminum is brought in contact with vapor-

Card 1/12

ACCESSION NR: AT4001237

ized aluminum fluoride at 1050° and residual pressure  $10^{-1}$ — $10^{-2}$  mm Hg. The produced aluminum hypofluoride is decomposed into pure aluminum and aluminum fluoride which is returned to the cycle. During the course of the trials of the aluminum distillation technology, conditions were found under which large aluminum ingots of specified shape can be produced in the condenser, with simultaneous production of the return condensate (Al + AlF<sub>3</sub> with small amount of disperse aluminum). Tests with the pilot plant have shown the possibility of producing by this method superpure aluminum (99.999%) in amounts up to 1 kg a day. The aluminum obtained in the pilot plant was found suitable for production of semiconductor rectifiers, since the siluminum produced from it has less than 0.0001% Fe, 0.0006% Mg, and 0.0001% Cu. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Gosudarstvenny\*y institut tsvetny\*kh metallov (State Institute of Nonferrous Metals)

Card 2/12

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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PAD CHIKOV, D. A.

"Steam treatment for paraphlebrus," In symposiums Naucus-prekt. sebat, vojen-vet. slocky, Moscow, 1946, p. 14-16

SO: U-3850, 16 June 1953, (Letojis 'Zhurmal 'myko Statey, No. 3, 1944).

KRICHKO, A.A.; MALYAVINURIY, D.V.; ELIMOROVA, A.I.; PALICHIKOV, G.F.; SKOVROLEK, B.K.; STEPURI, D.I.

1. Institut geryaanikh isk qaya ykn, Grooneftekninzavedy i Vsesoyuznyy matchao-ia let vatatikkly institut pa pererak ike neftl i gaza i patuateniya iaku atvonnega zhidkoza topliva.

KRICHKO, A.A.; MEZHLUMOVA, A.I.; PAL'CHIKOV, G.F.; TITOVA, T.A.; Prinimeli uchastiye: CHERKASOVA, V.F.; RAVIKOVICH, T.M.

1. Groznenskiy kreking-zavod, Groznenskoye upravleniye neftepere-rabatyvayushchey i neftekhimicheskoy promyshlennosti i Institut goryuchikh iskopayemykh.

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1 10531-66 EWT(m)/T WE	
ACC NI. A76003167 JUSS SOURCE CODE: UR/0328/64/000/012/0015/0020	]
Pal'chikov, G. P.; Skvortsov, D. V. ad. S. Miselevich, D. L.; Miselevich, D. L.;	
ORG: IGI (Administration of Petroleum Conversion and Chemical Industry, Groznyy (Upravleniye n/pererabatyvayushchey i khimicheskoy promyshlennosti); Groznyy Cracking Plant, Groznyy (Groznenskly kreking-zavod)	
TITIE: Hydrogenation of petroleum products in a fluidized solids catalyst layer	
SOURCE: Neftepererabotka i neftekhimiya, no. 12, 1964, 15-20	
TOPIC TAGS: hydrogenation, catalysis, naphthalene, petroleum refining 44,55° ABSTRACT: Aromatized fractions with 83-91% aromatics and an average molecular weight of 165.5-169.0 (boiling range 200-300°) were extracted	
with aqueous pyridine from a catalytic cracking/gas oil and subjected to	
hydrogenation on an Al-Co-Mo oxides catalyst in a fluidized hed. The	( 
optimum conditions for the production of naphthalene by this process comprised 20 atm pressure, ~550° temperature, hourly space velocity of 0.8-	
U.S E[/I.Br, and a supply of hydrogenating gas (80% H, and 20% CH )	ı
amounting to 1-1.5 m3/kg raw material. Under these conditions, a 50% conversion of the raw material to products boiling below 2300 was obtained	
and the yield of maphthalene was 12-14% by weight in a single hydro- genation stage. The authors are grateful to v. S. Al'tahuler and G. P. Sechenov	
for their beln in this work. One are grateful to v. S. Al'tshuler and G. P. Sechenov	
for their help in this work. Orig. art. has: 3 figures, 3 formulas, and 3 tables.	
SUB CODE: 21, 07 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 006 Cord 1/1 (66)	

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

the state of the s	
L 30247-66 EWI(m)/T WE	
ACC NR: AP6013820 (A)	SOURCE CODE: UR/0318/65/000/012/0003/0005
AUTHOR: Pal'chikov. G. F.; Krichko, A. A.; Titova, T.	Mezhlumova, A. I.; Kaganer, G. S.; Stepuro, S. I.;
ORG: Grozneftekhimzavody Asof Mineral Fuels, AN SSSR ()	ssociation (Obuyedineniye Grozneftekhimzavody); Institute Institut goryuchikh iskopayemykh, AN SSSR)
TITLE: Processing of cataly	ytic gas oils by extraction with pyridine and hydrogenation
SOURCE: Neftepererabotka i	neftekhimiya, no. 12, 1965, 3-5
TOPIC TAGS: pyridine, solve lene, petroleum product, gas	ent extraction, gas oil fraction, hydrogenation, naphtha- soline
of the hydrogenation of the carried out in a continuous with a pulsed packing of per /hr. The degree of separati bicyclic hydrocarbons, 95%. ly as the feed stock for the	pes the results of an extractive separation of catalytic is sulfur feed stock by means of wet pyridine and the results extracts. The extractive separation of the gas oils was unit with a vertical countercurrent extractor provided efforated metal discs. The output of the unit was 1 liter/on of aromatic hydrocarbons from gas oil was 70-75%; for The extract from the low-sulfur gas oil was used directly hydrogenation. It is concluded that catalytic gas oils see southern and eastern regions of the Soviet Union can be
	UDC: 665.5.521.4.66.061.5

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

a stock (18% yield)	for the production	on of carbon bl	lity diesel oil (53-66 ack and aromatized gas study. Orig. art. has	oline! N. F.
SUB CODE: 1,07/	SUBM DATE	: None /	ORIG REF: 004	
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* ************************************				
Se 2/2 C C				

AUTHOR: Pal'chikov, G. F.

TITLE: The Production of Paraffin Wax from Paraffinic Distillat-

es by Extraction with Aqueous Pyridine

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 4,

pp. 31-35

TEXT: In the older refineries wax is separated from medium viscosity distillate lubricating oils by filtration at reduced temperature. In modern refineries the oils are de-waxed with selective solvents the action of which mainly depends on reduced sollubility of solid hydrocarbons at low temperatures. Capital expenditure on refrigerating plant is high and so are running costs, particularly when producing soft paraffin waxes. Therefore, new methods have been developed for producing soft paraffin waxes using crystalline carbamide in combination with organic solvents. There are difficulties in this process too. Isoparaffinic hydrocarbons have a number of potential applications but little has been published on methods of producing them from light and medium distillates. It is, therefore, of considerable interest to develop methods of producing low melting point soft paraffin waxes Card 174

The Production of Paraffin Wax from Paraffinic Distillates by Extraction with Aqueous Pyridine

and also is Oparaffin from distillate fractions. This article describes tests on the production of soft and liquid paraffins by means of aqueous pyridine. It was shown that pyridine containing from 2.5 to 5% of water is a poor solvent of paraffinic hydrocarbons, not only at negative temperatures but at moderately low positive temperatures. When aqueous pyridine is mixed with paraffinic feed at room temperatures two clearly defined layers are formed, one the raffinate containing paraffinic hydrocarbons of normal and isostructure and an extract layer including the remainder of the feeds. On the basis of laboratory work paraffin wax was separated from the distillate feed by an extraction process on the pilot plant of the duosol process at the Groznen-skiy neftemaslozavod (Groznyy oil refinery). Six of the available heat extraction sections were used and the plant process is briefly described. The pyridine was regenerated from the extract solution in an evaporator heated with low pressure steam. The tests were made on two kinds of feed, filtrate boiling in the Card 2/4

The Production of Paraffin Wax from Paraffinic Distillates by Extraction with Aqueous Pyridine

range of 270 to 470°C produced by separating solid paraffin wax from cooled paraffinic distillate and on a fraction with a boiling range of 270-350°C prepared by distillation at atmospheric pressure of the filtrate which contained a considerable amount of low melting point and isoparaffinic hydrocarbons. The solvent to feed ratio was 2.39:1, the extraction temperature was 21-22°C, the extraction pressure ranged from 5 to 4 atmospheres, and the percolation temperature was 25-30°C. During the extraction process the water contained in the pyridine is mainly concentrated in the extract phase, the solvent raffinate phase containing only negligible amounts of water. During the extraction process because of the differing solubility of hydrocarbons are redistributed between the raffinate and extract phases so that whereas at the first stage of extraction the aromatic hydrocarbons form 18.7% weight by the sixth stage of extraction they form only 2.24% weight. The properties of the paraffin wax and de-waxed product produced on the pilot plant were as follows:

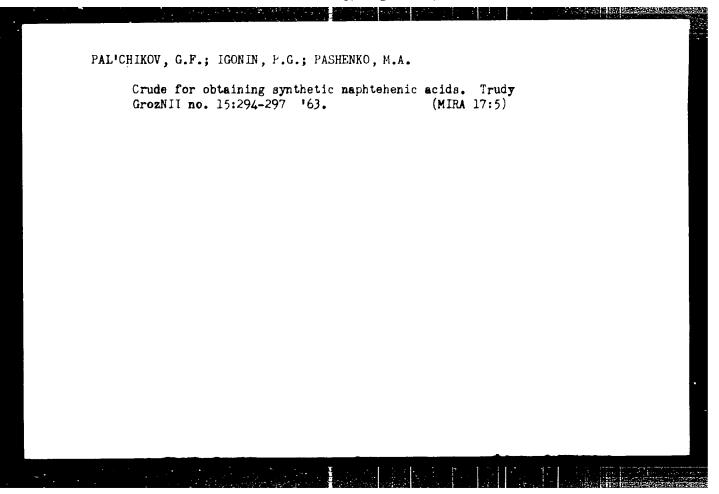
Card 3/4

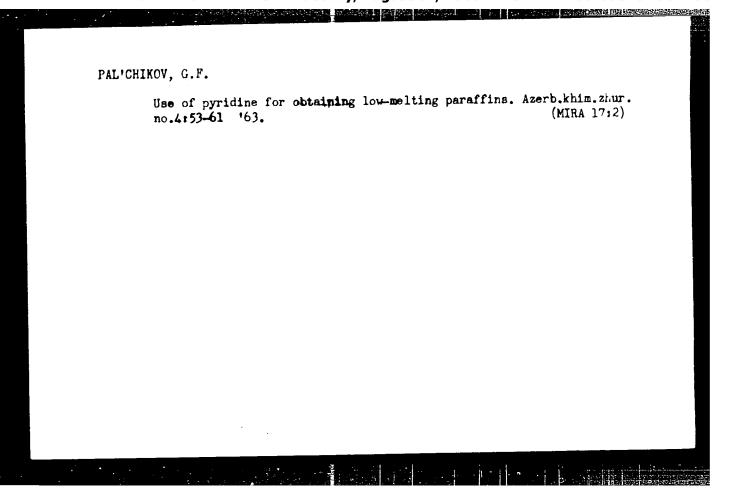
The Production of Paraffin Wax from Paraffinic Distillates by Extraction with Aqueous Pyridine

Property	<u>Wax</u>	De-waxed product
Density	0.813	0.886
Boiling range °C	20.2	_
lower	2 <b>83</b> 3 <b>45</b>	- -
upper Setting point °C	+11	-1
Kinematic viscosity 50°C	4.06	-
centistokes Aromatic hydrocarbon content %	2.03	-
Refractive index	1.4500	1.486

The refined paraffins contained no aromatic or naphthenic hydrocarbons and paraffins produced in this way could be used as raw material in the manufacture of synthetic fatty acids which are used in various branches of industry. There are 1 figure, 3 tables and 4 Soviet references.

ASSOCIATION: Sovnarkhoz ChiASR Card 4/4





A STATE OF S KRICHKO, A.A.; LOZOVOY, A.V.; MEZHLUMOVA, A.I.; PAL'CHIKOV, G.F.; RAVIKO-VICH, T.M.; TITOVA, T.A.; CHERKASOVA, V.F.; Prinimali uchastiye: MUSELEVICH, D.L.; SOVETOVA, L.S.; TSITRON, I.L. Obtaining naphthalene from straight-run fractions of the Anastasiyevska petroleum. Nefteper. i neftekhim. no.10:3-8 '63. (MIRA 17:2) 1. Institut goryuchikh iskopayemykh AN SSSR, Groznenskiy krekingzavod i Upravleniye neftepererabatyvayushchey i neftekhimicheskoy promyshlennosti.

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

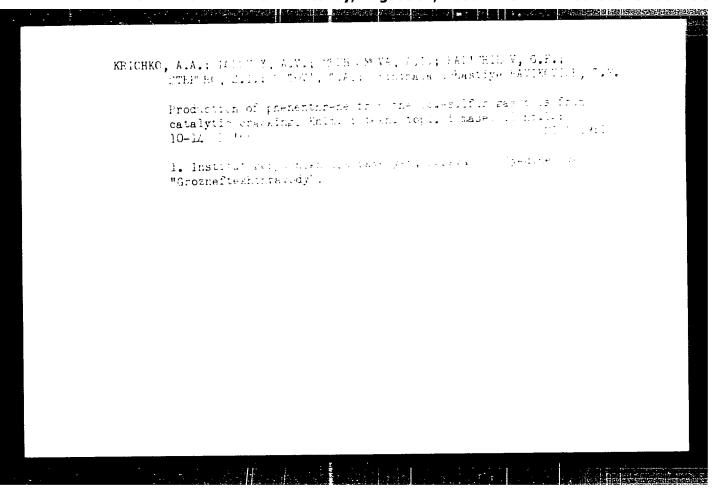
DEMBOVSKAYA, Ye.A.; KONYASHINA, R.A.; MEZHLUMOVA, A.I.; PAL\*CHIKOV, G.F.

Analyzing the chemical composition of the extract of gas oils from catalytic cracking. Khim, i tekh.topl, i masel 10 no.ll; 16-19 N \*65.

(MIRA 19:1)

1. Institut goryuchikh iskopayemykh, Moskva.

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

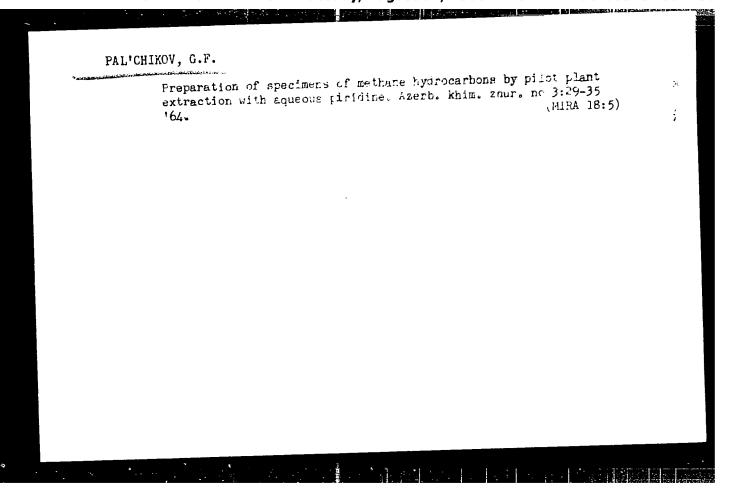


KRICHKO, A.A.; LOZOVCY, A.V.; MEZHLUMOVA, A.I.; MUSELEVICH, D.L., PAL'CHIKOV, G.F.; SKYOPISOV, D.V.

THE PERSON OF THE PROPERTY OF THE

Hydrogenation of petroleum products in the fluidized bed of a catalyst. Nefteper. i neftekhim. no.12:15-20 '64. (MIRA 18:2)

1. Institut goryuchikh iskopayemykh \*N SSSR, Upravleniye neftepererabatyvayushchey i khimicheskoy promyshlennosti, g. Grozny;, 1 Groznenskiy kreking-zavod.



sov/65-59-4-8/14

AUTHORS: Minasyan, T.S., Pal'chikov, G.F., Bolotov, L.T.,

Ovsyannikov, P.V., Shumovskiy, V.G., Afanasenko, M.M.,

Rusakov, A.P. and Karpenko, T.G.

TITLE: Investigations in the Groznyy Plants on the Catalytic Purification of Middle Distillates Obtained During

Thermo-Cracking Processes (Iz opyta raboty groznenskikh zavodov po kataliticheskoy ochistke srednikh distillyatov

termicheskogo krekinga)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4, pp 44-48 (USSR)

ABSTRACT: The octane numbers of gasolines can be improved by catalytic cracking of the kerosine-gas-oil fractions,

obtained during fractional distillation. This,

however, seems unsatisfactory because these fractions are high quality starting materials for jet and diesel fuels

etc. The middle fractions, obtained during thermal cracking, used as diesel fuels, contain a high quantity of unsaturated hydrocarbons and have a low cetane number. The quality of diesel fuels can be improved by using

aluminium silicate catalysts and enriched secondary

Card 1/3 distillates. In this way, the consumption of unsaturated

sov/65-59-4-8/14

Investigations in the Grozmyy Plants on the Catalytic Purification of Middle Distillates Obtained During Thermo-Cracking Processes

compounds is decreased and the cetane number of the diesel fuels increased, whilst maintaining the standards required by GOST for diesel fuels. Tests were carried out on substances obtained after second distillation of the broad fraction and also by using mixtures of these substances and the kerosine fraction obtained during thermal cracking. The properties of the tested materials are given in table 1 and the process conditions in table 2. Some high octane gasoline was obtained during this process. This was purified, washed and reacted with an 18 to 20% NaOH solution. After stabilisation it was purified again, treated with a 15 to 18% NaOH solution and washed. The stabilised pure gasoline had an octane number of 76. A catalyst of decreased activity (29 to 30) was used during the enriching process. The properties of the aluminium silicate catalysts are given (table 3). Table 4 gives the hydrocarbon composition of the gas. The catalytic cracking of middle fractions can

Card 2/3

sov/65-59-4-8/14

Investigations in the Grozhyy Plants on the Catalytic Purification of Middle Distillates Obtained During Thermo-Cracking Processes

be carried out on existing cracking plants and it is pointed out that the deposition of coke does not exceed the allowed limits. There are 4 tables.

Card 3/3

DROWIN, A.P.; ZAMANOV, V.V.; KRICHKO, A.A.; LOZOVOY, A.V.; MAKARIYKV, S.V.; MEZHLUMOVA. A.I.; PALICHIKOV, G.F.; STEPURO, S.I.

Combined arrangement for the use of thermal-cracking kerosine. Khim. i tekh. topl. i masel 9 no.6:12-24 Je\*64 (MIRA 17:7)

1. Giprogrozneft, , Institut goryuchikh iskopayemykh AN SSSR i Grozneftekhimzavedy.

PAL®CHIKOV, G.F.; MEZHLUMOVA, A.I.; KRICHKO, A.A.; KAGANER, G.S.; STEPURO, S.I.; BROVENKO, A.V.

Extraction of aromatic hydrocarbons with aqueous pyridine from intermediate petroleum fractions and catalytic gas oils. Khim.i (MIRA 15:12) tekh.topl. i masel 7 no.11:19-25 N 162.

1. Sovet narodnogo khozyzystva Checkeno-Ingushakoy ASSR. (Petroleum products) (Pyridine) (Hydrocarbons)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012388

\$/065/62/000/011/001/006 E075/E436

THE PROPERTY OF THE PROPERTY O

AUTHORS: Pal'chikov, G.F., Mezhlumova, A.I., Krichko, A.A.,

Kaganer, G.S., Stepuro, S.I., Brovenko, A.V.

TITLE: Extraction of aromatic hydrocarbons from middle

petroleum fractions and catalytic gas oils with

aqueous pyridine

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.11, 1962,

19-25

TEXT: Following the laboratory work reported previously (Khim. i tekhnol. topliv i masel, no.4, 1961) trial batches of aromatic extracts (400 to 500 kg) were obtained on a pilot plant scale from a catalytic gas oil and kerosene - gas oil fractions from Anastasiyevka crude. The extraction was carried out using aqueous solution of technical pyridine (boiling point range 114 to 134°C). The feed saturated with pyridine vapour meets the pyridine solution in the extractor. Countercurrent extraction takes place, the raffinate and the extract solutions leaving the opposite ends of the extractor. For the extraction of the kerosene - gas oil fraction the raffinate contained 30% by Card 1/2

Extraction of aromatic ...

S/065/62/000/011/001/006 E075/E436

volume of pyridine (water free) and the extract solution - 80.7% pyridine, 10% water and 9.3% extract. The extraction was conducted at 15°C. The extract constituted 32 to 35% of the feed and contained about 80% aromatic hydrocarbons. The extract with 50% of the aromatic hydrocarbons was obtained with the yield of 70%. The extracts were subjected to high temperature hydrogenation. For the extract from the catalytic gas oils the yield of naphthalene obtained by the hydrogenation was 30%. For the kerosene-gas oil fraction about 20% yield of naphthalene was obtained and 40% of a solvent containing 95% of aromatic hydrocarbons. There are 1 figure and 7 tables.

ASSOCIATION: SNKh Checheno-Ingushsk. ASSR

Card 2/2

\$/081/61/000/021/070/094 B138/B101

AUTHORS:

Bolotov, L. T., Shumovskiy, V. G., Ovsyannikov, P. V.,

Pal'chikov, G. F., Minasyan, T. S., Afanasenko, M. M., Rusakov, A. P., Burlakov, A. G., Karpenko, T. G.

TITLE:

Pilot run for the commercial processing of a secondary raw

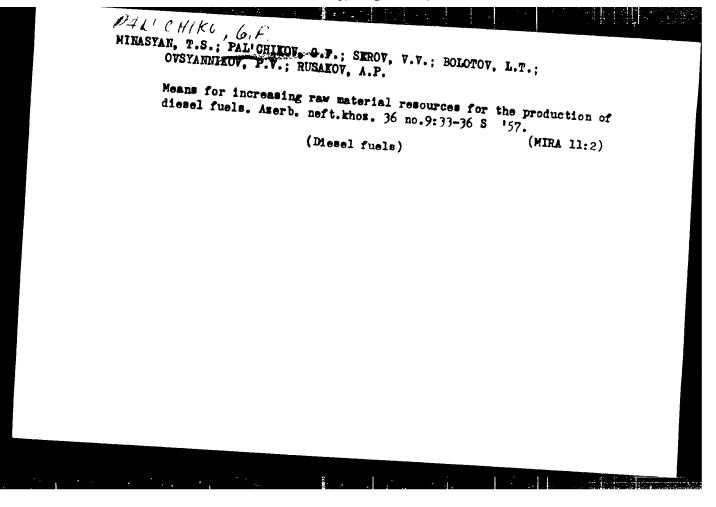
material on a catalytic cracking unit

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 401 - 402,

abstract 21M82 ([Tr.] Groznensk. neft. in-t. sb. 23, 1960,

TEXT: With the aim of increasing supplies of quality high-speed diesel fuels, experiments have been conducted, in commercial conditions, for the refining of the medium fractions of the thermal cracking process by redistribution of the hydrogen on the aluminosilicate catalyst. The characteristics of the starting material and of the end product are enumerated. It is said that it would be possible to use this method for the production of the components of high-octane automobile gasolines and low pour-point high-speed diesel fuels. Data are given for the production Card 1/2



s/081/61/000/021/068/094 B138/B101

Bashilov, A. A. Pal'chikov, G. F., Zhukov, I. S., AUTHORS:

Minasyan, T. S., Rusakev, A. P.

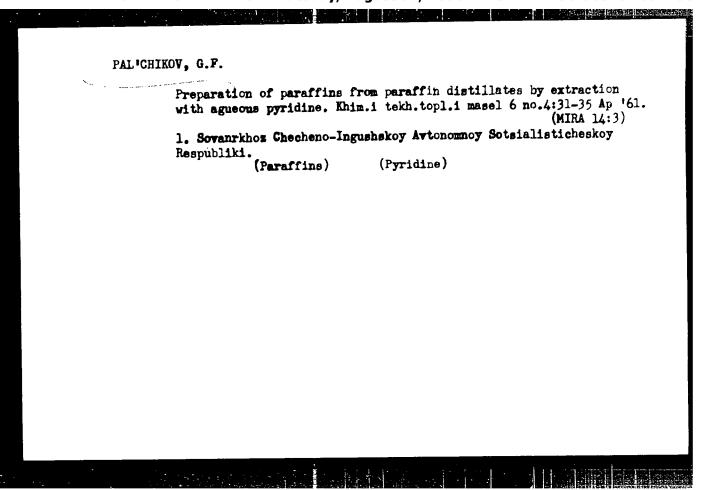
Separate production of gasoline and kerosene distillates in TITLE:

thermal cracking plant

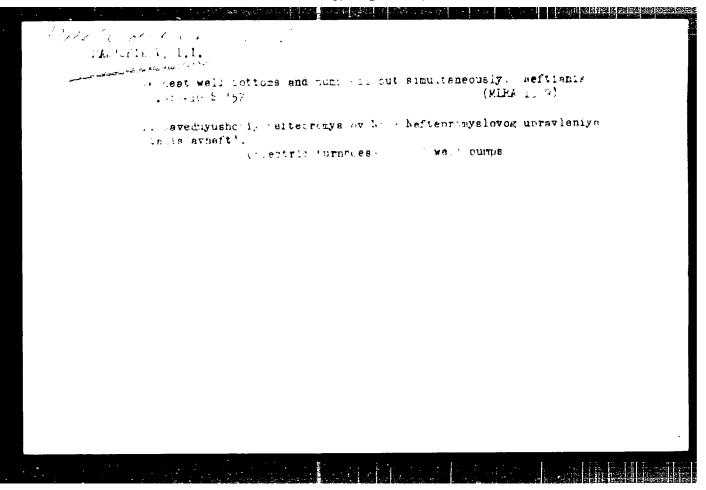
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961. 401, abstract

21M76 ([Tr.] Groznensk. neft. in-t, sb. 24, 1960, 3-7)

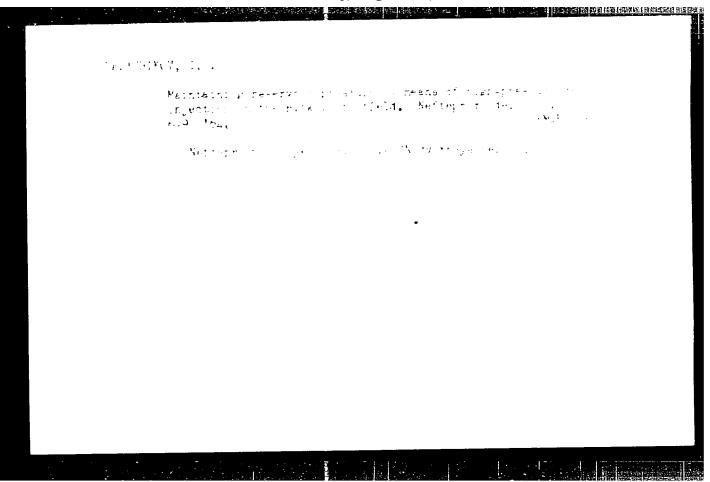
TEXT: On the basis of work carried out in the thermal cracking units of the Groznyy Cracking Plant, a mcdification has been developed and the partial reconstruction of the units is proposed. To permit the separate production of automobile gasoline and tractor kerosene on a unit with one rectification column, it is suggested that the rectifying unit should be changed and a stripping tower, a cooler for the kerosene fraction, and pump and cooler for the circulating reflux introduced. The processing cycle remains unchanged for the furnace, evaporator and supplementary evaporator. The reconstruction proposed would be highly beneficial economically. [Abstracter's note: Complete translation.] Card 1/1



#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



PAL'CHIKOV, I.I.; DRABINA, Ya.M.

Reservoir pressure maintenance by gas injection in the Bitkov field. Neft. khoz. 39 no.2:36-41 F '61. (MIRA 17:2)

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Pal'CHKOV, I.I.; Leartha, Ya.M.

Possibility of maintaining for the secure in the Eitkov field by letting gas flow naturally into the oil layer. Nauch.-tekh. sbor. po dob. nefti no.13:10-18 '61. (MIRA 16:7)

1. Neftepromyslovoye upravleniye Nadvornyanneft'. (Bitkov Region—Oil fields—Production methods)
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#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PAL'CHIKOV, L.M., inzh.

Research on the weakening of coal seams in rock massifs in order to increase the efficiency of hydraulic mining. Trudy VNIIGidrouglia no.1:14-24 '62. (MIRA 10:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

PAL'CHIKOV, C.A.

Synthetic diamends are our best helpers. Mashinostroitel' no.7:
31 J1 '65.

(MIRA 18:7)

Butt welding of wire in patenting furnaces. Metallurg ne.9:29-30 S '56.

(MURA 9:10)

1.Master patentirevechnege etdeleniya Odesskege kanatnoge zaveda (for Babushkin). 2.Master Otdeleniya tekhnicheskege kentrelya Odesskege kanatnoge zaveda (for Pal'chikev).

(Wire-Welding) (Annealing furnaces)

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PAL!CHIKOV, O.A.

Transfer of an automatic wire meshing machine to handle the production of several drawbenches. Metallurg 10 no.12:36-37 D \*65. (MINA 18:12)

1. Odesskiy staleprokatnyy zavod kommunisticheskogo truda.

PALCHROV, V.A.; ZHDANOV, Yu.A.; DOROFEYENKO, G.N.

Synthesis of a stable radical from 2,4,6-triphenyl pyrylium salts.
Zhur. org. khim. 1 no.6:1171 Je '65. (MIRA 18:7)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

ZHDANOV, Yu.A.; DOROFEYENKO, G.N.; PALCHKOV, V.A.

Perchloric acid and its compounds as catalysts in organic synthesis. Part 23: Salts of 2-alkyl[3,4:5,6] bis(indeno)pyrylium. Zhur. ob. khim. 35 no.5:827-831 My '65. (MIRA 18:6)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

ZHDANCV, Yold, Discriptible Little Country, V.A.; CAPA VAN, G.I.

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ethrosystic terral areas with a country of terrans. Doki. All
SANE 15: no. of 15:5 18 Sp. Col. MIRA 17:5)

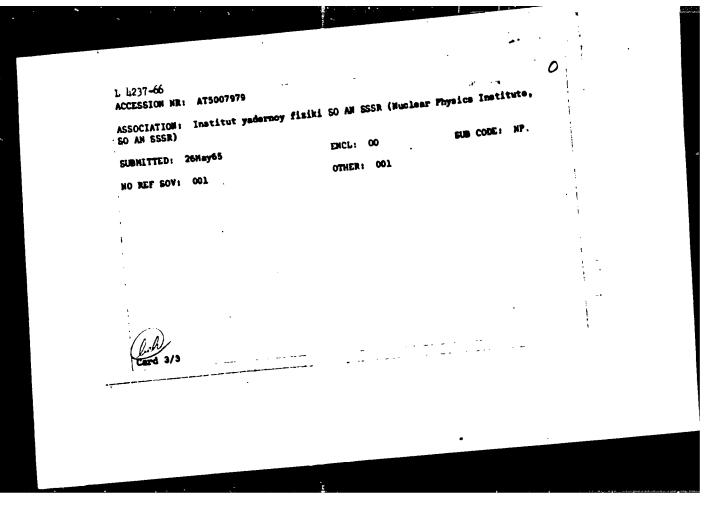
v. Bostovari englisher of bitterphysics versite. Predstaviano aspostobe of terraphysics.

 $L \frac{1.237-66}{1.237-66}$  EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c) 05 B/0000/64/000/000/1065/1072 ACCESSION NR: AT5007979 AUTHOR: Abramyan, Ye. A.; Bender, I. Ye.; Bondarenko, L. N.; Budker, G. I.i. Glagolev, G. B.; Kadymov, A. Kh.; Neshkov, I. N.; Naumov, A. A.; Pal'chikov, V. Ye.; Panasyuk, V. S.; Popov. S. G.; Protopopov. I. Ya.; Rodionov. Yu. I.; Samoylov, I. H.; Skrinskiy, A. N.; Yudin, L. I.; Kon'kov, N. G.; Mostovov. Yu. A.; Nezhovenko, O. A.; Ostreyko, G. N.; Petrov. V. V.; Sokolov, A. A.; Timoshin, I. Ya. TITLE: Work on the strong-current accelerators of the Nuclear Physics Institute, SO AN SSSR. (I) Strong-current pulse accelerators with spiral storage of the electrons. (II) Strong-current accelerators with one-revolution capture of the injected electrons SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 1065-1072 TOPIC TAGS: high energy accelerator, electron accelerator, electron beam, betatron, plasma ABSTRACT: The work on developing strong-current electron ring accelerators was begun in 1965 by the authors at the Nuclear Physics Institute, Siberian Department, Academy of Sciences SSSR, with the object of studying the possibility of Card 1/3

L 4237-66 forming relativistic stabilized beams. In the laboratories of the Institute ex-ACCESSION HR: AT5007979 perimental studies were carried out on the four methods for obtaining large ring currents of relativistic electrons: (1) spiral method of storing the electrons in installations of the betatron type with subsequent betatron synchrotron acceleration (Budker G. I. CERN Symposium 1, 68 (1956); (2) obtaining of limiting electron currents by means of the injection of electrons from a strong-current linear accelerator into a ring chamber of large aperture with subsequent synchrotron acceleration; (3) storage of electrons in tracks (parking orbits) with constant magnetic field by means of the multiple injection of electrons from another less strongcurrent accelerator; this method is utilized for the storage of electrons and poeiturrent accelerator; this method is utilized for the storage of electrons and positions in experiments with colliding beams (expounded in detail by G. I. Budker in the present collection, p. 274); (4) obtaining of large electron currents by in the present collection of electrons by a ring plasma. The present report discusses the first two methods under the following tonics: (1) suless immediate cuses the first two methods under the following topics: (I) pulsed iron-less betatron with preliminary charge storage (B-2 device); strong-current pulsed sym-Chrotron B-25; pulsed strong-current betatron with spiral storage (3-3 device). (II) iron-less one-turn strong-current synchrotron (BSB); strong-current pulsed synchrotron B-2H. Orig. art. has: 7 figures. The same of the sa Card 2/3 dos Second Sec.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238



L 11420-67 EWT(1) LJP(c)

SOURCE CODE: UR/0057/66/036/009/1649/1651

AUTHOR: Volosov, V, I, ; Pal'chikov, V, Ye.; Tsel'nik, P, A.

ORG: none

TITLE: On a method of injecting charged particles into a magnetic mirror system

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 9, 1966, 1649-1651

TOPIC TAGS: magnetic mirror machine, charged particle, electron trapping, magnetic trapping, plasma confinement,

ABSTRACT: L.A.Artsimovich (Upravlyayemyye termoyadernyye reaktsii, str. 385.Fizmatgiz, M.,1961) has shown that charged particles can be injected into a magnetic mirror machine by projecting them in the region of the mirror at a small angle to the plane normal to the magnetic field during establishment of the mirror field. The present authors show that it is possible similarly to inject charged particles from behind the mirror, provided the strength of the magnetic field at the injection point is kept proportional to that of the mirror field during establishment of the latter. To test the method, 100 keV electrons were injected into a 40 cm diameter 150 cm long magnetic mirror system with a mirror ratio of 2.5. The injector consisted of a ring-shaped electron gun mounted on the axis of the system, which produced a conical beam of electrons making an angle of 20 with the plane normal to the axis, i.e., having a vertex angle of 140°. The magnetic field at the electron gun was kept proportional

Card 1/2

UDC: 533.9

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

## 1 11420-67 ACC NR AP6031208

to the mirror field during the rise of the latter with the aid of a special pulsed solenoid mounted within the chamber. With a beam spread of 10°, some 10% of the injected electrons were trapped between the mirrors. The lifetime of the trapped electrons within the trap was from 0.01 to 0.1 sec and was limited only by scattering on the residual gas. There was observed an increase in the fraction of the injected electrons that were trapped with increasing injection current. This increase is in accord with the theory and is due to space charge effects. At very high injection currents, however, the oscillations reported by G.I.Budker, S.S.Moiseyev, and the present authors (Plasma Physics and Controlled Nuclear Fusion Research (Conference proceedings, Culham, 6-10 Sept., 1965), II, 245, IAFA, Vienna, 1965) limit the density of the trapped particles. The authors thank A.P.Yershov and A.A.Zabrodov for assistance with the experiments. Orig. art. has:4 formulas and 1 figure.

SUB CODE: 20

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ORIG. REF: 001

OTH REF:

001

Cord 2/2 bab

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

9(3) AUTHORS:

Podgornyy, I. M., Koval'skiy. H. G., Pal'chikov, V. Ye.

TITLE:

High Power Pulse Discharge Electrons Generating Hari X-Radiation (Elektrony vyzyvayashridye zhostkoye rentgenovskoje izlucheniye moshchnykh impul snykh razryadov)

PERIODICAL: Doklady Akademii nauk SSCR, 1958, Vol 123, Er ..., 37 92 - 2" (USSR)

ABSTRACT:

The present paper reports on the energy of electrons generating . The discharge was produced hard x-radiation. in a porcelain chamber of 175 mm diameter and 1000 mm height. The discharge battery consisted of a condenser battery of 36  $\mu F$  capacity. The experiments were carried out in hydrogen at an initial pressure of 6.10^2 torr which corresponds to the maximum yield of hard X-ray quanta. The presence of X-ray pulses was controlled by a scintillation recording system with pulse oscillograph. This apparatus is described in short. In order to find the dispersion curve of the spectrograph, the electron trajectories had to be constructed graphically. It is not difficult to find the maximum value of the energy which had to be acquired by the electrons when moving along the discharge axis. The experimental data available proved

Card 1/2

SOV/20-123-5-15/50

High Power Pulse Discharge Electrons Generating Hard X-Radiation

that the maximum energy of the electrons amounts to 300 hev. A beam of 100 kev electrons was used for the control of the calculated electron trajectories. Thus, the following facts were proved by direct experiments: The electrons which cause the hard X-radiation in a powerful pulse discharge in hydrogen are accelerated along the axis of the discharge chamber. The recorded maximum energy of the el ctrons amounted to 300+20 kev which agrees well with the results obtained by measurements of the maximum energy of the X-ray spectrum. There are 1 figure and 4 Soviet references.

PRESENTED:

July 31, 1958, by L. A. Artsimovich, Academician

SUBMITTED:

July 25, 1958

Card 2/2

ACC NR. AP6022021 SOURCE CODE: UR/0120/66/000/003/0169/0172

AUTHOR: Volosov, V. I.; Pal'chikov, V. Ye.; Tsel'nik, F. A.

ORG: Institute of Nuclear Physics, SO AN SSSR, Novosibirsk (Institut yadernoy fiziki SO AN SSSR)

TITLE: Cathode with pulsed heating of its emitting surface

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 169-172

TOPIC TAGS: electron tube cathode, electron accelerator, electron emission

ABSTRACT: A theoretical and experimental study is reported of an additional pulsed heating of a hot <u>eathode</u> up to the present the emission-current density. As both the size of the highest-temperature region and the quantity of evaporating cathode material are small (the duty factor is assumed to be low), a much longer cathode life can be expected. The cathode is preheated to 2000—2500K. A formula for final temperature is derived from an equation describing the ionization loss of the electron energy. An experimental verification included a 2-cm diameter tantalum cathode run at 2300—2400K and additionally pulse-heated up to a current density of 40—70 amp/cm²; pressure, 10-5 torr; pulse duration, 2 µsec. "The authors wish to thank G. I. Budker for discussing the results and K. P. Veselkov for building the laboratory outfit."

[03]

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ANDRUSHCHENKO, A.G.; BEREZKINA, O.A.; KUZ'MINA, V.I.; OZEROVA, G.M.; PAL'CHIKOVA, A.P.; TSARIN, A.P.; TIMOFEYEV, L.N.; NIKITIN, G.A., krayeved; GARMASH, P.Ye., red.; FISENKC, A.T., tekhn. red.

[Alupka; an excursion sketch, its nature, history, sanatoriums, the palace-museum, its park, and an information directory] Alupka; ekskursionnyi ocherk: priroda, istoriia, zdravnitsy, dvorets-muzei, park, spravochnye svedeniia.
Simferepol', Krymisdat, 1963. 78 p. (MIRA 16:10)

AMERUSHCHEMKO, A.G., nauchnyy sotrudnik; REREZKIMA, O.A., nauchnyy sotrudnik; KUZ'MIMA, V.I., nauchnyy sotrudnik; OZEROVA, G.M., nauchnyy sotrudnik; PAL'CHIKOVA, A.P., nauchnyy sotrudnik; TSARIH, A.P., nauchnyy sotrudnik; HIKITIK, nauchnyy sotrudnik; TIMOFETEV, L.M., nauchnyy sotrudnik; HIKITIK, G.A., krayeved; CHEREPABOV, B., red.; ISUPOVA, M., tekhn.red.

[Alupka; a sketch for excursionists] Alupka; ekskursionnyi ocherk. Simferopol<sup>1</sup>, Krymisdat, 1961. 84 p. (MIRA 14:7)

1. Alupkinskiy dvorets-musey (for all except Cherepanov, Isupova).
(Alupka-Description)

## PAL'CHIKOVA, R.P.

Results of the treatment of malignant neoplasms with a benzotef preparation. Vrach.delo no.12:117-118 D '62. (MIRA 15:12) \*

Kafedra gospital'noy terapii (zav. - dotsent M.P.Kozlovskaya)
 lechebnogo fakul'teta Khar'kovskogo meditsinskogo instituta i
 27-ya gorodskaya klinicheskaya bol'nitsa.
 (CANCER) (DRUGS)

Viscosimetry of polymer solutions. Part 1: Capillary viscometer with electronic recording of flow time. Vysokom.soed. 3 no.6:936-942 Je '61. (MIRA 14:6)

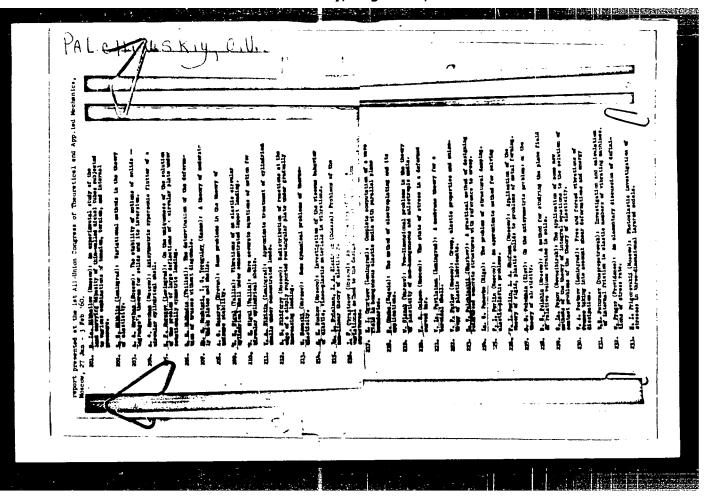
1. Politekhnicheskiy institut, Lods'. (Viscosimeter) (Polymers)

Practical methods for designing reinforced concrete construction elements taking into account rheological properties of materials. Shor.trud.IUZHBII mo.3:3-63 '59.

(Strains and stresses)

(Rheology)

TYMEIMOV, A.A., BONDARENKO, V.M., GERCHULA. .. B. FALL HIN K. J. F.V. Study of the deformation concrete. Sbor. nauch. 50%. KDFT 18:29-44 162.



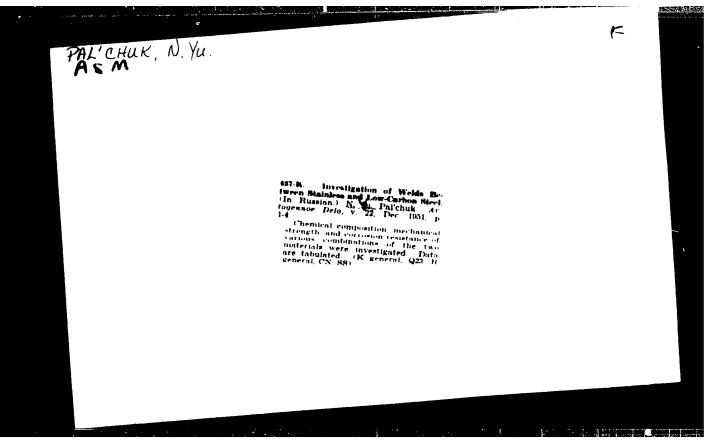
PALICHUK, Nikolay Trofimovich; LYUBOVSKIY,A., redaktor; ZELIMKOVA,Ye.,

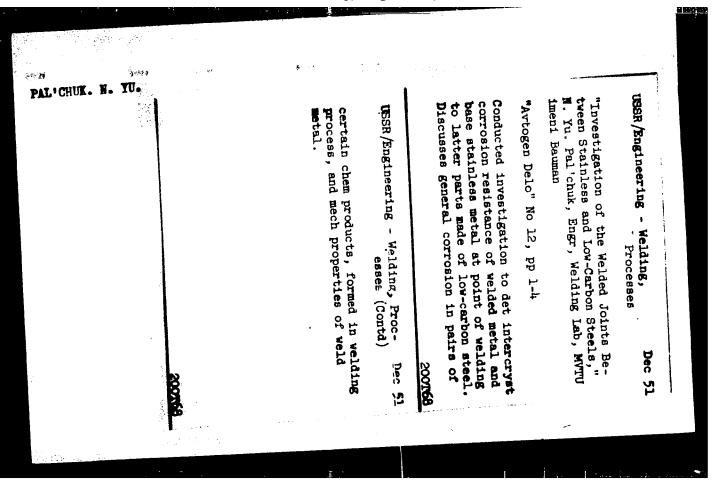
ત્યાન હોડા જા**રોદું <sub>ક</sub>ું દે**ડ શેરિકાલ <del>કે કોર્ટે</del>દાજ (૧૯૬)ન

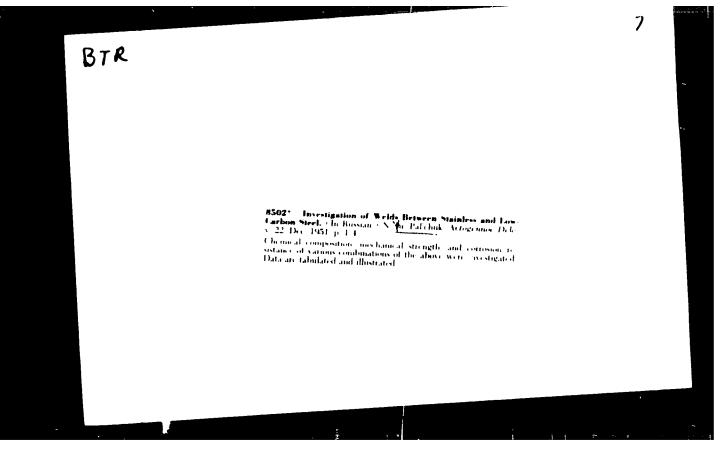
[Designing and installing water and steam heating systems with heating concrete panels; provisional instructions] Proektirovanie i montash vodianykh i parovykh sistem otoplenila s greiushchimi betonnymi paneliami; vremennye ukasanila. Isd. 2-oe, perer. i dop. Kiqv, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture USER, 1955. 43 p. (MIRA 9:3)

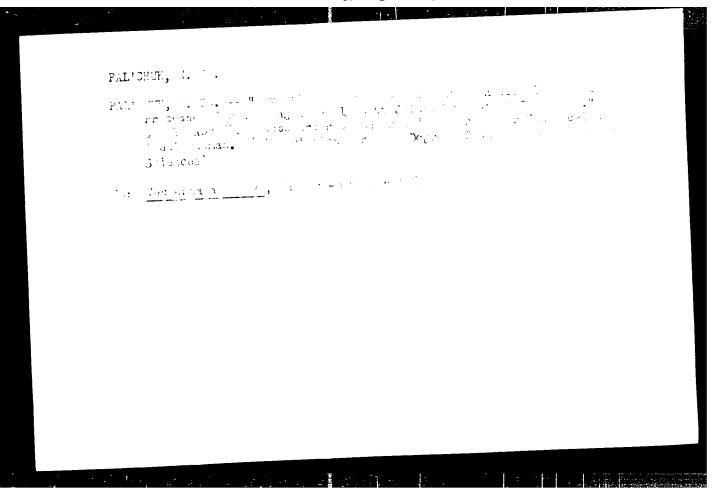
1. Akademiya arkhitektury URSR, Kiyev. Institut budivel'nci tekhniki.

(Radiant heating)







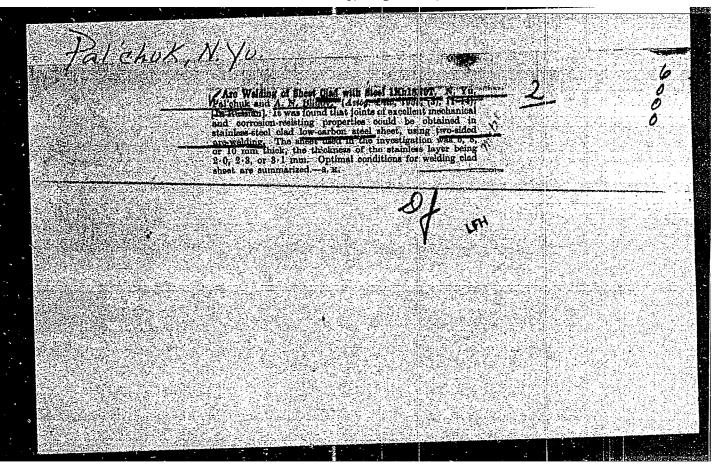


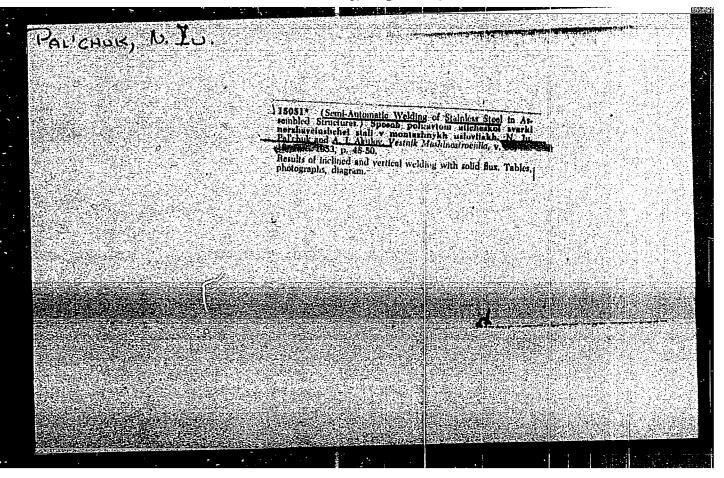
PALICHUK, N. YU., ENG.: MAKAROV, N. I., ENG.; AAKEYEV, M. G., ENG.; BRODOVICH, N. V., ENG.; LIBER, M. I., ENG.

Electric Welding

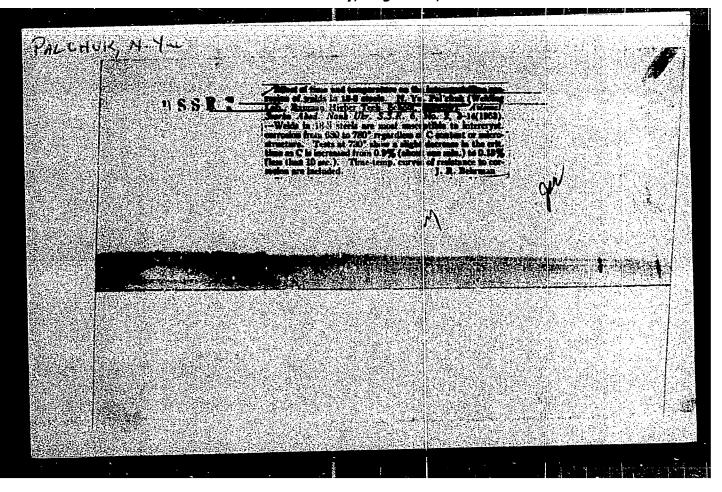
Welding with electrode cluster. Avtog. delo, 23, No. 6, 1952.

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





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2. UISR (600)

... Llectric Welling

7. Are welding of two-layer sheets coated with steel INFISM9T, N.Ya Palichuk, hag. s.M. Blinov, Avtog.delo 24 no. 3, 1952.

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

PALICHUE, N.Yu., kandidat tekhnicheskikh nauk.

Welding one-sided joints of two-layer sheets with a cover of "lKhl8H9T" (MLRA 6:8) steel. Vest.mash. 33 no.7:63-66 Jl 153.

1. Svarochnaya laboratoriya Moskovskogo vysshego tekhnicheskogo uchilishcha (Electric welding) im. Baumana.

PALICHUK, B. Yn., kandidat tekhnicheskikh nauk; AKULOV, A.I., kandidat tekhnicheskikh nauk.

Method of semiautomatic welding of stainless steel, which is in a process of assembly. Yest. msh. 33 no.12:48-50 D \*53. (MLRA 6:12) (Welding) (Steel, Stainless)

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