

USAKOVSKAYA, T. S., GOLUBEVA, G. P., RYABCHERKO, N. I., SOKOLOVA, T. D., TSEYTLIN, P. I., SPITKOVSKI, D. M. (USSR).

Structural Lability of Deoxyribonucleic Acids and Deoxyribonucleoproteins as a function of their Molecular Morphology.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow; 10-16 Aug. 1961

2000年12日,1900年

TSEYTLIN, P. I.; USAKOVSKAYA, T. S.

Effect of ionizing radiation on the complexes of deoxyribonucleic acid with methylamine; on the problem of radiosensitive and radioresistant forms of deoxyribonucleic acid. Radiobiologiia 2 no.3:356-361 162. (MIRA 15:7)

1. Institut eksperimental'noy biologii AMN SSSR, Moskva.

(NUCLEIC ACIDS) (METHYLAMINE) (X RAYS—PHYSIOLOGICAL EFFECT)

TSEYTLIN, P.I.; USAKOVSKAYA, T.S.: SPITKOVSKIY, D.M.; TOKGUR, V.S.

Study of the raciosensitivity of DNA on the molecular level.

Trudy MOIP. Otd. biol. 7:42-46 '63. (MIRA 16:11)

#### "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001858110015-1

L 31194-66  $EWP(\frac{1}{2})/EWT(m)$ SOURCE CODE: UR/0216/66/000/002/0197/0210 ACC NR: AP6022568 ات ک AUTHOR: Tseytlin, P. I.; Spitkovskiy, D. I.; Gorin, A. I.; Ivannik, B. P.;
Kulikova, L. G.; Luchkina, L. A.; Martynov, E. V.; Ryabchenko, N. I.; Usakovskaya, ORG: Institute of Experimental Biology, AMN SSSR, Moscow (Institut eksperimental noy biologii AMN SSSR) TITLE: Analysis of radiation injury to deoxyribonucleoproteins/at the molecular and supramolecular levels SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 2, 1966, 197-210 TOPIC TAGS: radiation injury, protein, DNA, x ray irradiation, hydrogen bonding, molecular structure ABSTRACT: X-irradiation does not give rise to covalent crosslinks within the DNA macromolecule, i.e., it does not prevent the separation of ENA strands or interfere with its replication. The authors' studies on optic rotation of DNA and DNP and melting curves indicate that irradiation causes latent damage to the system of hydrogen bonds. The formation of single breaks in the polynucleotide skeleton may result in rotation around the remaining single bond at the site of the break. This may produce local change in the configuration of the DNA macromolecule, resulting in steric hindrance between the DNA and corresponding protein molecule. Irradiation with doses below 105 rad causes treaks only in a small number of DNA molecules. This does not alter the physicochemical properties of the DNA or DNP as a whole, although it undoubtedly has some biological Card 1/2

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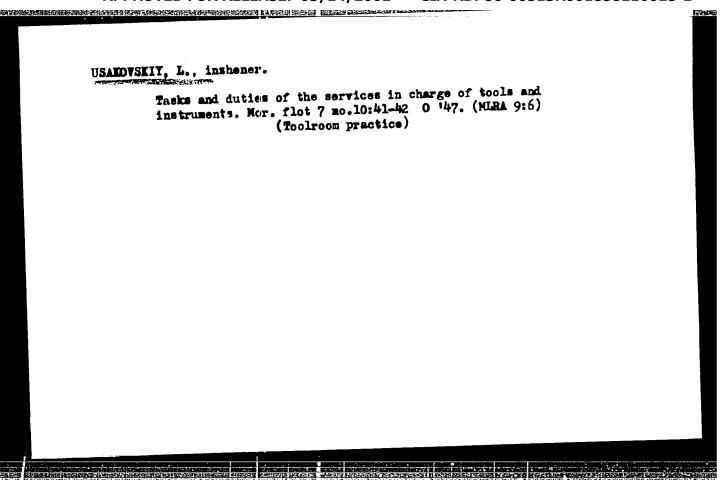
USAKOVSKIY, A.Ye., starshiy master

Rapid lathe operator S.M.Bushuev. Mashinostroitel' no.1:23-24
N '56.

1. Avtosavod imeni Likhacheva.

(Turning)

SAKOVSKIY,	L.		
-	. <b>.</b>	USSR/Ships - Construction Oct 1947	<del>_</del>
		"Problems and Functions of Tool Agencies," L. Usakov- skiy, Engr, 12 pp	
		"Morekoy Flot" No 10	
		Discussion of the proper operation and functions of tool agencies in supplying tools, in acting as a cen- tral storercom for tools, in buying new tools and materials necessary to make them, and in keeping tools in proper operating condition.	
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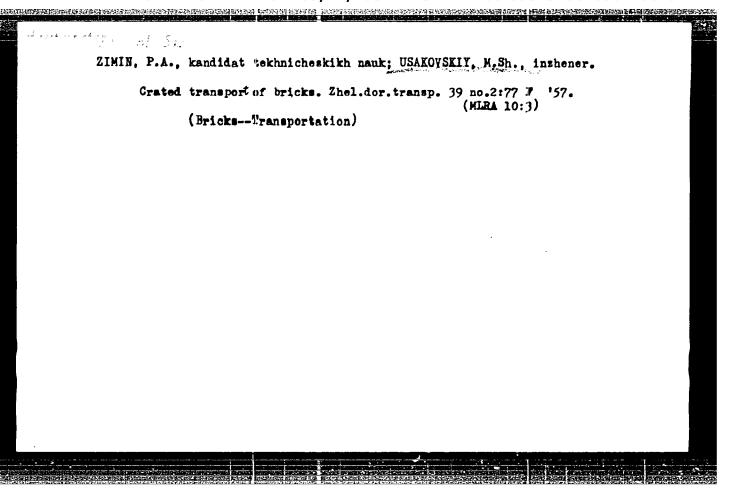
USAKOVSKIY, M., inzh., laureat Stalinskoy premii

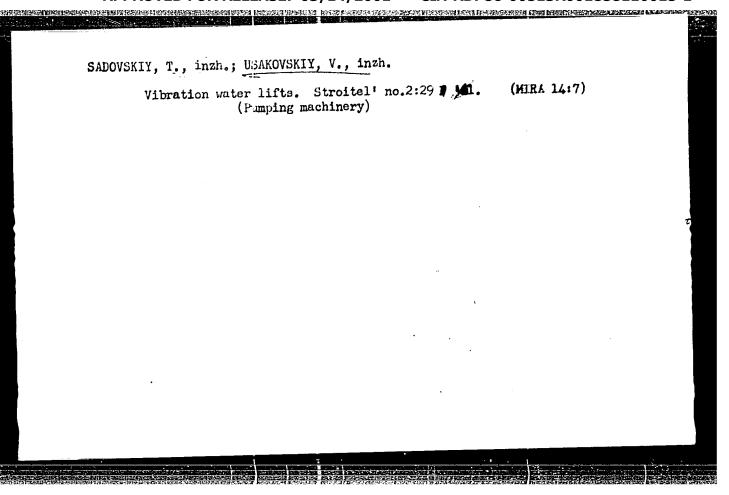
Automatic loaders. IUn. tekh. 5 no. 12:12-14 D '60.

(MIRA 14:1)

(Loading and unloading)

(Automatic control)





USAKOVSKIY, V.M., FROMINAPTAN, H.G., red.; DTBINA, V.N., tekhn.red.

[Using new materials and designs of pipes during the current seven-year plan] Primenenie novýkh materialov i konstruktsii truboprovodov v tekushchei semiletke; lektsiia dlia studentov VZIITa V-VI kursov vsekh spetsial nostei. Moskva, Vses.

zaochnyi in-t inshenerov zhel-dor.transp., 1959. 19 p.

(Pipe)

ACC NR: AP6035759	(P,N)	SOURCE CODE: UR/0413/66/000/019/0130/0131
INVENTOR: Slavin, R.	1.; Usakovski	y, V. M.; Babakhanov, Yu. M.; Lugovskoy, M. V.
ORG: none		
Scientific Research In	stitute for R	ass 59, No. 186862. [announced by the All-Union ural Electrification (Vsesoyuznyy nauchno-issledo sel'skogo khozyaystva)
SOURCE: Izobreteniya,	promyshlemyye	obraztsy, tovarnyye znaki, no. 19, 1966, 130-13
TOPIC TAGS: machanias	kxaničiusanjuh	, fluid pump, hydraulic pump, electric motor
sisting of a housing c rotor and a female sta transferred from the intensify cooling,	ontaining a p tor, the pump discharge to the pump's w and the elect rect transfer	s been issued for a hermetic electric pump con- ump and an electric-drive motor with an outer is cooled by a part of the fluid which is the suction nozzle. To simplify design and orking members are located on the surface of the ric-motor housing, and the winding of the stator of the cooling flow through the stator's slots.
SUB CODE: 13/ SUBM DAT	E: 26Apr65/	
Card 1/1		UDC: 621,67-83
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USAKOVSKIY, V.M., inzh.

Study of the possibility of using vibration techniques for raising water from slim wells. Nauch. trudy VIESNH 7:5-8 '60.

(MIRA 15:8)

(Stock and stockbreeding—Water supply)

(Water supply, Rural)

MIKHAL CHENKO, G.A.; MICTUREV, Yu.A.; TORTIOV, N.A.; USALOV, Yu.P.

Topography of the luminosity apparent in the mechanical de-excitation of P-irradiated alkali halide drystal phosphors. Opt. i spektr. 18 no.6:1072-1075 Je '65.

(MIRA 18:12)

USAN, A.L

28(2)

PHASE I BOOK EXPLOITATION SOV/1679

Froshikov, Aleksandr Ivanovich, and Aleksandr Lukich Usan

Schetno-perforatsionnyye 45-kolonnyye mashiny; tekhnicheskoye obsluzhivaniye i remont (Forty-Five Column Punched Card Computer; Servicing and Repair) Moscow, Mashgiz, 1958. 270 p. 3;000 copies printed.

Reviewers: N.A. Vasilevskiy and I.F. Merekalov; Ed.: M.G. Rappoport; Ed. of Publishing House: A.G. Akimova; Tech. Ed.: A.F. Uvarova; Managing Ed. for Literature on Machine Building and Instrument Construction: N.V. Pokrovskiy, Engineer.

PURPOSE: The book is intended primarily for mechanics engaged in the maintenance and repair of punched card computers, and may also be useful to people employed in the field of mechanization of calculations.

Card 1/12

Forty-Five Column Punched Card (Cont.) SOV/1679

COVERAGE: The book contains basic information for the maintenance and repair of a 45-column punched card computer. The material is based on the experience of several Soviet computer stations and of Soyuzmashuchet. In addition, instructions found in the technical and servicing manuals accompanying the machine are taken into consideration. A brief description of the construction of a 45-column punched card computer is given, as well as methods of determining defects in mechanisms and computer blocks, and some practical examples of modernizing computers in order to increase their utility. No personalities are mentioned. There are no references.

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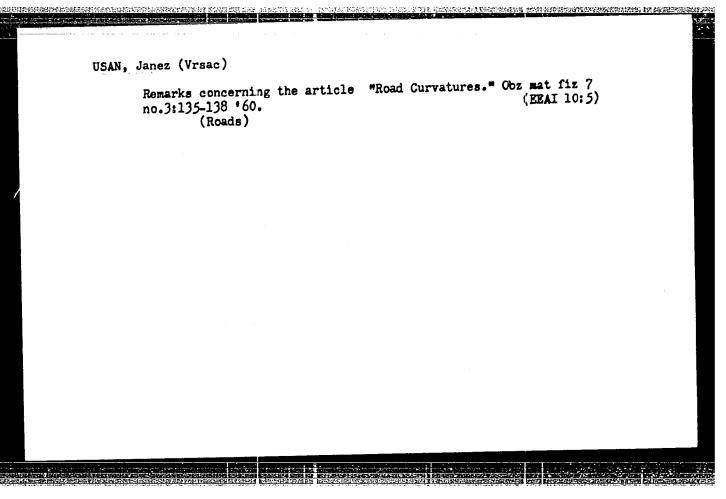
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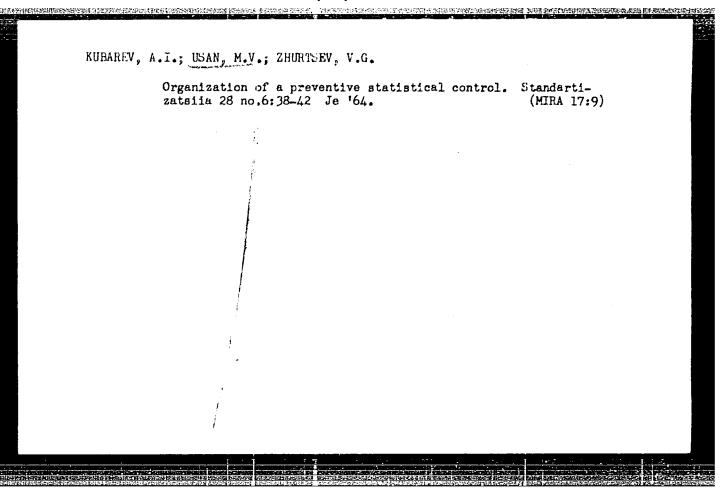
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AVAILABLE: Library of Congress (QA 75.G77) LK/jmr	
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USAN, M.V.; ZHURTDEV, V.G.; KUBAREV, A.I.

Effect of some technological factors on the operating precision of automatic lathes for longitudinal form turning. Stan. 1 instr. (M.RA 17:12)

ZHURTSEV, V.O.; KUBAREV, A.I.; USAN, M.V.

Determination of the zones of tolerance for the ajustment of machine tools. Priborostroenie no.12:21-24 D '64.

(M1RA 18:3)

BUKHMAN, A.S., kand.teldnn.nauk; USAN-PODGORNOV, B.M., insh.

Prestressed reinforced concrete ties for mine timbering.
Shakht. stroi. no.12:23-26 D '57.

(Mine timbering)

(Prestressed concrete construction)

SOV/97-58-10-7/17

Bukhman, A.S. (Candidate of Technical Sciences) AUTHORS:

Usan-Podgornov, B.M. (Engineer).

Construction of Precast Prestressed Reinforced Concrete TITLE:

Pit Props and Technology of their Manufacture (Konstruktsii predvaritel'no napryazhennykh zhelezobe-

tonnykh elementov shakhtnoy krepi i tekhnologiya ikh

PERIODICAL: Beton i zhelezobeton, 1958, Nr 10, pp 383-385 (USSR)

ABSTRACT: In 1957-58 the authors of this article designed precast prestressed reinforced concrete slabs for propping coalprestressed reinforced concrete slaps for propping coal-mine galleries. This work was carried out in conjunction with M.N. Geleskul, Candidate of Technical Sciences, in the Laboratory for New Designs of Coal-Mining Supporting Constructions, of the Scientific and Research Institute for Coal Mining (VUGI). This new type of propping slab was tested and the results are described in detail. Concrete mark 400 was used based on granite aggregate. The concrete mix was 1:1.5:1.5 and the water/ The cement was of cement ratio between 0.28 and 0.32.

350-400 kg/cm<sup>2</sup> activity and was ground on vibro-grinder VM-10. The reinforcement was of 2.6 mm diameter high Card 1/3

SOV/97-58-10-7/17

Construction of Precast Prestressed Reinforced Concrete Pit Props and Technology of their Manufacture

> carbon wire with an ultimate strength of 187 kg/mm<sup>2</sup>. The slabs were consolidated on vibrating table VS-1M. Curing was carried out at a mean temperature of 18 - 20°C. Tensioning was carried out on stand SNS-1 constructed by Giprouglemash. The tensioning apparatus used was of the type DP-2 of TsNIIS. Tests show that this concrete slab reaches during bending a strength of 40 kg/cm2. Table 1 gives values obtained during tests which prove that constructions from prestressed reinforced concrete slabs type VUGI are three times stronger and much more economical than those from ordinary reinforced slabs At the same time the above mentioned laboratory studied mass production of these slabs by the method of casting by vibration. Fig 2 shows the concreting yard and combine on which these slabs are manufactured. Fig 3 shows the vibrating construction used in the manufacture of slabs of rectangular crosssection. Table 2 shows that the strength of the concrete and the load-bearing capacity of the concrete slabs are adequate after only 5 - 10 days of hardening.

Card 2/3

Construction of Precast Prestressed Reinforced Concrete Pit Props and Technology of their Manufacture

Between 1952-54 the VUGI, in collaboration with TsNIPS, worked on the manufacture of slabs of rectangular cross-section for pit-propping, and on conveyor and stand methods of production. Fig 4 illustrates vibrating stand forming part of a concreting combine for casting prestressed reinforced concrete slabs of fashioned cross-section. Vibrators of the type I-50 were used.

There are 4 figures and 2 tables.

Card 3/3

GELESKUL, M.E.; KISELEV, Ye.S.; USAN-PODGORNOV, B.M.

Use of new reinforced concrete frame timbering made of T section members. Ugol' 35 no.5:41-44 My '60. (MIRA 13:7)

(Mine timbering)

(Reinforced concrete construction)

GELESKUL, M.N.; USAN-PODGORNOV. B.H.

Study of rock pressure manifestations in the mines of the Moscow Basin. Ugol' 36 no.6:23-24 Je '61. (MIRA 14:7)

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GOLESKIL, Mikhail Nikitovich; USAN-PODGORNOV, Boris Mikhaylovich;
KOSTAN'YAN, A.Ya., red.izd-va; BOLDYREVA, Z.A., tekhn. red.

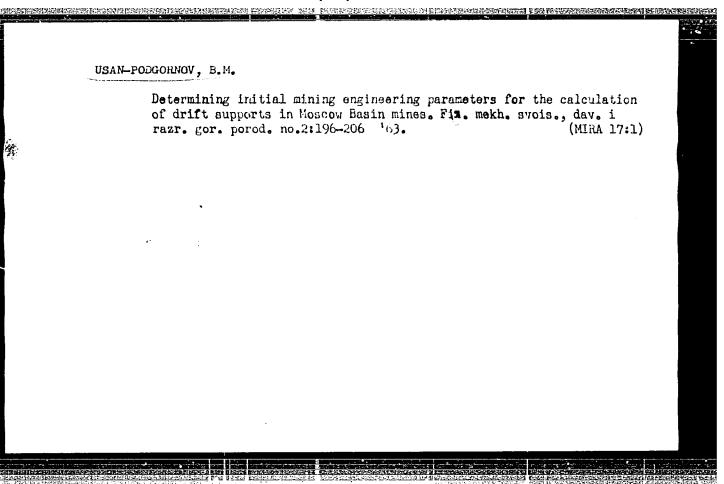
[Repair of mine workings for the timberer] Krepil'shchik po remontu gornykh vyrabotok. Moskva, Gosgortekhizdat, 1962. 246 p.

(Mine timbering)

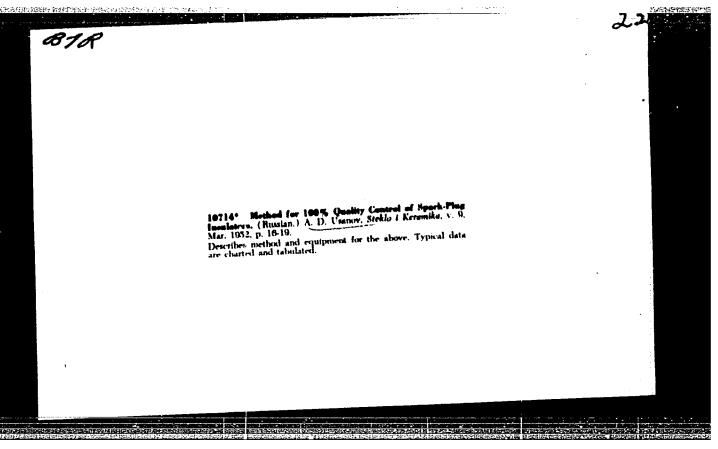
USAN-PODGORNOV, B.M., inzh.

Study of the operating conditions of a support in drifts driven in unstable rocks. Nauch. soob. IGD 15:120-128 '62.

(MIRA 17:2)



# Eighty projects. Sov.shakht. 10 no.4:15 Ap '61. (MIRA 14:9) 1. Nachal'nik proyektno-konstruktorskogo byuro shakhty No.5-bis "Trudovskaya". (Mining engineering)



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	Monthly List of Rusgian Accessions, Library of Congress June 1953. FIGL.	
7 L		

USANOV, A D.
test/Engineering - Fuel pumps

Card 1/1 : Pub. 12 - 3/14

Authors

t Chapchaev, A. A.; Usanov, A. D.; and Hinyaylov, V. F.

Title

\* Standardizing fuel pumps for automobile engines

Periodical

8 Avt. trakt. prom. 5, 9-12, May 1954

Abstract

\* The editorial gives some information concerning tests, conducted by the Scientific Automotive Institute, on standardizing fuel pumps for the GAZ-51, ZIM, GAZ M-50, ZIS-120, and ZIS-5M automobile engines. Illustrations and diagrams depicting the testing of fuel pumps, are presented. Graph; drawings.

Institution

Submitted

CIA-RDP86-00513R001858110015-1" APPROVED FOR RELEASE: 03/14/2001

S	tandardisation :	in the automobile	industry. Stands (M)	artisatsiia LRA 8:6)	
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USANOV, A. D.

USANOV, A. D. "Investigation of the Effect of the Basic Parameters and Conditions of Operation of an Automobile Engine on the Operating Condition of the Spark Plugs." Min Automobile Industry USSR. State Union Order of Labor Red Banner Sci Res Automobile and Automotor Inst (NAMI). Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 18, 1956,

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		B.A., kand.tekhn.nauk; MINYAYLOV, V.F.; USANOV, A.D., kand.tekhn.nauk.
		Engine of the FIAT-600 automobile. Avt.i trakt.prom. no.7:44-46 J1 157.  (ItalyAutomobilesEngines)

113-58-7-11/25

AUTHOR:

Usanov, A.D., Chapchayev, A.A.

TITLE:

The Effect of the Operating Conditions of the Engine on the Operation of the Spark Pluga (Vliyeniye rezhimov ekspluatatsii dvigatelya na rahotu svechey zazhiganiya)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 7,pp 22-25 (USSE)

ABSTRACT:

Research conducted by Academician Kulebakin of the TsKP mototsiklostroyeniya (TsKB of Motorcycle-Building), the LFI imeni Kalinina (LPI imeni Kalinin) and the NIIAvtopriborov, has cast light on several technical problems connected with the increase of the reliability and evaluation of the thermal properties of spark plugs. Investigations were made with the aid of onecylinder sections and the many-cylinder engines of serial production, such as GAZ M-20, GAZ-51, ZIL-120 and MEMA-401. Thus the characteristics of an AllU plug with a heat chamber of C.61 cubic cm content changes sharply depending on the spot they are inserted, while the temperatures of a plug of the same type but with a heat chamber content of 0.21 cubic cm almost never change, no matter where the plug is inserted. Consequently, changes of the heat chamber content should be utilized in the standardization of spark plugs and creation of a rational thermal range. The AllU plug, with its heat chamber content of

Card 1/2

CIA-RDP86-00513R001858110015-1"

APPROVED FOR RELEASE: 03/14/2001

113-58-7-11/25

The Effect of the Operating Conditions of the Engine on the Operation of the Spark Plugs

TO THE PROPERTY OF THE SENSE OF

C.61 cubic cm, is close to the A16U plug, of 0.53 cubic cm, with respect to thermal characteristics. It was found that the existing plug type most suitable for the thermal tension conditions of the engines is a 14-mm spark plug with a threadless fastening of the shaft of the central electrode to the uralite insulator, and with the core fastened to the spark body by an airtight powder sealing. There are 2 photos, 3 graphs, and 3 diagrams.

ASSOCIATION: NAMI (NAMI)

1. Spark plugs--Performance 2. Spark plugs--Thermal properties

Card 2/2

USANOV, A.V., inzh.; LAEYUKHINA, G.G., inzh.

Shortcomings in methods for testing dusters and sprayers. Trakt.
i sel'khozmach. 8:29-30 Ag '58. (MIRA 11:8)
(Spraying and suting equipment--Testing)

IL'IN, Gennadiy PavlovichiuSANOV, Aleksandr Vasil'yevich; MUKHIN, A.I., red.;
IOFINOVA, TS.B., red. i zd-va; LOBANKOVA, R.Ye., tekhm. red.

[Machinery and equipment for the reforestation of cutover areas]
Mashiny i orudiia dlia sozdaniia lesnysh kul'tur na vyrubkakh.

Moskva, Goslashumisdat, 1961. 95 p. (MIRA 14,8)

(Forests and forestry-Equipment and supplies) (Reforestation)

USANOV, B.

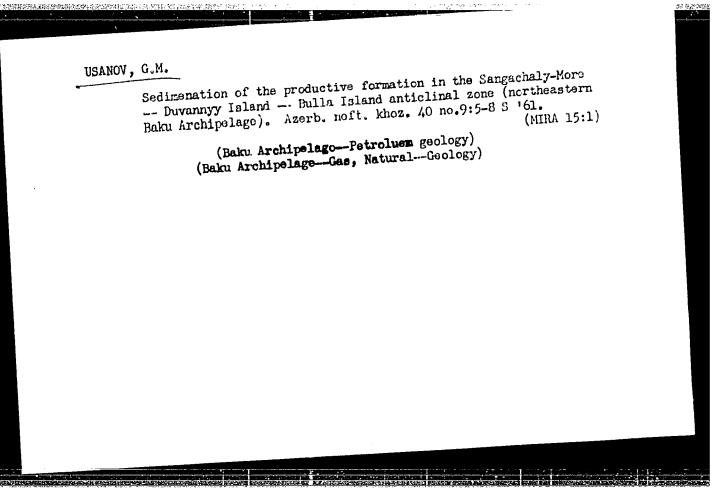
Aerial sportsmen of Lenin's city. Kryl.rod. 14 no.4:6-7 Ap
(63.

1. Sekretar' Leningradskogo gorodskogo komiteta Leninskogo
Kommunisticheskogo goyuza molodeshi.
(Leningrad--Aerial sports)

USANOV, D.D., kand.tekhn.nauk; ERMAN, T.B.

Electric equipment for Fiat cars with small displacement engines.
(MIRA 14:3)

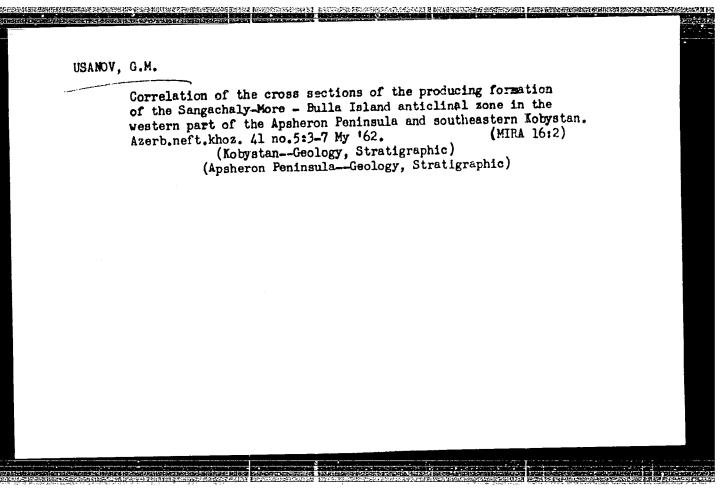
(Italy—Automobiles—Electric equipment)

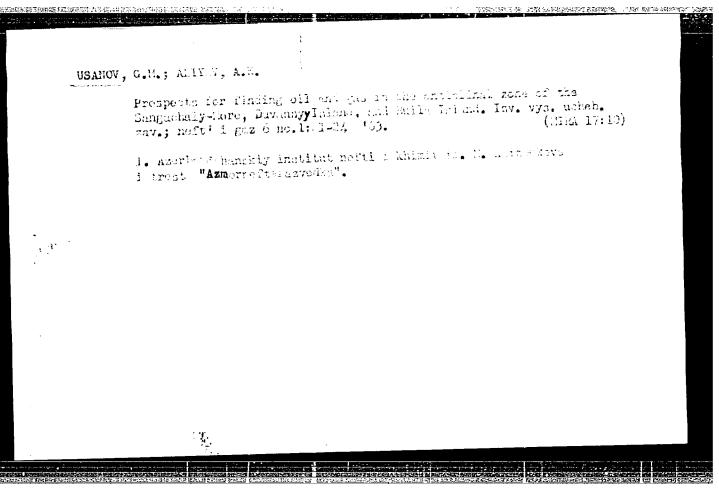


ALIYEV, A.K.; USANOV, G.M.

Now data on oil and gas occurrences of Duvannyy Island and the
165.
Sangachaly - More area. Neftegaz.geol. 1 geofiz. no.8:3-5 (MIRA 18:8)

1. Trest "Azmornefterazvedka".





Joint tectonics of a beryl Sov.geol. 7 no.2:30-41 F	deposit of a new mo:	rphological typs. (MIRA 17:3)

# USANOV, L.

Wide utilization of reinforced concrete elements by collective farms. Sel'.stroi.ll no.ll:7 N '56. (MJRA 10:1)

1. Predsedatel kolkhoza imeni Stalina, Verontsovo-Aleksandrovskogo rayona, Stavropol'skogo kraya, deputat Verkhovnogo Soveta RSFSR.

(Reinforced concrete construction)

USANOV, M.S.

Modernization of carding machines. Za indus.Riaz. no.2:21 D '61.

(MIRA 16:10)

1. Glavnyy inzh. Klepikovskoy vatnoy fabriki "Krasnyy Oktyabr'."

KALININ, V.I.; AVERKIN, V.D.; KLUBOV, V.A.; USANOV, N.A.

Trends in prospecting for gas- and oil-bearing structures in the Buzuluk trough and adjacent regions. Geol. nefti i gaza 7 no.11:6-13 **11:63**. (MIRA 17:8)

1. Kuybyshevneftegazrazvedka, Vsesoyuznyy nauchno-issledovateli-skiy geologorazvedochnyy neftyanoy institut i Orenburgmefteraz-vedka.

USANOV, P.; BLOKH, V.; KABANOV, N.; MAYOROV, I.; AMCHISLAVSKIY, F.

Reduction of staff personnel is an essential matter. Sots.trud no.3:105-126 Mr '58. (MIRA 13:3)

1. Nachal'nik otdela organizatsii proizvodstva tekhnicheskogo upravleniya Leningradskogo soveta narodnogo khozyaystva (for Usanov). 2. Direktor zavoda svetotekhnicheskikh izdeliy (for Blokh). 3. Nachal'nik otdela truda i zarplaty Pervogo gosudarstvennogo podshipnikovogo zavoda (for Kabanov). 4. Direktor Leningradskogo zavoda delitel'nykh golovok (for Mayorov). 5. Nachal'nik proizvodstva Leningradskogo zavoda delitel'nykh golovok (for Amchislavskiy).

(Leningrad -- Industrial organization)

USANOV, I	
	Consolidation of related enterprises in the Leningrad Economic Region. Sots.trud 5 no.2:70-72 F '60. (MIRA 13:6) (Leningrad economic regionConsolidation and merger of corporations)
	•

SHUMMELIN, Viktor Semenovich; USANCV, P.A., redaktor; FEDOROV, B.M., redaktor;

KARASIK, N.P., tekhnichtekiy redaktor.

[Table for computing the volume of logs edged only on two parallel

atdeal Tablitay ob'emov neobreznykh pilomaterialov (brus'ew), Moskva,

(MIRA 9:5)

Goslostn ....at, 1956. 381 p.

(lumber--Mensuration)

ANIKIN, Anstoliy Mikhaylovich; ANTONOVA, Roza Petrovna; BAKHTEYAROV,
Vladimir Dmitriyevich; USANOV, Petr Alekseyevich, retgenzent,
otv.red.; BURKOV, Vesiliy Ivanovich, retsenzent; PITEMAN,
Ye.L., red.izd-ve; KORNYUSHINA, A.S., tekhn.red.

[Building prefabricated wooden houses] Zavodskoe derevinnnoe
domostroenie. Moskva, Goslesbumizdat, 1960. 230 p.

(Buildings, Prefabricated) (Building, Wooden)

(Buildings, Wooden)

IVANOV, David Vasil'yevich; SHCHEGLOV, Valentin Fedorovich;
RVANIN, Rostislav Vasil'yevich; ISANOV, P.A., red.;
RVANEL', L.S., red. izd-va; SHIBKOVA, R.Ye., tekhn.red.

[Automation of sorting devices and bundle making machines for lumber] Avtomatizirovannye sortirovochnye ustroistva i paketo-formirutushchie mashiny dlia pilomaterialov. Moskva, Goslesformirutushchie mashiny dlia pilomaterialov. Moskva, Isanova, I

ALEYNIKOV, N.A.; GOLOVANOV, G.A.; USACHOV, P.A.; TOCHILIN, M.S.;
PTITSYN, Yu.V.

Winning high-iron magnetite-hematite concentrates. Biul.tekh.ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. no.5ill-13
'62. (Iron-Metallurgy)

USANDV, V., brigadir slesarey

All this should be realized. Izobr.i rats. no.11:27 % '58.

(MIRA 11:12)

1. Vyrubochnyy tsekh fabriki "Skorokhod," Leningrad.

(Leningrad.—Shoe industry)

### "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001858110015-1

L 14450-66 EWT(m)/T ACC NR: AP6002950

SOURCE CODE: UR/0286/65/000/024/0116/0116

INVENTOR: Usanov, V. A.; Usov, I. R.

ORG: none

TITLE: Altitude compensating unit for carburetors in internal combustion engines. Class 46, No. 177202 [announced by Central Scientific Research and Design Institute for Fuels Systems in Automotive and Stationary Engines (Tsentral'nyy nauchnoissledovatel skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarhykh dvigateley)]

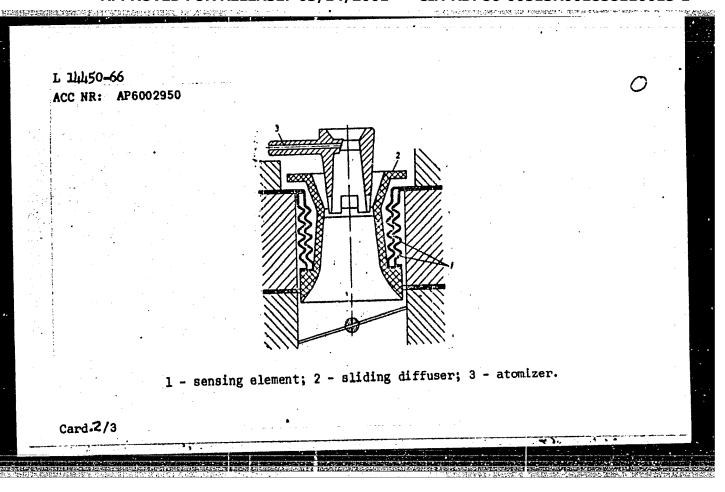
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 116

TOPIC TAGS: internal combustion engine, diffuser, fuel carburetor

ABSTRACT: This Author's Certificate introduces an altitude compensating unit for carburetors in internal combustion engines. The device contains a sensing element, e.g. a bellows, which reacts to changes in atmospheric pressure, and an actuating mechanism which controls fuel supply from the atomizer to the intake channel by changing the vacuum in the main metering system of the carburetor. The design is

Card 1/3

UDC: 621.43.033.6(23.08)



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ACC NR: AP6002950

simplified and the operating stability is improved by making the actuating mechanism in the form of a sliding diffuser connected to the sensing element. The atomizer is located in the throat of the diffuser.

SUB CODE:

21/ SUBM DATE: 15Aug63

NXX

85433

10.4100

s/170/60/003/011/004/016 B019/B056

11.9200 AUTHORS:

Tsiklauri, G. V., Usanov, V. V.

TITLE:

The Problem of Heat Exchange in a Tube at High Air

Velocities

PERIODICAL:

Inzhenerno-fizioheskiy zhurnal. 1960 Vol. 3, No. 11,

pp. 48-51

TEXT: The one-dimensional flow of a compressible gas in a tube is measured under the assumption of a convective heat exchange with the wall. The authors succeeded in setting up a linearized differential equation, which describes the motion of the gas. The sclutions were checked by means of data experimentally determined by B. S. Pezovan at the MEI, where the local heat exchange in the case of a turbulent flow was investigated. The thin-walled tubes had a diameter of 15.95 mm, and a length, which amounted to the 29.5-fold of the diameter. The temperature of the air flow was changed between 150 and 400 K, whereas the wall temperature was kept constant at 300 K. As may be seen from the comparison of the results, the relations of the hydrodynamic theory for the heat exchange

Card 1/2

85433

The Problem of Heat Exchange in a Tube at High Air Velocities

S/170/60/003/011/004/016 B019/B056

within the Mach number range of from '.5 to 3 are correct and may be used for practical calculations. There are ! figure and 5 Soviet references.

ASSOCIATION:

Moskovskoye otdeleniye Tsentral'nogo kotloturbinnogo

instituta im. I. I. Polzunova (Moscow Branch of the Central

Steam Turbine Institute imeni I. I. Polzunov).

Vsesoyuznyy nauchno issledovatel skiy institut kislorodnogo mashinostroyeniya g. Moskva (All Union Scientific Research

Institute of Oxygen Apparatus and Machinery Moscow)

SUBMITTED:

May 16, 1960

Card 2/2

USANOV, V. V. AND TSIKLAURI G. V.

"On The Analytical Determination of Effective Surfaces in Channels at the Presence of Heat Transfer and Friction."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

USANOV, V. V. and TSIKLAURI, G. V.

"The problem of the analytical determination of the effective surfaces in channels involved with heat-exchange and friction."

Report presented at the 1st All-Union Conference on Heat- and Mass-Exchange, Minsk, BSSR, 5-9 June 1961.

113349

5/800/62/000/005/001/002 E202/E492

26.276c author:

\_Usanov, V.V., Engineer

TITLE:

Heat exchange and resistance in axially summetric nozzle working at slightly supersonic velocities.

SCURCE:

vsesoyuznyy nauchno-issledovatel skiy institut kislorodnogo mashinostroyeniya. Trudy. no.5. koscow, 1962. Apparaty i mashiny kislorodnykh

ustanovok. 61-83

TEXT: The author aims at extending the applicability of the hydrodynamic heat exchange theory (hhtt) to the region of slightly supersonic velocities. An internal setting of experiment is selected in which a long axially symmetric divergent duct (nozzle) cooled from outside by boiling water is chosen. The cross-section of duct is increasing very slowly to prevent sudden velocity jumps. Pressure and temperature are measured at various points along the axis of the duct and at the outer wall respectively, in addition to mass flow measurements, and measurements of the vapour issuing from the cooling chamber surrounding the duct. The theory is developed from first Card 1/2

S/800/62/000/005/001/002 E202/E492

Heat exchange and resistance ...

principles by relating generalized Bernoulli's equation, mass flow, braking temperature, equation of state and heat balance to BET relation. The latter links the coefficient of hydrodynamic resistance  $\zeta$  to the coefficient of heat transfer  $\alpha$ . A detailed analysis of theoretical and experimental data are given. It is concluded that BET may be applied to velocity regions of 1.10 to 1.55  $\lambda$ , with an average value of Re = 7.33 x 105 for braking temperature and 8.55 x 105 for wall temperature. HHET may be applied as a basis for duct flow calculations in the form St =  $\zeta$ /8. The work was directed by Professor A.A.Gukhman and Candidate of Technical Sciences A.F.Gandel'sman. There are 8 figures and 2 tables.

Card 2/2

L 11074-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD/JG ACCESSION NR: AP3001379 5/0148/63/000/005/0156/0161

AUTHOR: Mal'tseva, G. K.; Postnikov, V. S.; Usanov, V. V.

Internal friction of Cuan and Cu sub 3 Au alloys

IVUZ. Chernaya metallurgiya, no. 5, 1963, 156-161 SOURCE:

TOPIC TAGS: internal friction, CuAu alloy, Cu sub 3 Au alloy, reorganization of atoms, bond energy, hetero atoms, activation energy, peak properties

ABSTRACT: The internal friction of CuAu and Cu sub 3 Au alloys was studied during cooling in order to determine its peak properties. It is assumed that temperature change reflects the kinetics of the regulation processes. If an hypothesized tolerance for the interaction between internal friction and process regulation is correct, it is possible to compute from isothermic curvature, the time of relaxation of the system to a thermodynamically stable state. From examination of frequency of fluctuation of the peak, displacing toward the high temperatures and decreasing in size, it is inferred that the processes which cause peaks in internal friction apparently involve a reorganization of atoms during regulation. Thus the bond energy of hetero atoms is somewhat greater than that of the uniform atoms. The experimentally determined value for activation energy reflects this fact. Orig. art.

USANOU, U.U.

AID Nr. 987-8 11 June

POSSIBLE SOLUTIONS OF THERMODYNAMIC EQUATIONS FOR VISCOUS GAS FLOW WITH HEAT TRANSFER (USSR).

Usanov. V. V. Inzhenerno-fizicheskiy zhurnal, no. 4, Apr 1963, 22-26.
S/170/63/000/004/003/017

A system of equations in terms of gasdynamic influence coefficients, describing a one-dimensional gas flow with allowance for friction and heat transfer through the wall, is considered. Possible methods of solving the equations are discussed. It is shown that in case of intensive heating the effect of heat transfer on the friction factor must be taken into consideration.

[PV]

Cerd 1/1

AUTHOR: Gukhman, A. A.; Gandel'sman, A. F.; Naurits, L. N.; Usanov, V. V.

TITLE: Characteristic features of supersonic flows directly adjoining the transonic region

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 6, 1963, 37-44

TOPIC TAGS: transonic flow, supersonic nozzles, heat transfer, hydrodynamic theory

ABSTRACT: The relationship between heat transfer and hydrodynamic resistance in the transonic region of a gas flow has been investigated experimentally using a test section consisting of a water-cooled nozzle. The following parameters were measured: air-flow rate, static pressure along the nozzle length, stagnation temperature along the cross section before the test section, outside wall temperature of the nozzle, and amount of condensate. Thirteen test runs make

**Card** 1/2

L 10383-63 ACCESSION NR: AP3003046

covering three basic regimes for the temperature ranges 547.0-548.5K, 629.5-630.5K, and 698.5-699.0K. The results obtained are given in the form of graphs showing pressure and heat-flux distribution, temperature variations, distribution of the coefficient of hydraulic resistance, and of the Stanton number. It is shown that the passage through transonic velocity is accompanied by a disturbance in the normal form of the relationship between the intensity of heat transfer and the hydraulic resistance; beginning with the value of the thermal conductivity of the wall of the nozzle, lambda = 1.35, the basic relationship of the hydrodynamic theory of heat transfer can be applied with accuracy sufficient for practical engineering problems. Orig. art. has: 5 figures, 12 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 03Apr63

DATE ACQ: 22Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 007

OTHER: 000

ph/se/ Card 2/2

Internal friction in binary ordered alloys with a face-centered cubic lattice. Fiz. met. i metalloved. 16 no.2:302-309 Ag '63.

(MIRA 16:8)

1. Voronezhskiy politekhnicheskiy institut i Kelerovskiy pedagogicheskiy institut.

(Alloys-Metallography) (Crystal lattices)
(Internal friction)

USANOV, V.V., inzh.; Prinimali uchastiye: NAURITS, L.N., inzh.; TSIKLAURI, G.V.; SHISHOV, Ye.V.; VSEKHSVYATSKIY, V.N.; tekhnik; PONOMAREVA, T.A.; tekhnik; SHCHERBAKOV, V.D.; tekhnik; SPESIVYKH, A.F., tekhnik

Heat exchange and resistance in an axisymmetric nozzle at low supersonic speeds. Trudy VNIIKIMASH no.5:61-83 '62. (MIRA 18:3)

# "APPROVED FOR RELEASE: 03/14/2001

### CIA-RDP86-00513R001858110015-1

L 42442-65 EWT(1)/EPA(s)-2/EWT(m)/EWA(d)/T/EWP(t)/EPA(bb)-2/EWF(z)/EWA(c)/EWP(b) Pt-7 IJP(c) JD UR/0058/65/000/002/E103/E103

SOURCE: Ref. zh. Fizika, Abs. 2E794

39

AUTHOR: Antonov, I. V., Unanov, V. V.; Rodionov, A. A.

TITLE: Time dependence of <u>magnetization</u> on the time and recrystallization

CITED SOURCE: Uch. zap. Kemerovsk. gos. ped. in-t, vyp. 7, 1963, 87-89

TOPIC TAGS: time dependence, magnetization, recrystallization, amagnetic structure, thermomagnetic working, magnetic alloy

TRANSLATION: It is shown experimentally that the recrystallization occurring during the thermomagnetic working of nickel, iron, 65-permalloy, 79-permalloy, perminvar, and permendur exerts practically no effect on the formation of the magnetic texture in these substances.

SUB CODE: EM, MM

ENCL: 00

Card 1/2 cc

L 13277-65 EMT(1)/EMP(n)/EMT(m)/EMP(w)/EFF(n)-2/EMA(d)/EFF(e)/EPR/T/EMP(t)/FCS(k)/EPA(bb)-2/EMP(b)/EMA(1) Pd-1/Pr-4/Ps-4/Pu-4 JD/WM

ACCESSION NR: AP4047817 S/017:/64/000/010/0003/0005

AUTHOR: Usanov, V. V.

TITLE: Relation between heat transfer and friction in the trans mic regime

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 10, 1964, 3-5

TOPIC TAGS: transonic flow, heat transfer, hydrodynamic theory

ABSTRACT: A generalized relation of the hydrodynamic heat-transfer theory for the transonic region is derived. It is shown that such a relation contradicts the conditions of continuous transition through the velocity of sound. Based on the general velocity reversal effect equation, the relation between heat transfer and friction in the transonic regime is given by

 $\left[\frac{dL_r}{dQ}\right]_{k=1} = -\frac{k-1}{k} \left[1 - \frac{4R'/R}{(k+1)Q'/Q}\right]_{k=1}$ 

for a variable section channel. Generalizing the hydrodynamic heat transfer theory, the relation between  $\xi$  and  $\xi_p \equiv 8 \mathrm{St}$  is derived in the form

 $\frac{\zeta}{\zeta_{p}} = \frac{k+1}{2k} \left[ 1 - \frac{T_{w}}{T_{0}} \right] \left[ 1 - \frac{4}{(k+1)} \frac{R'Q}{RQ'} \right] \sqrt{1 + R''}$ 

Card 1/3

L 13277-65

ACCESSION NR: AP4047817

which for a straight tube becomes  $\frac{\zeta}{\zeta_p} = \frac{k+1}{2k} \left[ 1 - \frac{T_w}{T_0} \right]$ 

This shows that the generalized hydrodynamic heat transfer theory 4/5 p = 1 contradicts the condition of continuous transition through M = 1. The curve in Fig. 1 on the Enclosure based on experimental data by A. A. Gukhman, A. F. Gandel'sman, L. N. Naurits, and V. V. Usanov (IFZh, No. 6, 1963) shows that the value of 4/5 p near the throat drops sharply. The last equation given represents the lower limit for cylindrical tubes with heat transfer through the channel walls at a fixed temperature factor. Orig. art. has: 7 formulas and 2 figures.

ASSOCIATION: none

SUBMITTED: 05Ju163

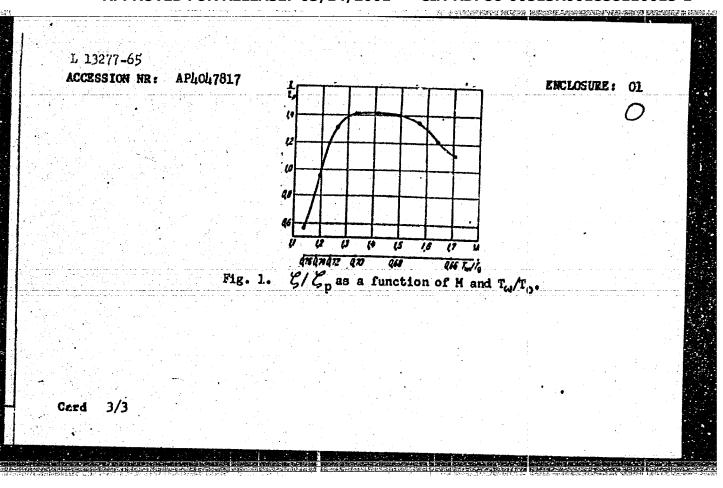
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OTHER: 000

Card 2/3



L 17520-65 ENT(m)/ENP(w)/ENA(d)/T/ENP(t)/ENP(b) ASD(m)-3/SSD/APNL/AFETR ACCESSION NR: AP4049069 JD/HW S/0148/64/000/011/0149/0154

AUTHOR: Postnikov, V. S.; Usanov, V. V.; Sharshakov, I. M.

TITLE: Effect of heat treatment on physical and mechanical properties of austenitic-martensitic steels

SOURCE: IVUZ. Chernaya metallurgiya, no. 11, 1964, 149-154

TOPIC TAGS: austeritic martensitic steel, precipitation hardenable steel, internal friction, resistivity, structure property

ABSTRACT: Five austenitic-martensitic stainless steels (see Table 1 of the Enclosure) were studied by measuring their internal friction and resistivity on cooling from 700—1200C and, in some cases, on / heating in an attempt to determine the effect of annealing temperature on the character of structural changes and mechanical properties. The temperature dependence of the internal friction and resistivity of steels A, B, C, and E was found to follow the same pattern (see Fig. 1 of the Enclosure). No peaks were observed on internal friction-temperature or resistivity-temperature curves for steel D which, unlike the rest of the steels, had a fully

Card 1/4

L 17520-65

ACCESSION NR: AP4049069

austenitic structure after annealing and air cooling. Temperatures of the peaks of internal friction coincide with those of resistivity peaks and the M temperatures for A, B, C and E steels. The \_vel of internal friction at room temperature drops continuously with annealing temperature increased up to 850-1000C and rises sharply with further increases of temperature. The latter increase is explained by an increased stability of austenite and by some changes in δ-ferrite, apparently a precipitation of σ-phase on the γ-δ interface. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Voronezhskiy polytekhnicheskiy institut (Voronezh Polytechnic Institute)

SUBMITTED: 20Apr64 ENCL: 02 SUB CODE:

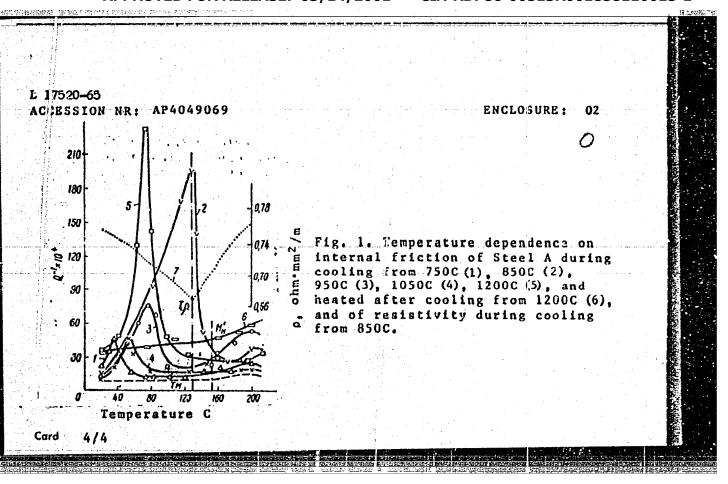
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Card 2/4

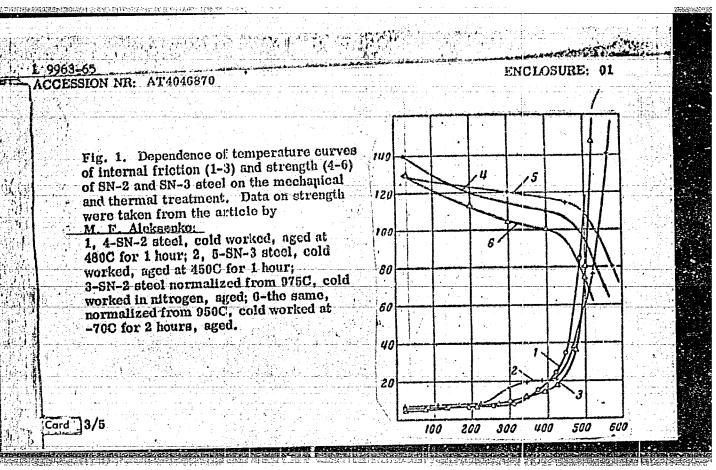
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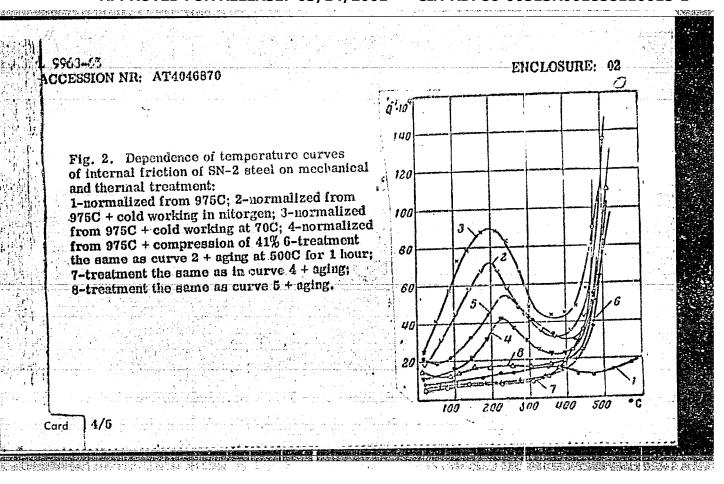


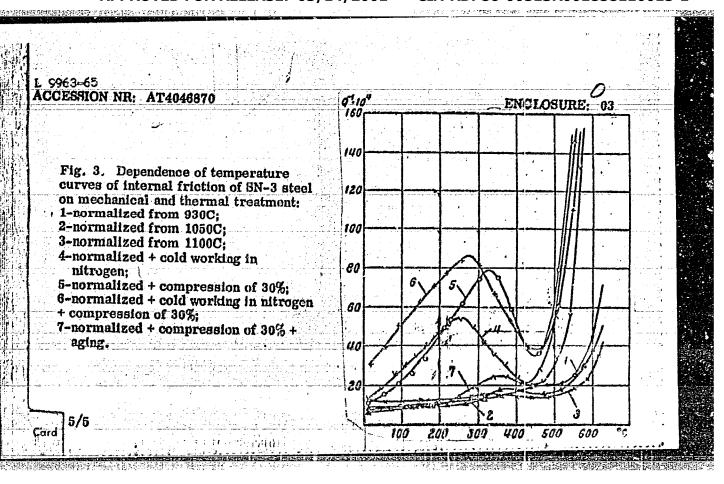
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	"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001858110015-1
	T 9963-65 ENT(m)/1/ENP(b) MIN/ID/MLK ACCESSION NR: AT4046870 S/0000/64/000/000/0367/0357
	AUTHOR: Postnikov, V. S., Gorshkov, G. A., Zolotukhin, I. V., Sharshakov, I. M., 3 Usanov, V. V.
	TTTLE: Effect of different kinds of treatment on some properties of SN-2 and SN-3 steel  SOURCE: AN SSSR, Nauchny'v sovet po probleme, zhazoprochny'kh splavov.  Issledovaniya staloy i splavov (Studies on steels and alloys). Moscov:, IEd-vo Hauka,  1964, 367-375
	TOPIC TAGS: steel structure, steel crystallization, normalizing, steel strength steel internal friction, steel cold working, stainless steel
	ABSTRACT: High-strength stainless steels of the transient austenitic-martensitic class are widely used. Since they are between the austenitic and martensitic grades their properties may be changed with ease. In the present article, the effects of normalizing, cold working and aging on SN-2 and SN-3 steels are considered. The chemical composition of the steel, supplied by a plant in Voronezh, was standard. Laternal friction was investigated by a
el en	pendulum and on a device designed by V. V. Usanov and I. M. Sharshikov for samples pendulum in diameter and 60 mm long. Microhardness was determined on the PMT-3 device.
, Ca	d 1/5

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imiting strength on the M nicroscope. The data ar	P-0.5 machine,	ing the microstruction in Figs. 1-3	of the Enclosure.	The lowest	` -
nicroscope. The data are strength and microhardne	e tabilated and bi	after normalizing	the highest after	additional	. ·
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reatment by cold working and a lower strength at hi	gher temperature	s. At 450C, the s	ittengin aropa sua	malizing with	
nternal friction changes	in the opposite wa	y. The naturing	caused by disinteg	ration of	
further cold working lead	g to a decrease in	I III CE INC. I E CONTO	rength at room ten	peratures.	ā,
markanaita and formation	of a carpide with	an increase in ou			
martensite and formation	of a carbide with 2 steel shows that	an increase in so	rmation begins nea	er 480C and	
martensite and formation Microscopic study of SN-	2 Steel Shows that	thed-y transfor	urrence of this inc	rease is not	
martensite and formation Microscopic study of SN- ends near 750C, causing	a rise in internal	the -Y transfor friction. The occ	urrence of this inc for SN-2 steel dep	erease is not ends to some	÷
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GANDELISMAN, A.F., kand. tekhn. nauk; NAURITS, L.N., inzh.; NSAROV, 7.7., inzh.

Studying heat exchange and resistance at near-sonic speeds. Tridy
VNIIKIMASH no.9:125-137 165.

(Mira 18:6)

SERNOY, V.V., inch.

Flow through nonic specia in channels with uniform mass rection under the offset of host exchange and friction. Trusy WINTALES no.9:139-143 165.

(MIRA 18:6)