YUNEVICH, D.P., kand. tekhn. nauk; CHERNENOK, V.Ya., inzh.

Deep subsurface drainage of floodland peat bogs. Gidr. i mel. 16 no.7:47-54 Jl '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii imeni A.N. Kostyakova.

YUNEVICH, V. I.

- USSR/Plant Physiology. Photosynthesis I

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58178

Author : Shlyk A. A., Godnev T. N., Lynkhnovich Ya. P., Rotaru N. N., Yunevich V. I.

Inst : Institute of Biology, Academy of Sciences Belorussian SSR

Title : A Study of the Restoration of Components of Chlorophyll during its Accumulation

Orig Pub : Byul. In-ta biol. AN BSSR, No 2, 1956, (1957) 65-71

Abstract : The investigation of the restoration of chlorophyll in the shoots of Ceratophyllum demersum L. was carried out under conditions of its continued accumulation, with the help of marked atoms. In calculating the relative specific activity of chlorophyll the authors assumed that dicar-

- USSR/Plant Physiology. Photosynthesis I

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58178

Abstract : bonic organic acids are the immediate predecessors of chlorophyll. The preliminary data which were obtained point to the greater probability of the hypothesis of the subsequent biosynthesis of chlorophyll b from chlorophyll a, as opposed to the theory of their parallel formation.

YUNEVICH, V.I.

SH'YK, A.A.; GODNEV, T.N.; LYAKHNOVICH, Ya.P.; ROTFARB, R.M.; YUNEVICH, V.I.

Studying the restoration of chlorophyll components during its accumulation. Biul. Inst. biol. AN BSSR no.2:65-71 '57. (MIRA 11:2)
(Chlorophyll)

1. YUNEYEV, M. V.

2. USSR (600)

"Potentialities of Prospecting Geophysica In the Search for Manganese Deposits in the Southern Urals -- Materials of the All-Union Geological Institute." Geofizika, Collection 12, 1948 (103-125)

9. Meteorologiya i Gidrologiya, No. 3, 1949.
[redacted] Report U-2551. 30 Oct 52

YUNG, G., Cand Tech Sci--(diss) "Effect of ~~section~~ trains on the traffic capacity of a section." Kos, 1958. 15 pp (Min of Railways. Kos Transport-Econom Inst), 110 copies (KL,26-58,113)

USSR

The effectiveness of phosphobacterin on [illegible] soils of the Kirov province. L. A. Yang, [illegible] Selection Sta.). *Zemledelie* [illegible] culture preps carrying 200 million organisms [illegible] added in liquid or dry form (250 g. of culture [illegible] the P availability and raised the yield in 75 [illegible]

Soils with appreciable quantities of org. matter [illegible] more favorably. When placed in a [illegible] *Azotobacter* flora increased. [illegible]

YUNG, L. A.

SHTINA, E.A.; YUNG, L.A.

Use of soil algae in combination with bacterial fertilizers. Agrobiologiia no.3:424-429 My-Je '63. (MIRA 16:7)

1. Kirovskiy sel'skokhozyaystvennyy institut.
(Soil inoculation) (Algae)

YUNG, P.F.

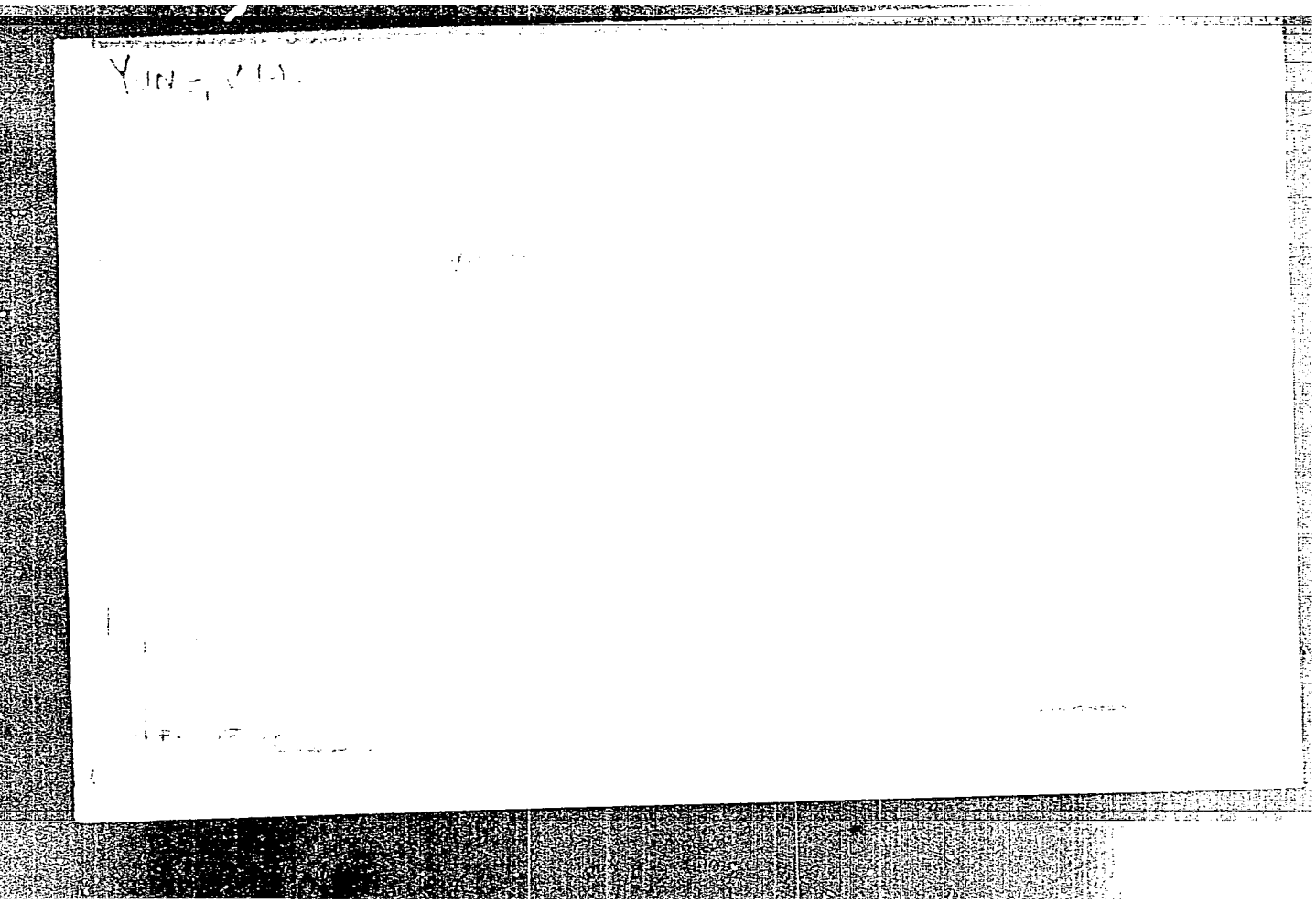
Effectiveness of organomineral fertilizers. Agrobiologiia no.1: 95-98 Ja-F '60. (MIRA 13:5)

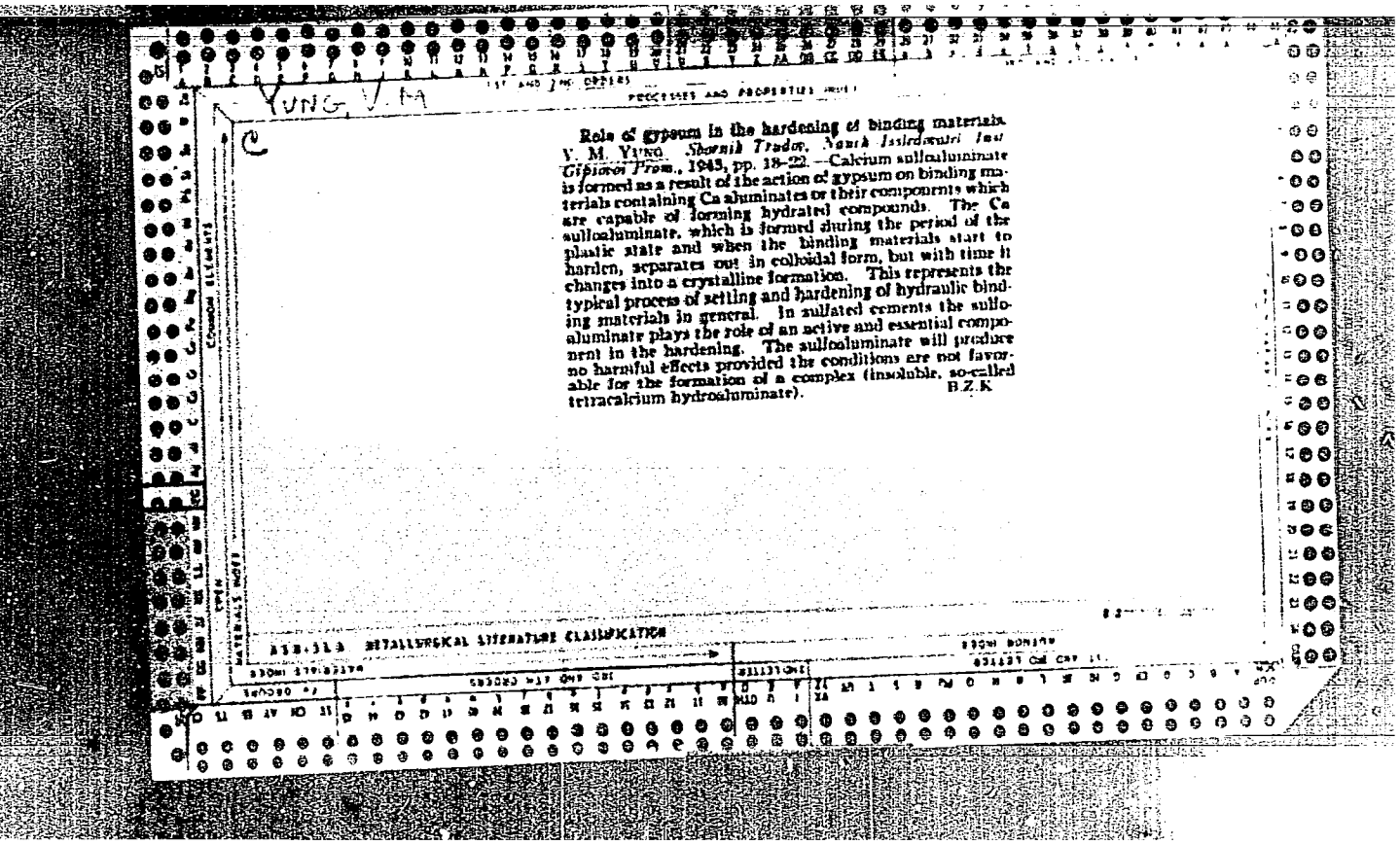
1. Falenskaya selektsionnaya stantsiya Nauchno-issledovatel'skogo instituta sel'skogo khozyaystva severo-vostochnykh rayonov.
(Field crops--Fertilizers and manures)

YUNG, P.F.

Results of studies on organic-mineral fertilizers. Zemledelie 25 no.9:59-65 S '53. (MIRA 16:9)

1. Kirovskiy sel'skokhozyaystvennyy institut.
(Fertilizers and manures)





YUNG, V. N.

Role of gypsum in the hardening of binding materials. V. M. YUNG. *Sbornik Trudov, Nauch Issledovatel Inst Gipsovoi Prom.*, 1945, pp. 18–22.—Calcium sulfoaluminate is formed as a result of the action of gypsum on binding materials containing Ca aluminates or their components which are capable of forming hydrated compounds. The Ca sulfoaluminate, which is formed during the period of the plastic state and when the binding materials start to harden, separates out in colloidal form, but with time it changes into a crystalline formation. This represents the typical process of setting and hardening of hydraulic binding materials in general. In sulfated cements the sulfoaluminate plays the role of an active and essential component in the hardening. The sulfoaluminate will produce no harmful effects provided the conditions are not favorable for the formation of a complex (insoluble, so-called tricalcium hydrosulfoaluminate).

B.Z.K

ACC NR: AP6035837 SOURCE CODE: UR/0413/66/000/020/0041/0041

INVENTOR: Berezinskiy, V. I.; Vol'fenzon, M. N.; Zakharov, G. A.; Il'in, A. G.; Pavlova, Ye. A.; Skachkov, A. M.; Shifrin, M. Sh.; Eydlin, I. I.; Yung, V. N.

ORG: none

TITLE: System for automatic regulation of the steam-main operation of a marine turbine unit. Class 14, No. 187041

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 41

TOPIC TAGS: turbine, steam turbine, engine turbine system, marine engine, marine engineering, pressure regulation, automatic regulation

ABSTRACT: An Author Certificate has been issued for a system for the automatic control of steam-main operation in marine-turbine units with steam takeoffs connected to units requiring dissimilar pressure, maintained by the use of pressure regulators, and to the cooled-steam circuit. To provide for the regulators' independent operation and to improve their functioning, the pressure regulators are connected parallel to the cooled-steam circuit. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12Jul65/

Card 1/1 UDC: 621.185-225.1-531.8

SHIFRIN, M.Sh., doktor tekhn. nauk; YUNG, V.N., inzh.

Control diagrams of the condensate system in marine steam turbine plants. Sudostroenie 28 no.1:29-34 Ja '62. (MIRA 16:7)

(Steam turbines, Marine)
(Feed water regulation)

GARBER, Ye.D., kand. tekhn. nauk; SOBOLEV, L.G., kand. tekhn. nauk; YUNG, V.N., kand. tekhn. nauk

Extremum characteristics of marine boiler plants. Sudostroenie 30 no.9:19-21 S '64. (MIRA 17:11)

SHIFRIN, M.Sh., doktor tekhn.nauk; YUNG, V.N., inzh.; VOYTETSKIY, V.V., inzh.

Selecting a type of feedback in regulators of marine power plants.
Sudostroenie 29 no.10:22-26 O '63. (MIRA 16:12)

YUNG, YE. YE.

"Mechanism of Augmentation effect caused by adding Zn Salts to Thyrotropic Extracts." Dok. AN, 29, No. 8-9, 1940; Dept. of Development Dynamics of the Organism. Saratov State Univ.; c1940-

YUNG, Z.

CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Organic Substances E-3

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7721

Author : Yung Z.
Inst : ~~Not Given~~
Title : Reactions with Xanthydrol. I. The Photometric Determination of Reserpine

Orig Pub : Ceskosl. farmac., 1957, 6, No 6, 299-302

Abstract : 50-250 γ of reserpine (I) is dissolved in 5 ml of freshly prepared reagent (40 mg of xanthydrol is dissolved in a mixture of 100 ml of glacial CH_3COOH and 1 ml of con. HCl). A test tube containing a mixture of the reagent and the solution being analyzed is stoppered with a cotton plug and immersed for 15 minutes into a boiling water bath. The colored mixture is cooled in ice and photometric readings taken at 515 mμ. The color is stable for ≥5 hours. Protoveratrine, the methyl ester of phenyl-α-piperidylacetic acid, hexamethonium and 1, 4-dihydrazinophthalazine do not interfere with the determination of I. From colored tablets I is extracted first

Card : 1/2

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7721

with chloroform from a saturated $NaHCO_3$ solution. From tablets with a small amount of I and containing additional material which adsorb the alkaloid is extracted with chloroform from a 2% tartaric acid solution, into which the powdered sample has been introduced. If the tablets contain dyes also, the chloroform extract is washed beforehand with a $NaHCO_3$ colution. To prevent the formation of phosgene, alcohol is added prior to the evaporation of the $CHCL_3$.

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YUNG [Z.]

CZECHOSLOVAKIA / Chemical Technology. Drugs. Vitamins. Antobiotics. H

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74973.

Author : Yungs
Inst : Not given.
Title : Reactions with Xanthydrol. Photometric Determination of Yohimbine.

Orig Pub: Ceskosl. farm., 1957, 6, No. 8, 436-437.

Abstract: In the reaction between yohimbine (I) and xanthydrol (II), a color is developed due to the presence of indol in I. The color is similar to the one obtained from the reaction of II with Reserpine (Communication I, see: R. Zh. Khim., 1958, 7721). A solution of I in an organic solvent is evaporated to dryness on a water bath and to it is added 5 ml of the reagent (a solution of 40 mg of II in a mix-

Card 1/2

CZECHOSLOVAKIA / Chemical Technology. Drugs. Vitamins. Antobiotics.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74973.

Abstract: ture of 100 ml of glacial acetic acid and 1 ml of 35% HCl). The ingredients are mixed, the test tube is stoppered with a cotton plug and is placed into a boiling water bath for 15 minutes, after which time the tube is cooled in an ice bath, and is then kept at 18-20°C. The photometric readings are taken at 515mμ in a one cm. cuvette using a S 53 filter. The color is stable for ≥ 5 hrs. For drug analysis, powdered tablets (with ~ 5mg of I) are shaken with 70 ml of 96% ethanol, diluted with it to 100 ml volume and filtered. Injection preparations, taken in an amount equivalent to 5mg. of I, are diluted directly with 96% ethanol to 100 ml volume. 2 ml of the solution is used for the analysis.

Card 2/2

IUNGA, IAVGENII

IUNGA, EVGENII. Vykhod v okean. [Moskva] Voen. izd-vo, 1946. 137 p. DLC: G630.R819

SO: LC, Soviet Geography, Part I, 1951, Uncl.

YUNGA, Yevgeniy Semenovich; TARSKIY, Yu.S., red.; ANIKINA, R.F., tekhn.red.

[Always moving; true stories of the sea] Vsegda v puti; morskie byli. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 445 p. (MIRA 13:8)

(Voyages and travels)

BARKHATOV, G.V.; VASIL'YEV, V.G.; GRISHIN, G.L.; KARASEV, I.P.; KISELEV, S.I.; KRAVCHENKO, Ye.V.; MORDOVSKIY, V.T.; TIKHOMIROV, YU.P.; CHEPIKOV, K.R.; YUNGANS, S.M., ved.red.; FEDOTOVA, I.G., tekhn.red.

[Oil and gas in the eastern Siberian Platform] Neftegazonosnost' Vostochno-Sibirskoi platvormy. Pod red. K.R. Chepikova. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 130 p. (MIRA 12:1)

1. Chlen-korrespondent AN SSSR (for Chepikov).
(Siberian Platform--Gas, Natural)
(Siberian Platform--Petroleum)

BARANOV, I.G., red.; GLUSHKO, V.V., red.; MUROMTSEV, A.S., red.; YUNGANS, S.M., vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Problems in prospecting for and the recovery of petroleum and gas within the Ukraine; reports at an out-of-town session of scientists of the All-Union Research Institute for Geological Petroleum Prospecting and the All-Union Instrument Research Institute] Voprosy poiskov, razvedki i dobychi nefti i gaza na territorii USSR; doklady na vyezdnoi sessii uchenykh sovetov VNIGNI i VNII, prokhodivshei v g. L'vove v mae 1957 g. Pod red. I.G.Baranova, V.V.Glushko i A.S.Muromtseva. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 282 p. (MIRA 12:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut.
(Ukraine--Petroleum--Geology)

LADYZHENSKIY, Nikolay Romanovich, prof.; ANTIPOV, Viktor Ivanovich; PORFIR'YEV, V.B., akademik, red.; YUNGANS, S.M., vedushchiy red.; VORONOVA, V.V., tekhn. red.

[Geology, and gas and oil potentials of the Soviet cis-Carpathian region] Geologicheskoe stroenie i gazoneftenosnost' Sovetskogo Predkarpat'ia. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 265 p. (MIRA 14:10)

1. Akademiya nauk USSR (for Porfir'yev)
(Carpathian Mountain region—Petroleum geology)
(Carpathian Mountain region—Gas, Natural—Geology)

SVISHCHEV, Mikhail Fedorovich; ZUBOV, I.P., kand. geol.-miner. nauk, red.; YUNGANS, S.M., ved.red.; VOROB'YEVA, L.V., tekhn. red.

[Geology, and oil and gas potentials of Orenburg Province] Geologicheskoe stroenie i neftegazonosnost' Orenburgskoi oblasti. Moskva, Gostoptekhizdat, 1961. 227 p. (MIRA 15:6)
(Orenburg Province—Petroleum geology)
(Orenburg Province—Gas, Natural—Geology)

SULTANOV, Sagday Akhmadiyevich; KHAR'KOV, Vladimir Afanas'yevich; DAKHNOV, V.N., doktor geol.-miner. nauk, red.; YUNGAS, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Controlling the movement of water-oil contacts and oil-bearing contours]Kontrol' za prodvizheniem vodo-neftianogo kontakta i konturov neftenosnosti. Pod red. V.N.Dakhnova. Moskva, Gostoptekhizdat, 1962. 166 p. (MIRA 15:12)
(Oil reservoir engineering)

POLSHKOV, Mikhail Konstantinovich; KUDYMOV, B.Ya., red.; VOYUTSKIY, V.S., red.; YUNGANS, S.M., ved. red.; VORONOVA, V.V., tekhn. red.

[Basic problems concerning seismic prospecting apparatus; transcient processes and resolving power]Osnovnye voprosy seismorazvedochnoi apparatury; ustanavlivaiushchiesia protsessy, razreshaiushchaia sposobnost'. Moskva, Gostoptekhizdat, 1962. 335 p. (MIRA 15:11)
(Seismic prospecting--Equipment and supplies)

POLSHKOV, Mikhail Konstantinovich; KUDYMOV, B.Ya., red.; VOYUTSKIY, V.S., red.; YUNGANS, S.M., ved. red.; VORONOVA, V.V., tekhn. red.

[Basic problems of seismic prospecting apparatus; steady processes and capacity to solve problems]Osnovnye voprosy seismorazvedochnoi apparatury; ustanavlivaiushchiesia protsessy, razreshaiushchaia sposobnost'. Moskva, Gostoptekhizdat, 1962. 335 p. (MIRA 15:10)

(Seismic prospecting--Equipment and supplies)

SEMIKHATOVA, S.V., prof., red.; YUNGANS, S.M., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Stratigraphic diagrams of Paleozoic sediments] Stratigraficheskie skhemy paleozoiskikh otlozhenii; trudy. Moskva, Gostoptekhizdat. Vol.3. [Carboniferous system]Kamennougol'naia sistema. Pod red. S.V.Semikhatovoi. 1962. 321 p. (MIRA 15:5)

1. Soveshchaniye po utochneniyu unifitsirovannykh stratigraficheskikh skhem poleozoya Volgo-Ural'skoy neftegazonosnoy provintsii, Moscow, 1960.

(Geology, Stratigraphic)

DAKHNOV, V.N., doktor geol.-miner. nauk; KHOLIN, A.I., kand. geol.-miner.nauk; PESTRIKOV, A.S.; GALUZO, Yu.V.; AFRIKYAN, AN.; YUDKEVICH, R.V.; POPOV, V.K.; POZIN, L.Z.; LARIONOV, V.V.; VENDEL'SHTEYN, B.Yu.; GORBUNOVA, V.I.; DZYURAK, M.D.; YEVDOKIMOVA, V.A.; ZHOKHOVA, R.G.; LATYSHEVA, M.G.; MAREN'KO, N.N.; MANCHEVA, N.V.; MOROZOVICH, Ya.R.; OREKHOVSKAYA, Ye.P.; POKLONOV, M.S.; ROMANOVA, T.F.; SEVOST'YANOV, M.M.; TANASEVICH, N.I.; FARMANOVA, N.V.; FEDOROVICH, G.P.; SHCHERBININ, V.A.; ELLANSKIY, M.M.; YANUSH, Ye.P.; YUNGANS, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Using methods of field geophysics in studying gas-bearing reservoirs]Primenenie metodov promyslovoi geofiziki pri izuchenii gazonosnykh kollektorov. Moskva, Gostoptekhizdat, 1962. 279 p. (MIRA 16:2)

(Gas, Natural--Geology)
(Prospecting--Geophysical methods)

KOMAROV, Sergey Grigor'yevich; MUKHER, A.A., retsenzent; YUNGENS, S.M., ved. red.; ZARETSKAYA, A.I., ved. red.; POLOSINA, A.S., tekhn. red.

[Geophysical methods for well surveying] Geofizicheskie metody issledovaniia skvazhin. Moskva, Gostoptekhizdat, 1963. 407 p. (MIRA 17:1)

1. Glavnyy spetsialist Upravleniya geofizicheskikh rabot Glavnogo upravleniya geologii i okhrany nedr pri Sovete Ministrov RSFSR (for Mukher).

MIRCHINK, Mikhail Fedorovich; BABA-ZADE, Baba Kurbanovich[deceased]; GZODEKYAN, Artem Aramovich; GODIN, Yuriy Nikolayevich [deceased]; DENISEVICH, Vladimir Vladimirovich; YUNGANS, S.M., ved. red.; STAROSTINA, L.D., tekhn. red.

[Regularities in the distribution of oil and gas wells] O zakonomernostiakh razmeshcheniia neftianykh i gazovykh mestorozhdenii. Moskva, Gostoptekhizdat, 1963. 120 p. (MIRA 16:9)

(Petroleum geology) (Gas, Natural--Geology)

BURSHTAR, Mikhail Samuilovich; MASHKOV, Igor' Vasil'yevich; TKHVOSTOV, B.A., kand. geol.-miner. nauk, red.; YUNGANS, S.M., ved. red.; VORONOVA, V.V., tekhn. red.

[Conditions governing the formation and characteristics of the distribution of oil and gas pools as revealed by the study in Ciscaucasia and the Crimean steppes] Usloviia formirovaniia i zakonomernosti razmeshcheniia zalezhei nefti i gaza (na primere Predkavkaz'ia i stepnogo Kryma). Moskva, Gostoptekhizdat, 1963. 264 p. (MIRA 16:7)

(Caucasus, Northern--Petroleum geology)
(Caucasus, Northern--Gas, Natural--Geology)
(Crimea--Petroleum geology)
(Crimea--Gas, Natural--Geology)

STETYUKHA, Yevgeniy Ivanovich; YUNGANS, S.M., ved. red.;
STAROSTINA, L.D., tekhn. red.

[Equations covering the correlations between the physical properties of rocks and the depth of their occurrence] Uravneniia korreliatsionnykh sviazei mezhdu fizicheskimi svoistvami gornykh porod i glubinoi ikh zaleganiia. Moskva, Izd-vo "Nedra," 1964. 133 p. (MIRA 17:3)

ACC NR: AP6035893 SOURCE CODE: UR/0413/66/000/020/0130/0130

INVENTOR: Gol'tsman, F.M.; Birman, A. Ye.; Moiseyev, O. N.; Slutskovskiy, A. I.; Bogdanov, V. V.; Yungans, V. Yu.; Kartavtsev, S. M.; Nakhamkin, S. A.

ORG: None

TITLE: A device for producing summation tapes based on the method of controlled directional reception of seismic waves. Class 42, No. 187333

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 130

TOPIC TAGS: seismic wave, seismography, data analysis, electronic equipment

ABSTRACT: This Author's Certificate introduces: 1. A device for producing summation tapes based on the method of controlled directional reception of seismic waves. The installation consists of a magnetic recorder, amplifiers and a multichannel summation unit. The speed of seismogram analysis is increased by basing the multichannel summation unit on delay lines equal in number to the channels to be added. Taps are made from each line corresponding to the various directions of summation, as well as taps from the various delay lines corresponding to one and the same direction of summation. These taps are connected through decouplers and resistors placed at the inputs of the summation amplifiers to filters with their outputs connected to recording galvanometers. 2. A modification of this device in which the winding of the step

Card 1/2 UDC: 550.340.8

ACC NR: AP6035893

switches which reverse the magnetic recording heads is connected to a contact mechanism on the magnetic recoring drum. 3. A modification of this device in which scatter in the amplification factors of the summation amplifiers is compensated by making the resistors at the input to these amplifiers in two sections, one of which is a potentiometer. 4. A modification of this device in which summation quality is improved by using an automatic amplification control system after the frequency filters during playback.

SUB CODE: 09/ 08/ SUBM DATE: 23Apr65

Card 2/2

ACC NR: AP7002979 (A) SOURCE CODE: UR/0413/66/000/024/0077/0077

INVENTOR: Slutskovskiy, A. I.; Bogdanov, V. V.; Yungans, V. Yu.

ORG: None

TITLE: A procedure for making kinematic corrections in analyzing seismic recordings. Class 42, No. 189599 [announced by the All-Union Scientific Research Institute of Geophysical Exploration Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 77

TOPIC TAGS: seismologic instrument, wave analysis, tape recorder, SEISMOGRAPHY

ABSTRACT: This Author's Certificate introduces a procedure for making kinematic corrections in analyzing seismic recordings tape-recorded by the reflected wave method. Time delay is used for improving accuracy during forward or reverse playback of the oscillations. A programmed switch is used for varying the number of links in the electric delay line during transcription of a single channel. This switch is mechanically connected to the rotating axle of the magnetic tape drum. In passing from transcription of one channel to transcription of another, the delay time of each link and of the line as a whole is changed by varying the magnetization current passing through the auxiliary windings of the chokes in the delay line in such a way that corrections are made for any channel by exact formulas in minimum time.

SUB CODE: 08, 09/ SUBM DATE: 29Aug64

Card 1/1 UDC: 550.834

L 15819-66 EWT(1)/EWA(h) GW

ACC NR: AT5028866

AUTHOR: Slutskovskiy, A. I., Yungang, V. Yu.

ORG: none

TITLE: Calculating the characteristics of [illegible] pecting equipment

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'[illegible] metodov razvedki. Prikladnaya geofizika, no. [illegible],

TOPIC TAGS: computer application, seismic [illegible] quency characteristic

ABSTRACT: The authors consider the frequency and phase [illegible] ed in seismic prospecting equipment. The equivalent circ[illegible] assumed to be made up of an infinite number of T-elements [illegible] calculating the frequency and phase response of the m-th [illegible] this type. These formulas are then generalized to a line[illegible] formula is derived for determining the impedance loading

Card 1/2

L 15819-66

ACC NR: AT5027866

...ide is an infinite line. It is shown that ...
...tween the loading conditions for ... infinite ...
...line, especially in the last element. Expressions ...
...lating the real and imaginary parts of the ...
...ay line as well as the frequency and phase ...
...the amplification factor of the preceding ...
...nding the frequency and phase response of ...
...apacitor. Frequency responses were ... plotted ...
...ctual electric delay lines containing ... elements ...
...uency response are given and the theoretical ...
...and a delay of 0.5 usec is compared with the experimental ...
...line with this number of elements. Satisfactory agreement ...
...xperimental and theoretical data. Orig. art. has ... figs.

SUB CODE: 09,08/ SUBM DATE: 00/ ORIG REF: ...

Card 2/2

ACC NR: AP7005645 SOURCE CODE: UR/0413/67/000/002/0094/0094

INVENTOR: Slutskovskiy, A. I.; Bogdanov, V. V.; Yungens, V. Yu.

ORG: None

TITLE: A method for introducing kinematic corrections. Class 42, No. 190595 [announced by the All-Union Scientific Research Institute of Geophysical Exploration Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 94

TOPIC TAGS: seismologic instrument, error correction, circuit delay line, magnetic recording

ABSTRACT: This Author's Certificate introduces a method for input of kinematic corrections during analysis of seismic recordings made on magnetic tape by the reflected wave method. The procedure is based on the use of a multiple-element electrical delay line in which the delay time is controlled by the magnetizing current and the number of elements. To increase accuracy in the introduction of kinematic corrections, the delay of the line is varied during retranscription of the oscillations in one channel by changing the amplitude of the magnetizing current in conformity with the first term in the series of the kinematic correction formula. A programmed switch is used for selecting the matching load impedance at the line output, and the number of elements in the line during retranscription of each channel is selected in proportion to the square of the distance from the point of the blast.

SUB CODE: 08, 09/ SUBM DATE: 29Aug64

Card 1/1 UDC: 550.834

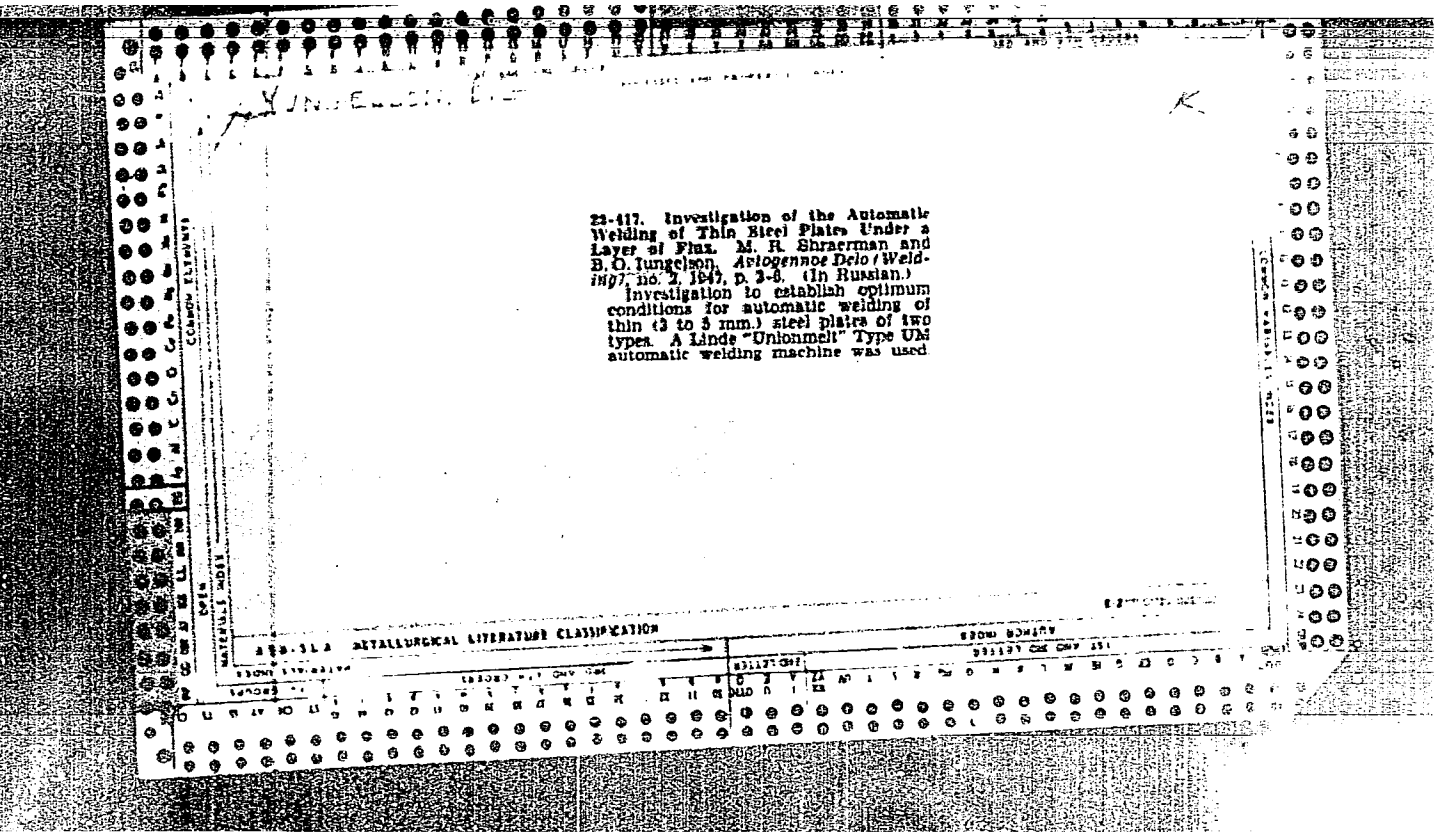
MUZYCHENKO, Nina Mikhaylovna; YURKEVICH, Tat'yana Yakovlevna; BAKIROV, A.A., prof., glav.red.; RYABUKHIN, G.Ye., prof., red.; USPENSKAYA, N.Yu., prof., red.; ZHDANOV, M.A., prof., red.; DOLITSKIY, V.A., dots., red.; SPIKHINA, A.M., kand. geol. nauk, red.; YUDIN, G.T., kand. geol.-min. nauk, red.; TABASARANSKIY, Z.A., dots., red.; BAKIROV, E.A., dots., red.; BYKOV, R.I., dots., red.; FOMKIN, K.V., kand. geol.-min. nauk, red.; KNYAZEV, V.S., dots., red.; SHIROKOV, V.Ya., st. nauchn. sotr., red.; YUNGAS, S.M., ved. red.; NEVEL'SHTEYN, V.I., ved. red.

[Geological conditions and fundamental characteristics of oil and gas accumulations in the limits of the Epi-Hercynian platform in the south of the U.S.S.R.) Geologicheskie usloviia i osnovnye zakonomernosti razmeshcheniia skoplenii nefti i gaza v predelakh epigertsinskoi platformy iuga SSSR. Pod red. A.A.Bakirova. Moskva, Gostoptekhizdat. Vol.1. [Central Asia] Sredniaia Aziia. 1963. 442 p. Vol.3. [Volga Valley portion of Saratov and Volgograd Provinces] Saratovsko-Volgogradskoe Povolzh'e. 1963. 153 p. (MIRA 17:4)

1. Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti.

SLUTSKOVSKIY, A.I.; YUNGANS, V.Yu.

Calculation of the characteristics of electric delay lines for seismic prospecting apparatus. Prikl. geofiz. no.44:25-43 '65.
(MIRA 18:9)



22-417. Investigation of the Automatic Welding of Thin Steel Plates Under a Layer of Flux. M. R. Shraerman and B. O. Iungelson. *Avtogennoe Delo / Welding*, no. 2, 1947, p. 3-8. (In Russian.)

Investigation to establish optimum conditions for automatic welding of thin (3 to 5 mm.) steel plates of two types. A Linde "Unionmelt" Type UM automatic welding machine was used.

USSR Metallurgy - Welding, Sheet Metal Sep 52

"Semiautomatic Welding of Sheet Metal Construction / Spot Angle Welds," M. R. Shrayerman, B. G. Yungel'son, Engineers, S. B. Petelina, Tech Ed

"Avtomat Delo" No 9, pp 21-24

Considering welding under flux by means of spot angular welds as most effective method for welding penetrable joints of thin-plate constructions, discusses various elements of technology, such as geometrical parameters

232T80

of spot and their dependence on welding conditions, mech properties of spot, selection of spot dimensions and spacing of spots; materials and equipment, prepn for welding, and welding technique. Chief advantage of method is considerable decrease in deformation of constructions to be welded.

232T80

YUNGEL'SON, B. G.

YUNGELSON, B. G., Shrayerman, M. R., and Petelina, S. B.

"Semi-Automatic Interrupted Fillet Welding of Thin Sheet Assemblies"
(Avto. Delo, 1952, 23, Sept., p. 21)

VI

18(7)

AUTHOR: Kokh, B. A., Yungel'son B. G., and Vsevolodov, G. N., Engineers and Bykov, V. A., Candidate of Technical Sciences

SOV/135-59-6-7/20

TITLE: Fatigue Strength of the 08 G D N F L - Cast-Steel Electro-slag Welds

PERIODICAL: Svarochnoye Proizvodstvo, 1959, Nr 6, pp 24-26 (USSR)

ABSTRACT: 08 G D N F L - steel is broadly applied in shipbuilding for large welded parts which are working under dynamic charge. Some of them are joined by electro-slag welds. The authors give the results of the investigations of the strength fatigue of electro-slag welded joints for this kind of steel. The investigation has been carried out on industrial steel constructed as follows: 0.05% C, 0.15% Si, 0.59% Mu, 1.18% Ni, 0.85% Cu. Reference 1 gives the chemical breakdown of 08 G D N F L - steel. The welding was done by an automatic welding torch A-372 M [Ref 2]. Figure 1 demonstrates the micro-structure of the base metal and weld metal formed by Cv-10

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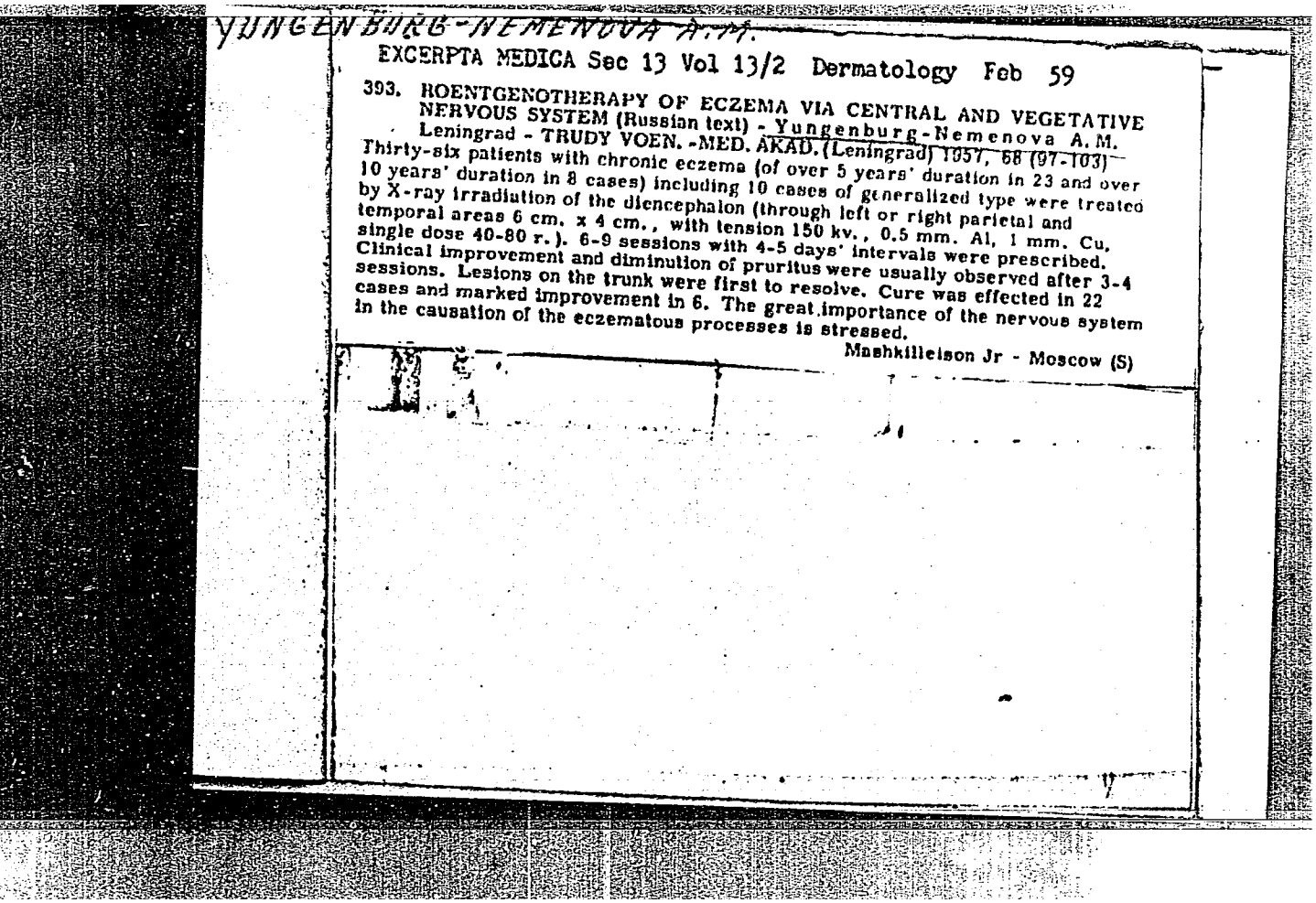
G2 wire. Figure 2 shows the structure temper near the welding zone of the base metal and weld metal. The measurements of the models for investigation of fatigue strength are shown in Figure 3. The skirting of the models has been tested on machines constructed in the "Ship-Building Institute" in Leningrad, [Ref 3]. The article states that the strength fatigue of 08 G D N F L cast-steel at electro-slag welds is not worse than that of other metals. The lack of thermal treatment after welding is not disadvantageous for the fatigue strength of electro-slag weld joints. There are 5 diagrams and 5 Soviet references.

ASSOCIATION: Leningradskiy korablestroitel'nyy institut (Leningrad Shipbuilding Institute) (Vsevolodov, G.N. and Bykov, V.A.) TsNIITS (Kokh, B.A. and Yungel'son, B.G.)



YUNGENBURG-NEMENOVA A.M.

EXCERPTA MEDICA Sec 13 Vol 13/2 Dermatology Feb 59

393. ROENTGENOTHERAPY OF ECZEMA VIA CENTRAL AND VEGETATIVE NERVOUS SYSTEM (Russian text) - Yungenburg-Nemenova A. M. Leningrad - TRUDY VOEN. -MED. AKAD. (Leningrad) 1957, 68 (97-103)

Thirty-six patients with chronic eczema (of over 5 years' duration in 23 and over 10 years' duration in 8 cases) including 10 cases of generalized type were treated by X-ray irradiation of the diencephalon (through left or right parietal and temporal areas 6 cm. x 4 cm., with tension 150 kv., 0.5 mm. Al, 1 mm. Cu, single dose 40-80 r.). 6-9 sessions with 4-5 days' intervals were prescribed. Clinical improvement and diminution of pruritus were usually observed after 3-4 sessions. Lesions on the trunk were first to resolve. Cure was effected in 22 cases and marked improvement in 6. The great importance of the nervous system in the causation of the eczematous processes is stressed.

Mashkilleison Jr - Moscow (S)

YUNGER, S.V.

Effect of graphite coated electrode wire upon the properties of automatically welded 1Kh18N9T steel. Avtom.svar.6 no.2:57-59 Mr-Ap '53. (MLRA 7:5)

1. Stalingradskiy filial Giproneftemasha. (Steel--Welding) (Electrodes)

1. YUNGER, S. V., Eng.

2. USSR 600

4. Petroleum Industry - Equipment and supplies

7. Automatic welding of thick walled oil equipment without chamfering the edges, Avtog. delo, 24, No. 1, 1953.

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

YUNGER, S.V., inzhener

Trolley welding leads for automatic welding installation. Svar. proizv. no.4:25-26 Ap '55. (MLRA 8:9)

1. Stalingradskiy filial Giproneftemasha i zavod imeni Petrova.
(Electric welding)

AUTHORS: Yunger, S.V., Zandberg, S.A. SOV/125-58-11-15/16

TITLE: The Automatic Welding of Reactor Tubes in Carbon Dioxide (Avtomaticheskaya svarka reaktornykh trubok v srede uglekislogo gaza)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 11, pp 90-94 (USSR)

ABSTRACT: The Giproneftemash plant and the Petroleum Machine Building Plant, under the supervision of engineers V.S. Salimon, V.S. Shchekoldin and V.P. Zimin, have developed the mechanized production of "KT-131" reactor tubes with the use of welding in carbon dioxide. Information is given on the devices used including a simple welding stand, a special copying head, a "TS-17M" type tractor and a modernized "GS-500" type generator. The automatic welding in CO_2 of tubes, produces a high quality of seam, and the welding rate is 126 m/hour. The new method provides higher work efficiency and improves work conditions for the operator.

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The Automatic Welding of Reactor Tubes in Carbon Dioxide

There are 2 photos and 3 diagrams.

ASSOCIATION: Stalingradskiy filial Giproneftemasha i zavod Neftyanogo mashinostroyeniya im. Petrova (The Stalingrad Branch of Giproneftemash and the Plant of Petroleum Machine Building imeni Petrov)

SUBMITTED: June 12, 1958

YUNGER, S. V.

25(1) PHASE I BOOK EXPLOITATION SOV/3421

Akademiya nauk UkrSSR, Kiyev, Institut elektrosvarki imeni akademika Ye.O. Patona

Vnedreniye novykh sposobov svarki v promyshlennost', vyp. 2 (Introduction of New Welding Methods in Industry; Collection of Articles, No. 2) Kiyev, Gos. izd-vo tekhn. lit-ry Ukrainskoy SSR, 1959. 194 p. Errata slip inserted. 3,000 copies printed.

Ed.: V. Gartusha; Tech. Ed.: S. Matusevich.

PURPOSE: This book is intended for workers in the welding industry.

COVERAGE: The book contains a discussion of welding techniques and problems by groups of scientists and welders. Much attention is given to problems in the application of new methods of mechanized welding and electro-slag welding. This is the second collection of articles under the same title prepared and published by the Institut elektrosvarki imeni Ye.O. Patona (Institute of Electric Welding imeni Ye.O. Paton). The preface is written by B.Ye. Paton, Academician of the Ukrainian Academy of Sciences and Winner of the Lenin Prize. There are no references.

Kazimirov, A. A. [Candidate of Technical Sciences; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], and V. F. Zabotin [Chief Engineer; Khersonskiy sudostroitel'nyy zavod (Kherson Shipbuilding Plant)]. Automatic Welding in Shipbuilding 124

Vakhnin, Yu. N. [Engineer], B. G. Kasatkin [Candidate of Technical Sciences], N. I. Kakhovskiy [Candidate of Technical Sciences], A. M. Poolsovtsev [Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], S. I. German [Candidate of Technical Sciences, Chief of Welding Laboratory; Khar'kovskiy turbinnyy zavod imeni S. M. Kirova (Khar'kov Turbine Plant imeni S. M. Kirov)], and Z. L. Klimovitskiy, Chief of Welding Section; Bryanskiy mashinostroitel'nyy zavod (Bryansk Machinery Plant)]. Carbon-dioxide Shielded Welding in Production of Steam Turbines 137

Zaruba, I. I. [Candidate of Technical Sciences], and A. G. Potap'yevskiy [Senior Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)]. Introduction of Automatic and Semi-automatic Carbon-dioxide Shielded Welding 148

Medovar, B. I. [Candidate of Technical Sciences], A. G. Potap'yevskiy [Senior Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], F. A. Batis [Senior Engineer], S. V. Yunger, Supervisor of the Welding Laboratory; Stalingradskiy filial Giproneftemasha (Stalingrad Branch of State Design and Scientific Research Institute for Petroleum Machinery)], and S. A. Zandberg [Chief of Welding Office; Stalingradskiy mashinostroitel'nyy zavod imeni Petrova (Stalingrad Machinery Plant imeni Petrov)]. Development and Introduction of New Technique in Automatic Submerged-arc Welding of Two-ply Steel With Stainless Chromium Facing 157

Zvonkov, M.L. [Engineer] D. M. Rabkin [Candidate of Technical Sciences; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], V. A. Verchenko, [Engineer; trest "Prodmontazh" (Production Assembly Trust)], and I. M. Mirosnodskiy [Chief Engineer; zavod "Bol'shevik" ("Bol'shevik" Plant)]. Experience Gained in Welding Containers Made of Aluminum and Its Alloys 173

Asnis, A. Ye. [Candidate of Technical Sciences; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], N. G. Gavrilenko [Engineer], A. V. Prokhorov [Engineer; Zhdanovskiy zavod imeni Il'icha (Plant imeni Il'ich in Zhdanov), and S. V. Yunger [Engineer; Stalingradskiy filial Giproneftemash (Stalingrad Branch of State Design and Scientific Research Institute for Petroleum Machinery)]. High-strength Steels for Weldments 183

AVAILABLE: Library of Congress (TS 227.A359)

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2-3

YUNGER, S. V.

PHASE I BOOK EXPLOITATION SOV/5078

Akademiya nauk URSR, Kiyev. Instytut elektrozvaryuvannya

Vnedreniye novykh sposobov svarki v promyshlennost'; sbornik statey. vyp. 3. (Introduction of New Welding Methods in Industry; Collection of Articles. v. 3) Kiyev, Gos. izd-vo tekhn. lit-ry UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni akademika Ye. O. Patona Akademii nauk Ukrainskoy SSR.

Ed.: N. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in the welding industry.

COVERAGE: The articles deal with the combined experiences of the Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton) and several industrial enterprises in solving scientific and engineering problems in welding technology. Problems in the application of new methods of mechanized welding and electroslag welding in industry are discussed. This is the third collection of articles published under the same title. The Foreword was written by B. Ye. Paton, Academician of the Academy of Sciences Ukrainian SSR and Lenin prize winner. There are no references.

TABLE OF CONTENTS:

15

SOV/135-59-11-19/26

18(5)

AUTHORS: Ruze, D.N., and Yunger, S.V., Engineers

TITLE: Stalingrad Welders Discuss the Problems of Development and Use of Progressive Welding Methods

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 11, pp 41-42 (USSR)

ABSTRACT: In June 1959, the Stalingrad sovnarkhoz, in co-operation with the Oblast' Administration NTO of the Machine-Building and Oil Industries, convened a scientific-technical conference. 250 delegates from different organizations, Institute of Electric Welding imeni Ye.O. Paton, VNIIAVTOGEN, VNIIESO, TsNIITMASh, as well as from local institutes and vuzes participated at the conference. Deputy Chairman of the Stalingrad sovnarkhoz, A.S. Zhikharev, reported on development of welding. The volume of welding should be increased during the next 7 years by 3 times; hence the importance of mechanization and automation of welding processes. The Senior Scientific Worker at the Institute of Electric Welding imeni Ye.O. Paton, B.I. Medovar, told about the work performed at the Institute during recent years. Deputy Chief

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Stalingrad Welders Discuss the Problems of Development and Use of Progressive Welding Methods

Engineer of the VNIIAVTOGEN, V.S. Chernyak, reported on the new effective methods of metal heat-treatment. Scientific Worker of VNIIESO, L.A. Shternin, reported on the new method of friction welding. Further reports were delivered by V.S. Salimon (SNIITMASh) - on carbon dioxide shielded arc welding; S.V. Yunger (SNIITMASh) - on new steels 09G2DT (M) and 16GT (3N) of a high weldability; S.A. Zandberg (Plant imeni Petrov) - on automation of welding work when building equipment used in the oil industry; Ye.I. Dragan (Stalingrad Shipyard) - on submerged arc welding applied to ship-building; Ye.B. Mlinov - on electroslag welding; V.M. Yerofeyev (Stalingrad Tractor Works) - on development of contact welding; F.A. Ratin (SNIITMASh) - on co-operation with the Institute of Electric Welding imeni Ye.O. Paton; V.P. Zimin (Plant imeni Petrov) - on production of ribbed pipes for heat-exchanging devices; P.I. Antonov - on the process of automatic surfacing of rollers used in the rolling-mills at the Plant "Krasnyy Oktyabr'"; V.P. Belousov (Plant imeni Petrov) and V.Ye. Yershov (Plant "Krasnyy

Stalingrad Welders Discuss the Problems of Development of Use of Progressive Welding Methods

Oktyabr'") - on new methods of cutting and heat-treating high-chrome steels. The Conference has proposed selecting the Welding Laboratory of the SNIITMASh as a base laboratory for the Stalingrad sovnarkhoz.

S/184/60/000/006/010/012
A104/A130

AUTHOR: Yunger, S. V., Engineer

TITLE: The use of high-resistant and easily weldable steels in oil refineries and chemical machinery plants

PERIODICAL: Khimicheskoye mashinostroyeniye, no. 6, 1960, 39-40

TEXT: In order to achieve economy of metal and decrease the weight of machines the Stalingradskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (Stalingrad Scientific Research Institute of the Technology of Machinery Construction) in cooperation with the Zhdanovskiy metallurgicheskiy zavod im. Il'icha (Zhdanov Metal Plant im. Il'ich) and the Institut elektrosvarki im. Ye. O. Patona (Electrowelding Institute im. Ye. O. Paton) developed easily weldable 09Г2ДТ (М) [09G2DT (M)] and 16ГТ (ЗН) [16GT (ZN)] steels [Yunger, S. V. - Ref. 1: Sbornik dokladov na respublikanskoy konferentsii po ekonomii metallov, 25 - 28th Jul, 1958; Asnis, A. Ye., Gavrilenko, N. G., Prokhorov, A. V., Yunger, S. V. - Ref. 2: Sbornik statey "Vnedreniye novykh sposobov svarki v promyshlennost' (Symposium of Articles "Adoption of new welding methods by the industry"), Gostekhizdat, UkrSSR, 1959.]

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The use of high-resistant and....

These new steels are alloyed with manganese, silicon and titanium according to an improved method of extraction and deoxidation. Their wear resistance is 25 - 30% higher than that of Ст.3 (St.3), 15K (15K) and 20K (20K) steels. Further advantages are: adequate plasticity, retention of high resilience at negative temperatures up to -70°C and intensitiveness to hammer hardening, notching and aging. 160 mm plates of the above described steels are supplied in accordance with ЧМТУЦНИИЧМ157-59 (ChMTUTsNIIChM 157-59) by the Zhdanov Plant im. Il'ich and by the Nizhne-tagil'skiy i Kuznetskiy metallurgicheskiye kombinati (Nizhniy-Tagil and Kuznetsk Metal Combines). Seamless pipes of 48-350 mm diameter made of 09G2DT (M) steel are supplied in accordance with ТУТ 578-56 (TUT 578-56) by the Zhdanov Plant im. Il'ich and the Yuzhnotrubnoy zavod (Southern Pipe Plant). Reduced content of carbon and proper proportion of other elements render the new steels resistant to welding fractures, also disinclined to overheating and the formation of low-plastic structures. Contrary to standard steels 25K, 19Г (25K, 19G) or chromium 15ХНДС, 14ХГС (15KhNDS, 14KhGS) etc., new steels respond to every type of high-yield welding, including electro slag welding [Ostrovskaya, S. A. - Ref. 3: Avtomaticheskaya svarka, no. 8, 1959; Ostrovskaya, S. A. - Ref. 4: Avtomaticheskaya svarka, no. 5, 1959]. Welding methods with the exception

The use of high-resistant and...

of filler materials, are the same as for conventional types of low-carbon steels. Manual welding is performed by ЭЗ0А (Е50А) electrodes, automatic welding with Св.08ГА (Св.08ГА) wire under АН-348 (АН-348) flux or its equivalent. Machinery of these steels is constructed according to inter-branch МН72-59 (МН 72-59) standard. Their use reduced the weight and material consumption by 20 – 30%, the labour input by 8 – 12%, the consumption of filler material and electric power by 35 - 40% and the cost by 15 - 20%. The steels described are successfully used for oil refinery and chemical machinery construction, the total exceeding 30,000 tons. There are 2 tables and 4 Soviet references.

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S/135/61/000/002/006/012
A006/A001

18.1111

AUTHOR: Yunger, S. V., Engineer

TITLE: On the Use of High-Strength Low-Alloy 09Г2ДТ(М) (09G2DT(M)) and 16ГТ(3Н) (16GT(3N)) Steels

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 2, pp. 24-28

TEXT: Conventional low-carbon steels do no longer meet the higher requirements to low-temperature operation and processing. For the purpose of replacing low-carbon steels by high-strength low-alloy steels the Zhdanov Plant imeni Il'yich, SNIITMASh of Stalingrad, and the Institute of electric welding imeni Ye. O. Paton developed, tested and introduced two new high-strength low-alloy steel grades: 09G2DT(M) and 16GT(3N) (Ref. 1-6). The investigations were made with the participation of A. Ye. Asnis (Institute of Electric Welding imeni Ye. O. Paton); A. V. Prokhorov, Ye. K. Babayenko (Plant imeni Il'yich); A. S. Aderikhin, V. S. Salimon, V. V. Paleyava, M. P. Mel'nikov, B. G. Voronov (SNIITMASh); V. G. D'yakov and Z. A. Abramova (Giproneftemash). The new steel grades were developed on the basis of their complex alloying with materials available, and by employing an improved deoxidation technology with aluminum and ferrotitanium. The composition of the

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A006/A001

On the Use of High-Strength Low-Alloy 09Г2ДТ(М) (09G2DT(M)) and 16ГТ(ЗН) (16GT (3N)) Steels

steels is given in Table 1. Critical points and coefficients of linear expansion are shown in Table 2. The new steel grades were subjected to a series of tests to determine their toughness at -40 and -70°C; endurance strength at 450 - 500°C; sensitivity to hot brittleness after 2,000 hours isothermal holding at 300 to 500°C; vibration and impact strength and the effect of the sheet thickness on yield limit and ultimate strength. Weldability of the steels was tested by automatic welding with Св-08ГА (Sv-08GA), Св-10Г2 (Sv-10G2) and Св-12М (Sv-12M) wire; welding of cold-resistant equipment intended for operation at -70°C, and electroslag welding of 70, 90 and 160 mm thick steel. The results of tests are given in a number of tables and diagrams. It was established that the optimum ratios of manganese and silicon in the composition of the new steels compensated the heterogeneous micro-distribution of carbon. A noticeable reduction of ferrite streaks, which diminishes the toughness and ductility of the metal was obtained. The new steel grades offer high economicity, weldability, high-strength properties, satisfactory ductility, high toughness at both negative and elevated temperatures, and low sensitivity to cold working, notching and aging. They can be employed in chemical and heavy machinebuilding, for railroad cars, locomotives and tractors.

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22938
S/125/61/000/006/002/010
D040/D112

1.1710 also 2708

AUTHORS: Yunger, S. V., Mel'nikov, M. P., Logvinov, V. I.

TITLE: Effect of long heating at 350-600°C on impact resistance of austenite-ferritic welds

PERIODICAL: Avtomaticheskaya svarka, no. 6, 1961, 14-20

TEXT: The results are given of an experimental investigation at the Stalingrad Scientific Research Institute of Machine Building, or SNIITMASh, on the effect of long heating at 350-600°C on the impact resistance of welded joints on 1Kh18N9T (1Kh18N9T) steel. It was proved that joints welded by automatic machines are less prone to embrittlement than joints welded manually with the same electrode wire. It is a known fact that the presence of ferrite in welds on austenitic steel prevents crystallization cracks, and new wires and electrodes contain ferrite-producing constituents (silicon, vanadium, columbium, etc.), but the ferrite phase in austenite steel welds is unstable at 350-600°C, which is the usual service temperature for 1Kh18N9T steel. Information had been published on brittle failure of welds due to sigma-phase formation. The permissible per cent ferrite content in

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Effect of long heating at 350-600°C...

welds is not certain. The article includes the chemical composition of welds produced by different electrodes in SNIITMASh experiments, and of the base 1Kh18N9T metal:

Electrode or wire	Weld metal	Content (%) C	Mn	Si	Cr	Ni	Ti	V	Nb	δ-phase in welds (%)
		Manual Welding								
ЛЗ-39 (L-39)	0Х18Н9С (OKh18N9S)	0.08	2.69	0.82	18.54	9.25	0.08	-	-	2.7
ЛЗ-40М (L-40M)	0Х18Н9СБ (OKh18N9SB)	0.07	2.88	1.03	18.54	9.64	0.06	-	0.62	5.2
ГЛ-1 (GL-1)	0Х18Н9С2 (OKh18N9S2)	0.08	1.90	2.70	18.35	9.27	0.04	-	-	7.0
ГЛ-2 (GL-2)	0Х18Н9Ф2С2 (OKh18N9F2S2)	0.06	0.74	1.64	18.05	9.42	0.06	2.16	-	16.0
Л (D)	0Х20Н9Ф2СБ (OKh20N9F2SB)	0.10	1.41	0.94	19.90	9.67	0.08	2.17	1.49	20.0

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Effect of long heating at 350-600°C...

Electrode or wire	Weld metal	Content (%) C	Mn	Si	Cr	Ni	Ti	V	Nb	α-phase in welds (%)
		Automatic welding								
Св-04х19Н9 (Sv-04Kh19N9)	0Х18Н9 (0Kh18N9)	0.07	1.16	0.78	17.8	9.72	0.026	-	-	1.8
Св-04х18Н9С2 (Sv-04Kh18N9S2)	0Х18Н9С (0Kh18N9S	0.07	0.73	1.21	18.84	10.14	0.27	-	-	4.7
Св-05Х19Н9Ф3С2 (Sv-05Kh19N9F3S2)	0Х18Н9ФС (0Kh18N9FS)	0.08	0.75	0.85	18.80	9.55	0.21	1.08	-	7.2
		Base metal								
—	1Х18Н9Т (1Kh18N9T)	0.09	0.74	0.85	18.80	9.55	0.52	-	-	1.0

The welds were tested after long holding at 350-600°C. The electrodes and wires were standard except for one experimental composition (0Kh20N9F2SB). The specimens (plates) were joined manually by butt welds, with edges

Card 3/ 6

Effect of long heating at 350-600°C...

bevelled at 30°C, in four beads, using 180-200 amp inverse polarity current. Automatic welds were welded without bevelling edges, by buried arc, with AN-26 (AN-26) flux of the Institut elektrosvarki (Electric Welding Institute), using 700-750 amp 38-40 v a.c., at a speed of 31 m/hr. Standard impact test speciments and separate cylindrical specimens for determination of ferritic phase were subjected to isothermic heating for different times between 100 and 5000 hours. Carbide phase was examined by electrolytic etching in 10 % ferrocyanide solution in water (with 5 volt current, for 5-7 sec). Alpha-ferrite and sigma-phase were revealed by subsequent etching in potassium hydroxide or sodium hydroxide. The structure phases revealed in metallographic examinations were checked by X-ray analysis. It was stated that the impact resistance of welds was higher at ageing temperature than at room temperature, particularly in OKh20N9F2SB metal (3-5 times higher). This means that the reduced impact resistance caused by prolonged heating at 350-600°C is most dangerous when the temperature goes down, e.g. when a machine is stopped, and not in operation. Ageing with carbide separation was established in weld metal with 3% ferrite after 5000 hours at 400°C and 1000 hours at 450°C; at higher temperatures carbides formed not only on the austenite-ferrite boundaries but also in austenite adjoining the ferrite.

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22938
S/125/61/000/006/002/010
D040/D112

Effect of long heating at 350-600°C ...

Sigma formed at 550°C. Ferrite became "spongy" as a result of long ageing, split, and after the formation of sigma remained in single spots in the form of an eutectoid consisting of changed austenite and ferrite. Conclusions: 1) The initial content of ferrite component reduces the impact resistance considerably and increases the embrittlement of welded joints over a long time at 350-600°C. 2) The impact resistance drops mainly during the first 1000 hours, it drops more slowly between 1000 and 2000 hours, and then up to 5000 hours the effect of heat is not noticeable. 3) The impact resistance over the entire 350-600°C range rises considerably at ageing temperature in comparison to room temperature. This applies equally to welds embrittled by separation of secondary carbides and sigma, and welds embrittled without sigma formation. 4) Not only the quantity but also the quality of ferrite has a considerable effect, i.e. its distribution in weld metal depending on the welding method and the alloying system. Welds produced by machines have considerably better properties than welds made manually, the ferrite content being equal. 5) In the case of identical austenite-ferrite welding wires, automatically welded joints have considerably better impact resistance than manually welded, for machine welds contain less filler metal and hence less ferrite. V. V. Faleyeva and L. V. Yudina took part in the

Card 5/6

Effect of long heating at 350-600°C...

investigations. There are 10 figures, 2 tables and 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: L. K. Poole, Sigma and Unwanted Constituent in Stainless Weld Metal, "Metal Progress", v. 65, No. 6, 1954.

ASSOCIATION: Stalingradskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (SNIITMASh) (Stalingrad Scientific Research Institute of Machine Technology)

SUBMITTED: August 31, 1960

Card 6/6

L 10300-63 EWP(k)/EWP(q)/EWT(m)/
BDS--AFFTC/ASD--JD/HM/WB

ACCESSION NR: AP3002118

AUTHOR: Nechayev, V. A.; Yurger, S. V.

TITLE: Effect of the composition of 1Kh18N9T steel [illegible] intergranular-corrosion resistance after [illegible] heating at [illegible]

SOURCE: Avtomaticheskaya svarka, no. [illegible], 196[illegible], [illegible]

TOPIC TAGS: [illegible]Kh18N9T steel, [illegible]-resisting steel, [illegible] stabilizing annealing

[illegible] ad [illegible]en known [illegible] welded [illegible] are liable to intergranular [illegible]. Therefore, studies of the effect [illegible] welded joints of this steel were [illegible] mized [illegible] with different [illegible] ratios and six types of [illegible] welding was [illegible]. It was found that: (1) [illegible] guarantee the intergranular-corrosion [illegible] for a long time [illegible] with [illegible] intergranular-corrosion resistance of welded joints [illegible] EI902 (Kh18N12M3B), and [illegible]

L 10300-63
ACCESSION NR: AP3001112

and if the joints are annealed [illegible]
V. V. Rayevskaya, M. P. Malishev, [illegible]
Orig. art. has: 5 figures and [illegible]

ASSOCIATION: Volgogradskiy [illegible]
mashinostroyeniya (Volgograd [illegible]
Technology)

SUBMITTED: 15May62 DATE ACQ: [illegible]

SUB CODE: 00 NO REF SOV: 00 [illegible]

ACCESSION NR: AP4013084 S/0125/64/000/002/0067/0071

AUTHOR: Yunger, S. Y.; Gorkunenko, G. N.

TITLE: Electroslag welding of 16GS(3N) 50-140-mm-thick low-alloy steel

SOURCE: Avtomaticheskaya svarka, no. 2, 1964, 67-71

TOPIC TAGS: welding, electroslag welding, 16GS(3N) steel, low alloy steel, weld metal aging, Sv-10G2 electrode wire, AN-8 flux

ABSTRACT: Results of experiments with a new 16GS(3N) low-alloy steel, intended for equipment and boilers to be used in the petroleum and chemical industries, are reported. The chemical composition of the base and weld metals was as follows:

Metal	Content %					
	C	Mn	Si	S	P	Ti
Base	0.17	1.04	0.51	0.027	0.032	0.017
Weld	0.12	1.18	0.22	0.027	0.026	*

* Was not determined

Card 1/2

ACCESSION NR: AP4013084

With Sv-10G2 welding wire and AN-8 flux, the welding rate obtained was higher by 20% when compared to 22K steel. The coarse-grain area in the weld-affected zone has a satisfactory initial toughness at temperatures not lower than -10C. Upon normalization with a high tempering, a satisfactory toughness is ensured at temperatures down to -40C. The same area immediately after welding or after a high tempering has a low resistance to workhardness. Normalization with a subsequent high tempering imparts a better resistance to aging to the weld metal and the coarse-grain weld-affected zone down to a temperature of -10C. Pre-normalization of the base metal does not tend to increase the toughness of the large-grain weld-affected zone area. Orig. art. has: no figures, no formulas, and no tables.

ASSOCIATION: Volgogradskiy nauchno-issledovatel'skiy institut tekhnologii machinostroyeniya (Volgograd Scientific-Research Institute of Machine-Building Technology)

SUBMITTED: 22Apr63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: ML NO REF SOV: 005 OTHER: 000

Card 2/2

VAYNER, Sh.A., inzh.; VAYNER, S.A., inzh.; USOL'TSEV, V.A., inzh.; FOKIN, V.M., inzh.; SOTSKOV, N.I., inzh.; ZANDBERG, S.A., inzh.; SIGAREV, V.S., inzh.; BRONSHTEYN, L.M., inzh; YUNGER, S.V., kand. tekhn. nauk; BATYREV, A.V., inzh.; BODYAKIN, Yu.F., inzh.; RYZHKOV, N.I., inzh.; YAKHNIN, A.L., inzh.; FRIDKIS, Z.I., inzh.

Furnishing the SGU gas-cutting machine with a FOS-4 scale photocopying control system. Svar. proizv. no.9:34 S '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (for Sh.Vayner, S.Vayner, Usol'tsev, Fokin, Sotskov). 2. Volgogradskiy zavod im. Petrova (for Zandberg, Sigarev, Bronshteyn). 3. VPTI khimnefteapparatury (for Yunger, Batyrev, Bodyakin). 4. Ural'skiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze (for Ryzhkov, Yakhnin, Fridkis).

L 29381-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6019796 SOURCE CODE: UR/0286/65/000/004/0113/0113

INVENTOR: Prokhorov, A. V.; Shalamov, I. I.; Fotisov, S. G.; Prokhorov, P. A.; Tutov, I. Ye.; Parshin, A. A.; Kavash, L. D.; Slutskaya, T. M.; Yunger, S. V.

ORG: none

TITLE: Low-alloy steel. Class 18, No 148088

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 113

TOPIC TAGS: low alloy steel, vanadium, boron, tensile strength, heat resistance

ABSTRACT: A low-alloy steel is proposed which has vanadium and boron added to it to increase strength and heat resistance. Its chemical composition is: 0.13-0.18% C, 1.2-1.6% Mn, 0.5-0.8% Si, 0.3-0.6% Cr, 0.15-0.25% Mo, 0.08-0.12% V and 0.003% (max) B. [JPRS]

SUB CODE: 11, 20 / SUBM DATE: none

Card 1/1

TITLE: Welding rod. Class 49, No. 170528

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, [illegible]

TOPIC TAGS: welding, welding rod

ABSTRACT: This Author's Certificate introduces a rod for [illegible] rod contains carbon, manganese, silicon, chromium, nickel, [illegible] bium, sulfur, phosphorous, and iron. The quality of the [illegible] by using the following percent proportions of components: [illegible] 0.09; silicon--no more than 0.8; manganese--1-2; chromium [illegible] titanium-1.0-1.4; aluminum--0.3-0.5; niobium--0.6-0.8; [illegible] phosphorous--no more than 0.03; remainder--iron.

ASSOCIATION: Volgogradskiy Nauchno-issledovatel'skiy ins[illegible]

Card 1/2

SUBMITTED: 08May63 ENCL: 00 SUB CODE: AP, ...

NO REF SOV: 000 OTHER: 000

Card 2/2

MAKARA, A.M.; ISKRA, A.S.; YEGOROVA, S.V.; YUNGER, S.V.; GORKUNENKO, G.N.; NIKUYKO, N.A.; ZANDBERG, S.A.; BRONSHTEYN, L.M.

Technology of electric slay welding of petroleum refining and chemical apparatus without normalization. Avtom. svar. 18 no.5:11-16 My '65. (MIRA 18:6)

1. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (for Makara, Iskra, Yegorova). 2. VPTIkhimnefteapparatury (for Yunger, Gorkunenko, Nikuyko). 3. Volgogradskiy zavod im. Petrova (for Zandberg, Bronshteyn).

L 46600-66 EWT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HM/HW/WB
ACC NR: AP6012584 (N) SOURCE CODE: UR/0314/66/000/004/0027/0029

AUTHOR: Grekov, I. N. (Engineer); Yunger, S. V. (Candidate of technical sciences); Rubenchik, Yu. I. (Candidate of technical sciences); Kofman, A. P. (Candidate of technical sciences); Likhachev, G. F. (Engineer); Bronshteyn, L. M. (Engineer)

ORG: none

TITLE: Production of apparatus from bimetallic sheets obtained by the explosion method

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 4, 1966, 27-29

TOPIC TAGS: bimetal, corrosion resistant steel, explosive forming

ABSTRACT: VNIIPTKh in cooperation with the Volgograd Polytechnic Institute (Volgogradskiy politekhnicheskiy institut) and the Volgograd Plant of Petroleum Machinery im. Petrov (Volgogradskiy zavod neftyanogo machinostroyeniya) conducted weldability tests on the bimetal St. 3 + Kh18N9T prepared by the new explosion method, and studied its qualitative characteristics at various stages of construction of experimental industrial equipment weighing up to 20 tons. The metal was found to have a good weldability, and

Card 1/2 UDC: 66.05:621.9—419.002.2

L 46600-66
ACC NR: AP6012584

welded structures made of it can be prepared by earlier processes developed for welding bimetals produced by classical methods. Weld joints prepared in this manner were found to have high values of strength and plasticity. In addition to mechanical tests, the weld joints successfully passed tests for intercrystalline corrosion, x-raying, and other checking operations. V. M. Stepanov, V. G. Tugabey, and V. V. Faleyeva took part in this work. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11,13/SUBM DATE: none

Card 2/2 afs

SAFONNIKOV, A.N.; YUNGER, S.V.

Conference on highly efficient methods of welding in chemical and petroleum machinery construction. Avtom. svar. 17 no.12: 84-87 D '64 (MIRA 18:2)

1. YUNGERMAN, A. Ye.; MARKIDIN, V. P.

2. USSR (600)

4. Paleontology

7. Present state of Soviet paleontology and the prospects of its development. Izv. An SSSR Ser. biol., No. 6, 1952

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

YUNGERMAN, A.Ye.; MAKRIDIN, V.P.; NALIVKIN, D.V., akademik.

Lower Jurassic deposits of the Krasnooskol boss at the northwestern outskirts of the Donets mountain ridge. Dokl.AN SSSR 92 no.2:409-411 S '53.
(MLRA 6:9)

1. Akademiya nauk SSSR (for Nalivkin). 2. Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo (for Yungerman and Makridin).
(Oskol valley--Geology, Stratigraphic) (Geology, Stratigraphic--Oskol valley)

E 64689-65

ACCESSION NR: AP5021910

ing are described; the results of the investigation are [illegible]
discussed from the qualitative viewpoint and illustrated by [illegible]
diagrams. In order to facilitate the quantitative analysis of the
characteristics of the material were experimentally determined, and
lower limits of the buckling stress were calculated for specimens with
initial imperfections. The deformation of the middle surface of

L 6618-65 EWT(1)/EWG(k)/T ... IJP(c)/SSD/AFETR ...
EAEM(t) AT
ACCESSION NR: AP4043400 S/0181...

AUTHOR: Anisimova, I. D.; Yungerman, ...

TITLE: Recombination radiation of a p-n ...

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, ...

TOPIC TAGS: indium arsenide, recombination emission, pulsed light, forbidden band, quantum yield

ABSTRACT: Current pulses of 5-μsec duration and ... were applied in the forward direction to ... pared by diffusing Cd into n-type material with ... intensity of the emitted recombination ...

were applied in the forward direction to p-n junc
pared by diffusing Cd into n-type material with (5-9
donors/cm^3. The intensity of the emitted recombinat
increased roughly linearly with the current density
tion wavelength was not affected by the current. The
emitted quanta decreased linearly with increase in
the rate of 3.5 x 10^{-4} ev/deg, in agreement with

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L 6618-65
ACCESSION NR: AP4043406

pendence of the forbidden band width (the
gated was room temperature to 77K). At
combination quanta was 0.40 ev corresp
height of the potential barrier in the

combination quanta was 0.80 eV corresponding to $\lambda = 3.12\ \mu$. The height of the potential barrier in the junction [illegible] rapidly with temperature than did the forbidden [illegible] polarity current pulses also generated recombination [illegible] of considerably lower intensity. "The authors thank [illegible] and F. F. Kharakhorin for supplying the [illegible] for preparing the junctions." Orig. art. has: 4 fig.

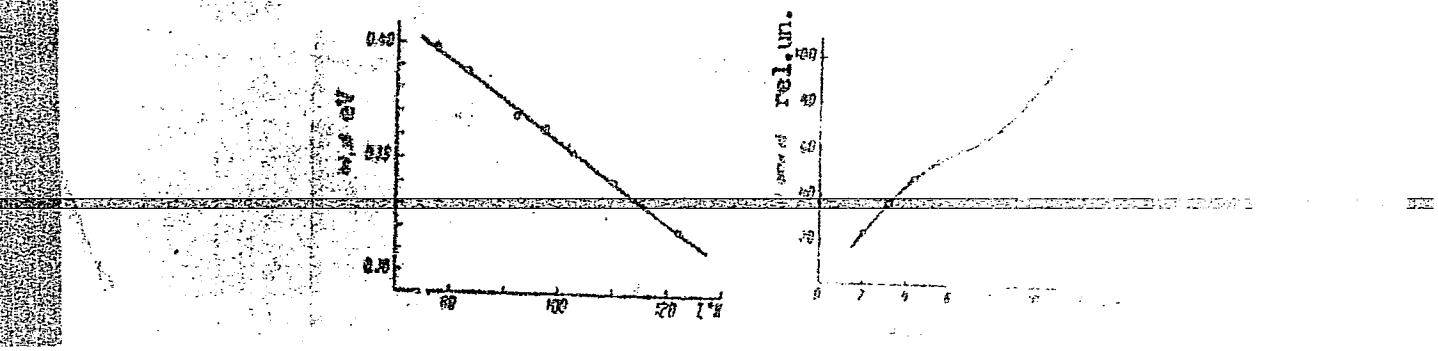
ASSOCIATION: none

SUBMITTED: 31Mar64 ATD PRESS: 3094

SUB CODE: SS, NP NO REF SOV: 000

Card 2/3

L 6618-65
ACCESSION NR: AP 4043400



ANISIMOVA, I.D.; YUNGERMAN, V.M.; KULYMANOV, A.V.

Recombination radiation from a p - n-junction in InAs. Fiz. tver. tela 6 no.8:2555-2556 Ag '64. (MIRA 17:11)

YUNOVROV, A., inzhener.

Norms for overhead expenses in construction industry. Stroitel' 2 no.11:29 N '56. (MIRA 10:1)

(Construction industry--Costs)

YEVREMOV, S.A.; YUNGEROV, A.A.

Lowering costs of building and assembling. Stroi. prom. 36 no.3:40-3 of cover Mr '57. (MIRA 11:3)

(Construction industry--Costs)

YUNGEROV, A.A., inzh.

Costs of assembling and construction work in 1957. Biul. stroi. tekh. 15 no.8:6-9 Ag '58. (MIRA 11:9)

1.Gosstroy SSSR.

(Construction industry--Costs)

IL'IN, Ivan Mikhaylovich; YUNGEROV, A.A., red.; IL'IN, V.M., red.; LEYKIN, B.P., red.; MALYUGIN, V.I., red.; MASLOV, N.A., red.; USPENSKIY, V.V., red.; SKASS, M.Ye., red.; KUTSKOVA, A.A., red.izd-va; RYAZANOV, P.Ye., tekhn.red.

[Business accounting in building organizations] Khozraschetnyi raschet v stroitel'nykh organizatsiiakh. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 148 p. (MIRA 14:2)

(Construction industry--Accounting)

ACC NR: AP7012408 SOURCE CODE: UR/0367/67/005/001/0022/0025

AUTHOR: Gangrskiy, Yu. P.; Markov, I. N.; Polikanov, S. M.; Yungklaussen, G. -- Jungclaussen, H.

ORG: Joint Institute for Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy)

TITLE: Investigation of the reaction U^{238} - B[11] leading to a spontaneously fissionable isomer Am^{242}

SOURCE: Yadernaya fizika, v. 5, no. 1, 1967, 22-25

TOPIC TAGS: americium, boron, nuclear isomer, nuclear spin

SUB CODE: 20,11

ABSTRACT: The reaction U^{238}+B[11] leading to the ground (1-), isomeric (5-) and spontaneously fissionable states of Am^{242} was investigated. The excitation functions have been obtained for the ground and spontaneously fissionable states. For the 5- state, the averaged cross section has been measured in the energy range 50-68 MeV. The spin of the spontaneously fissionable state was evaluated by comparing the cross sections for the production of Am^{242} in various states The authors thank G. N. Flerov for constant interest in the work, V. P. Perelygin and coworkers of his group for processing and examining the glass detectors, K. A. Gavrilov for preparing the targets, and B. A. Gvozdev

Card 1/2

0932 1339

ACC NR: AP7012408

and S. A. Pleshukovaya for the chemical separation of Am and Cm. Orig. art. has: 3 figures and 1 formula. [Based on authors' Eng. Abst.] [JPRS: 40,393]

2/2

BROUNSHTEYN, B.I.; GURVICH, L.V.; YUNDMAN, V.S.; YURKOV, G.N.

Statistical methods of computing the thermodynamic functions of ideal gases. Report No. 1: General relationships of statistical thermodynamics for ideal gas. Trudy GIPKH no.42:3-10 '59. (MIRA 13:10)
(Thermodynamics) (Gases)

BROUNSHTEYN, B.I.; GURVICH, L.V.; FUNGMAN, V.S.; YURKOV, G.N.

Statistical methods of computing the thermodynamic functions of ideal gases. Report No. 2: Expression for the statistical sum based on the states of diatomic molecules. Method of direct summation based on the levels of diatomic molecules. Trudy GIPKH no.42:11-20 '59.
(MIRA 13:10)

(Gases) (Thermodynamics)

BROUNSHTEYN, B.I.; GURVICH, L.V.; YUNGMAN, V.S.; YURKOV, G.N.

Statistical methods of computing the thermodynamic functions of ideal gases. Report 3: Approximate methods of calculating the statistical sum from the rotational states of diatomic molecules. Trudy GIPKH no.42:21-50 '59. (MIRA 13:10)
(Thermodynamics) (Gases)

YUNGMAN, V.S.

Vibrational analysis of the $A\,^3\Pi - X\,^3\Sigma^-$ system of the OH molecule. Opt. i spektr. 8 no.2:281-282 F '60. (MIRA 13:10)
(Spectrum, Molecular) (Hydroxy group--Spectra)