KUBAT, A.; PATOCKA, S.

Use of wedge filters for the GUT-400 telegamma apparatus. Neoplasma 9 no.2:209-211 '62.

1. Onkologische Abteilung des staatlichen Fakultatskrankenhauses und Physikalisches Institut der medizinischen Fakultat der Karlsuniversitat in Pilsen, CSSR.

(RADIOTHERAPY equipment & supplies)

S/081/62/000/005/024/112
B149/B101

AUTHORS: Havlovic, Vratislav, Patočka, Stanislav, Matoušek, Jiří

TITLE: Investigation on the natural and artificial radioactive aerosols in the atmosphere during the years 1959-1960

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 154, abstract 5G124 (Československ. hyg., v. 6, no. 7, 1961, 411-416)

TEXT: [Abstracter's note: Complete translation.]

Card 1/1

Country : Czechoslovakia

Category : Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs. Jour : [illegible] 1959, 5359

Author : Havlovic, V., Fatocka, S., and Matousek, J.

Institut. : Not given

Title : Observation on the Natural and Artificial Radioactive Aerosols in the Atmosphere During the Second Half of 1957

Orig. Pub. : Ceskoslov Hyg, 3, No 7, 391-401 (1958)

Abstract : The authors present data on the diurnal variation of the concentration of Rn, Tr, and of artificial radioactive aerosols in the atmosphere during the second half of 1957. The determinations were made by a filtration procedure which is described in the article. The authors point to the high probability of a correlation between the sharp increase in the short-time radioactivity in the air over Pilsen and the accident at the British atomic reactor [illegible].

From authors' summary

Card: 1/1

S/169/62/000/002/031/072
D228/D301

AUTHORS: Havlovic, V., Patočka, S. and Matoušek, J.

TITLE: Investigations of natural and artificial radioactive aerosols in the atmosphere in 1959-1960

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1962, 16, abstract 2B128 (Ceskosl. hyg., 6, no. 7, 1961, 411-418)

TEXT: The results of observations at Pilzen are presented. The unusually high radon concentration of 2.5×10^{-10} curies/m^3 was noted in August-September 1959; this was related to the period of drought. The level of the atmosphere's artificial radioactivity fell in the course of 1959-1960, but maximum contents of long-life radioactivity were again recorded after the explosions in the Sahara. [Abstracter's note: Complete translation.]

Card 1/1

PATOCKA, S

SURNAME (in caps); Given Names

Country: Czechoslovakia

(2)

Academic Degrees: [not given]

Affiliation: Physics Institute of the Medical Faculty (Fyz ustav lek fakulty), Plzen

Source: Prague, Meteorologicke Zpravy, Vol XIV, No 3, 30 June 1961, pp 71-74

Data: "Meteorological Station with Remote Electrical Recording."

Authors:
PATOCKA, S
MATOUSEK, J

,42

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: (not given)

Affiliations: Physics Institute, Faculty of Medicine, Charles University (Fyzikalni ... lekarske fakulti KU), Plzen

Source: Prague, Ceskoslovenske Hygiena, Vol VI, No 7, Aug 61, pp411-418

Data: "Studies of Natural and Artificial Radioactive Aerosols in the Air in 1959 1960"

HAVLOVIC, Vratislav
PATOCKA, Stanislav
MATOUSEK, Jiri

GPO 981643

PATOCKA, V., inz. (Praha)

Basic service life and equivalent load of antifriction bearings. Strojirenstvi 13 no. 12: Supplement: Tabulky pro konstruktery 13 no. 12: I/25-I/34 D '63.

PATOCKA, Vaclav, inz.

Calculation of antifriction bearings according to new standards. Normalizace 12 no. 4:94-96 Ap '64.

1. Research Institute of Antifriction Bearings, Technical and Advisory Center, Prague.

PATOCKA, Vaclav, inz.

Calculation of antifriction earings according to the new standards. Normalizace 12 no. 3: 67-71 Mr '64.

1. Research Institute of Antifriction Bearings, Technical and Consultative Center, Prague.

L 20211-66 T/ETC(m)-6 WW/DJ
ACC NR: AP6010337 SOURCE CODE: CZ/0032/65/015/007/0491/0497

AUTHOR: Patocka, V. (Engineer; Prague)

ORG: none

TITLE: Radial clearance in antifriction bearings

SOURCE: Strojirenstvi, v. 15, no. 7, 1965, 491-497

TOPIC TAGS: antifriction bearing, mechanical engineering

ABSTRACT: The article discusses the effect of assembling and wear on the radial clearance and also the relationship between the roughness of the working surfaces, operating conditions and the clearance. Several tables provide the designer with the data required for selecting the optimum clearance for a given application. This paper was presented by K. Benetka. Orig. art. has: 11 figures and 5 tables. [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 006

Card 1/1

UDC: 621.822.6;621.004.6

PATOCKI, A.

Poznan Aero Club of the League of Soldiers Friends should be first again. p. 261. (SKRZYDLATA POLSKA, Vol. 10, No. 17, Apr. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

MYDLIL, Frantisek; PROCHAZKA, Jaroslav; KREJZEK, Miroslav; PATOCKOVA, Vera

Recurrences after lung resection for tuberculosis, 5 to 12 years following the operation, in 440 patients. Sborn. ved. prac. lek. fak. Karlov. univ.: Suppl. 8 no.5:513-523 '65.

1. Plicni lecebna v Zamberku (prednosta MUDr. F. Mydlil) a Chirurgicka klinika (prednosta prof. MUDr. J. Prochazka, DrSc.).

PATOCS, Jozsef (Hodmezovasarhely)

Results and difficulties in fighting bunglers. Magy kisipar 7 no.1:3 10 Ja '63.

LATOH, L. ; LADO, L.

"Timely Problems of Management", p. [illegible], ([illegible], Vol. [illegible], No. [illegible], Mar. 19[illegible], Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. [illegible], No. 1, Jan. 19[illegible], Uncl.

PATCH, LASZLO

Munkaberelszamolas az epitoiparban. (Budapest) Kepszava (1951) 35 p. (Szocialista Munka Konyvtara) (Wage accounting in the building industry.)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

SCHNEER, Anna; PATOH, Piroska

Investigation of zirconium-morin system.II.Effect of the reaction conditions. Magy kem folyoir 67 no.8:334-339 Ag '61.

1. Eotvos Lorand Tudomanvegyetem Altalanos es Szervetlen Kemiai Tanszeke es Kozponti Fizikai Kutato Intezet Kemiai Osztalya Budapest.

PATON, P

7

3

1-99(118)

1-CF

Production of uranium complexes for the purpose of preparing thin layers. [illegible] and Anna [illegible]. *Magyar Tudomanyos Akad. Kemiai Tud. Oszt. Kozlemenyei* 7, 80–5(1959).—Complex U salts with acetylacetonate were found to have properties adaptable for the prepn. of thin layers. The complex $U(C_5H_7O_2)_4$ has a red color at 120°; at 140° it starts to sublime. Its absorption spectrum cannot be detd. as it oxidizes readily in EtOH or benzene soln. U(VI) forms complex salts with acetylacetonate and thenoyltrifluoroacetone (TTA). The absorption spectrum shows max. at 378, 325, and 212 mμ; and min. at 355 and 345 mμ. B. Rama

PATOKA, P.I.

Ukrainian pigeons. Ptitsevodstvo 9 no.8:42-45 Ag '59.
(MIRA 12:12)

1. Predsedatel' sektsii golubevodstva Ukrainskogo obshchestva okhrany prirody.
(Ukraine--Pigeon breeds)

PATOKA, Pavel Ivanovich; SVECHNIKOVA, N. [Svechnykova, N.], red.; KLOKOVA, S., tekhn.red.

[Manual for pigeon breeders] Na dopomohu holubivnykovi. Kyiv, Vyd-vo TsK LKSMU "Molod", 1957. 72 p. (MIRA 11:6)
(Pigeons)

AUTHOR: Patoka, S. SOV/84-58-8-29/59

TITLE: Sowing Rice from the Air (Aerosev risa)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 8, p 19 (USSR)

ABSTRACT: This short note reports on experimental sowings of rice from the air somewhere in Primorskiy Kray in 1957. This year, 1,400 hectares of rice were sown from specially adapted An-2 planes.

Card 1/1

SYKORA, J.; KUBAT, A.; [illegible], S.

Hazards of [illegible] radio[illegible]. [illegible]

[illegible]-97 '64.

1. Oddeleni [illegible] povolani a [illegible] CPN v [illegible] (prednosta: MUDr. A. Kubat) a [illegible] ustav lekarske [illegible] Karlovy v [illegible] (prednosta: d[illegible]. MUDr. M. [illegible]).

PATOKIN, L.K.

Extraction of coal with long charges in Vizel Basin mines.
Nauch. trudy Perm NIUI no. 4:127-13[illegible] '62. (MIRA 17:6)

PATOKINA, N.P.

For citation as communist labor team. Gidroliz.i lesokhim. prom. 13 no.6:18-19 '60. (MIRA 13:9)

1. Leningradskiy gidroliznyy zavod.
(Leningrad--Alcohol)

PATOKOV, Iv., inzh.

How to make a drainage. Nauka i tekh mladezh 14 no.4:20-21 Ap '64.

PATOKOV, Ivan, k. t. n. inzh.

Determining the most economical slopes for the massive, buttresslike dams of the Nötzli type. Khidrotekh i melior 7 no.6:180-182 '62.

PATOKOV, Ivan, k. t. n. inzh.

Rational shaping of the entrance walls in water-intake installations. Khidrotekh. i melior 7 no.7:196-199 '62.

PATOKOV, Iv. N., i t. n.

The new construction of side reservoirs. Izv Gidrav lab 4: 251-264 '62.

PATOKOV, Ivan, inzh., k.t.n.

Rational contour of inlet walls in collateral water-supply installations. Godisznik Inzh stroit inst 14 no.1:59-74 '62. [publ.'63]

PATOKOV, Ivan, k. t. n. inzh.

Computing and building of a massive buttress dam with broken upstream slope. Khidrotekh i melior 8 no.1:21-24 '63.

PATOKOV, Ivan, inzh., kandidat na tekhnicheskite nauki

Diversion of water in rivers by installing equipment in the part of the river. Khidrotek i melior 6 no.6:174-176 '61.

PATOKOV, Ivan N., k.t.n. inzh.

Draining the waste water from building sites. Khidrotekh i melior 7 no.9:275-277 '62.

1. PATOLICHEV, N.
2. USSR (600)
4. Reclamation of Land - Poles'ye Region
7. And this land shall be renewed ... Rabotnitsa 31, No. 1, 1953.

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

PATOLICHEV, N.S.

Development of commercial relations between the U.S.S.R. and the United States. Vnesh.torg. 29 no.2: insert 1-7 '59. (MIRA 12:4)

(Russia--Commerce--United States)
(United States--Commerce--Russia)

PATOLICHEV, N.S.; TROMPCHINSKIY, V. [Trampczynski, V.]

Development of trade in the interest of both countries (Russia and Poland). Vnesh.torg. 43 no.4:14-16 '63. (MIRA 16:4)

1. Ministr vneshney torgovli SSSR (for Patolichev). 2. Ministr vneshney torgovli Pol'skoy Narodnoy Respubliki (for Trompchinskiy). (Russia--Commerce--Poland) (Poland--Commerce--Russia)

PATOLICHEV, N. S.

The Soviet Union wants more extensive trade with all countries.
Vnesh. torg. 30 no.4:10-16 '60 (MIRA 13:3)

1. Ministr vneshney torgovli SSSR.
(Russia--Commerce)

PATOLICHEV, N.S.; INTSE, Y. [Incze, J.]

Economic contacts between the U.S.S.R. and Hungary develop and strengthen. Vnesh. torg. 42 no.3:4-5 '62. (MIRA 1:3)

1. Ministr vneshney torgovli SSSR (for Patolichev). 2. Ministr vneshney torgovli Vengerskoy Narodnoy Respubliki (for Intse).
(Russia--Foreign economic relations--Hungary)
(Hungary--Foreign economic relations--Russia)

PATOLICHEV, N.S.

Foreign trade in the service of peace. Vnesh. torg. 41 no. 7 insert 1: 3-6 '61. (MIRA 14:7)

1. Ministr vneshney torgovli SSSR. (Commerce)

PATOLICHEV, N. S

For the solution of problems raised by the congress. Vnesh. torg. 41 no.11:2-8 '61. (Mira [illegible])

1. Ministr vneshney torgovli SSSR.
(Russia--Commerce)

Z/056/62/019/006/004/005
I037/I237

AUTHORS: Paton, B. and Lebedev, B

TITLE: Some results and further tasks in the field of industrialization of mounting works in steel sheet constructions

PERIODICAL: Přehled technické a hospodářské literatury, v. 19, no 6, 1962, 372, item HS 62-4710

TEXT: Introduction of mechanized welding of steel leaves 18-50 mm thick for high furnace coatings Variations in methods for the construction of the coat from the leaves, in order to have the joints favorable for mechanized welding. The evaluation of the variants. Electroslag and gas welding. Improvement of the welding instruments. The advantages of large areas prefabricated by welding of leaves in the workshop Some shortcomings and way for improvement.

Prom. Stroit, v. 40, no. 1, 1961, 1, 28-33

[Abstracters' note: Complete translation.]

Card 1/1

SWAN, H.; PATON, B.

Technic of combined hypothermia and extracorporeal circulation in operations on the heart. Vest. khir. 84 no. 4:3-8 Ap '60.
(MIRA 14:1)

(PERFUSION PUMP (HEART)) (HYPOTHERMIA) (HEART—SURGERY)

PATON, B. E.

Svarochnye golovki i pitanie ikh tokom. Kiev, AN UkrSSR, 1947. 66 p. diagrs.
Bibliography: p. 64-(65)

Welding heads and their current supply.
DLC: TK4660.P32

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

PATON, B.Ye., kandidat tekhnicheskikh nauk

Automatic arc excitation in welding under flux. Stroi.prom.25 no.2: 22 F '47. (MIRA 8:12)

1. Institut elektrosvarki imeni Akademika Ye.O.Patona, Akademiya nauk USSR

(Electric welding)

PATON, B. YE.

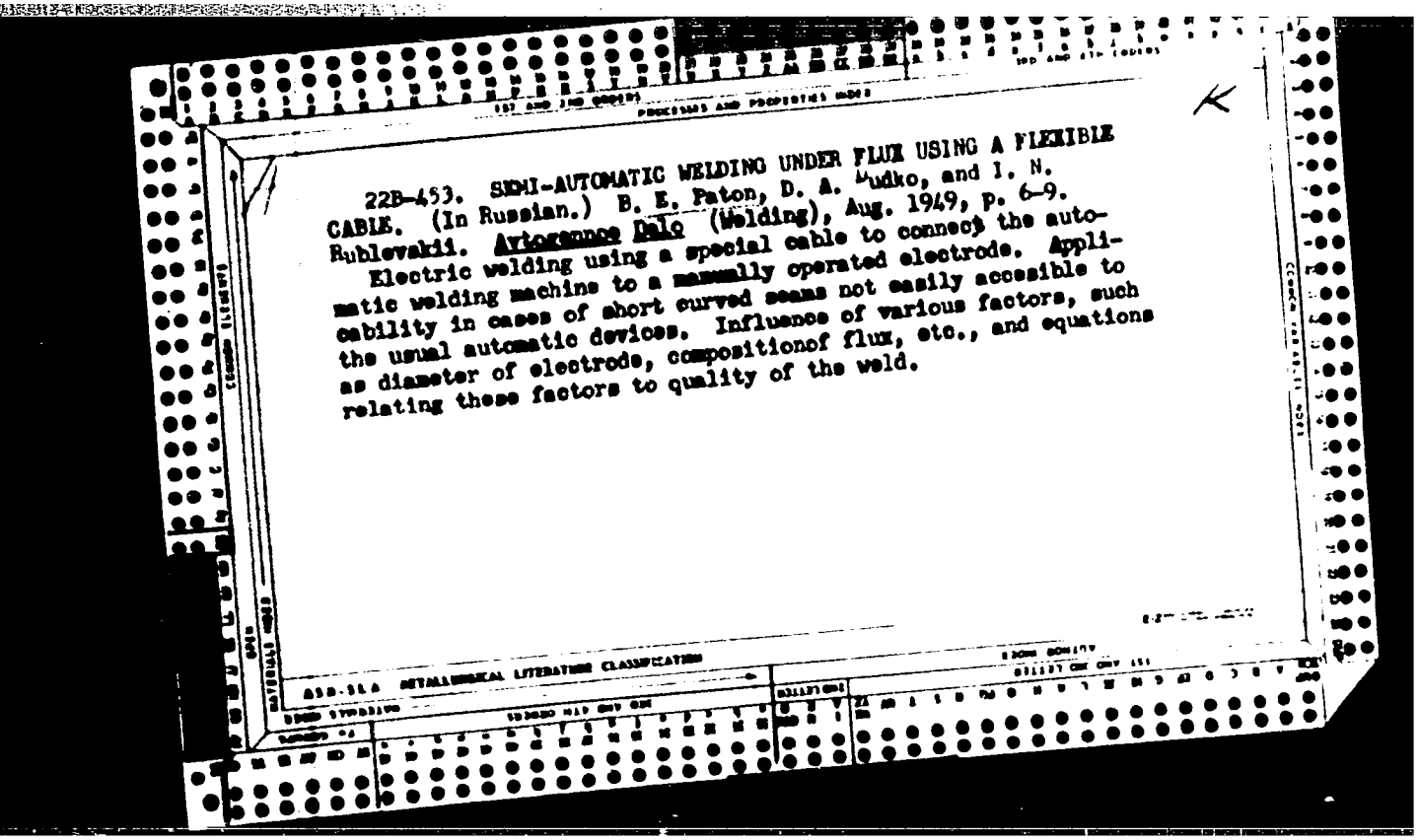
Paton, B. Ye. "The choice of [illegible] type of welding [illegible]", Trudy [illegible] konf-tsii [illegible] 1-[illegible] October 1947, Kiev, [illegible].

SO: U-32[illegible]1, 10 April [illegible], (Letopis 'Zhurnal 'nykh Statey, No. [illegible], [illegible]).

PATON, B. YE.

Paton, B. Ye. "An investig[illegible]tion of the [illegible] of electrode [illegible] welding under flux", Tr[illegible] (Paton), Collection [illegible], p. [illegible], [illegible] illus.

SO: U-32[illegible], 1[illegible] April [illegible], (Letopis [illegible] [illegible]).



22B-453. SEMI-AUTOMATIC WELDING UNDER FLUX USING A FLEXIBLE CABLE. (In Russian.) B. E. Paton, D. A. Mudko, and I. N. Rublevskii. Avtogennoe Delo (Welding), Aug. 1949, p. 6-9.

Electric welding using a special cable to connect the automatic welding machine to a manually operated electrode. Applicability in cases of short curved seams not easily accessible to the usual automatic devices. Influence of various factors, such as diameter of electrode, compositionof flux, etc., and equations relating these factors to quality of the weld.

PATON, B. Ye.

Paton, B. Ye. - "Fusion process of an electrode during automatic welding under flux," Trudy po avtomat. svarke pod flyusom (In-t elektrosvarki im. Patona), Symposium ... 1949, p. 22-38, - Bibliog: 6 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

PATON, B.Ye., LEBEDEV, V.K: PATON, Ye. O., redaktor; RAKHLINA, N.P., tekhnicheskiy redaktor.

[Elements for computing alternating-current circuits and apparatuses for electric welding] Elementy raschetov tsepei i aparatov peremennogo toka dlia dugovoi svarki. Kiev. Izd-vo Akademii nauk USSR, 1953. 143 p. (MLRA 8:8)

1. Deystvitel'nyi chlen AN USSR (for Paton, Ye. O.)
(Electric welding)

PATON, Ye.O., akademik [deceased]; LEBED', D.P., inzhener; RADZIEVICH, Ye.N., inzhener; SHUMITSKIY, O.I., inzhener; SHAPRAN, I.S., inzhener; PATON, B.Ye., otvetstvennyy redaktor; SAMOKHVALOV, Ya.A., redaktor; SIVACHENKO, Ye.K., tekhredaktor

[Use of automatic welding in the construction of a large all-welded city bridge] Primenenie avtomaticheskoi svarki pri stroitel'stve bol'shogo gorodskogo tsel'nosvarnogo mosta. Kiev, Izd-vo Akademii nauk Ukrainskoi SSR, 1954. 1954. 56 p. [Microfilm] (MLRA 7:10)

1. Chlen-korrespondent AN USSR (for Paton, B.Ye.)
(Bridges, Iron and steel) (Welding)

PATON, B.Ye.

AID P - 858

Subject : USSR/Engineering

Card 1/1 Pub. 11 - 4/13

Authors : Paton, B. Ye. and Zavadskiy, V. A.

Title : The impulse arc ignition considerably lowers the voltage of the welding transformer

Periodical : Avtom. svar., #4, 46-52, Jl-Ag 1954

Abstract : The use of impulse ignition is offered for lowering the open-circuit voltage of the welding transformer, connected either in series or parallel with the impulse generator. The welding circuit is adjusted for automatic control of the welding arc. Three circuit diagrams, 9 oscillograms and 3 Russian references (1950-1954).

Institutions: Institute of Electric Welding im. E. O. Paton Academy of Sciences, Ukrainian SSR

Submitted : My 10, 1954

PATON, B. Ye.

PATON, B.Ye.

New system of regulating a welding arc. Avtom.svar. 7 no.1:15-27 Ja-F '54. (MLRA 7:7)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Electric welding)

PATON, B.Ye.; ASNIS, A.Ye.

Some causes of deterioration of welded gas-pipeline joints due to brittleness. Avtom.svar. 7 no.3:55-58 My-Je '54.(MLRA 7:7)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Gas pipes--Welding)

PATON, B.E.

USSR/ Engineering - Welding equipment

Card 1/1 : Pub. 128 - 8/31

Authors : Sevbo, P. I., and Paton, B. E.

Title : Apparatus for automatic and semi-automatic welding, produced by Academician E. O. Paton's Institute of Electrical Welding at the Academy of Sciences of the USSR

Periodical : Vest. mash. 10, 36 - 43, Oct 54

Abstract : To facilitate and increase the production of welded components, the Academician E. O. Paton's Institute of Electrical Welding, designed and produced several types of automatic welding apparatus used for seam, bar, spot and arc welding. A description of the above mentioned apparatus is presented, together with the explanation of their operation and specifications. Illustrations; drawing.

Institution : The Academician E. O. Paton's Institute of Electrical Welding

Submitted : ....

PATON, B.Ye.

OSTROVSKAYA, Sofiya Arkad'yevna, kandidat tekhnicheskiy nauk; MANDEL'BERG, Simon L'vovich, kandidat tekhnicheskikh nauk; PATON, B.Ye., redaktor, SAMOKHVALOV, Ya.A., redaktor; RAKHLINA, N.P., tekhnicheskiy redaktor

[Welding bridge spans] Svarka proletnykh stroenii mostov. Kiev, Izd-vo Akademii nauk USSR, 1955. 217 p. (MLRA 9:1)

1. Chlen-korrespondent AN USSR (for Paton)
(Bridges, Iron and steel--Welding)

PATON, B. YE.

USSR/Engineering - Welding

Card 1/1 Pub. 11 - 4/11

Authors : Paton, B. Ye.

Title : An automatic control for electric slag-welding

Periodical : Avtom. svar. 3, 39-50, May-June 1955

Abstract : An analysis is given of an automatic control system in electric slag-welding on the bases of which a new system was introduced possessing high static and dynamic characteristics during the elimination of all disturbances. This new system consists of three independent automatic controls. Namely, an automatic control of welding voltage, an automatic control of the level of metal bath, and an automatic control of the level of slag bath. Three USSR references (1951-1955). Graphs; diagrams; drawings.

Institution : Acad. of Sc., Ukr. SSR, YE. O. Paton's Institute of Electric Welding

Submitted : March 19, 1955

PATON, B.Ye.; POPOVSKIY, O.V.

Ignitron circuit breaker with automatic device for the elimination of direct component currents. Avtom. svar. 8 no.6:42-48 N-D '55. (MLRA 9:2)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O.Patona AN USSR.
(Electric welding) (Electric circuit breakers)

PATON, B.Ye.

V 2799. Further Developments of Automatic Welding. Za dal'neishee razvitie avtomaticheskoi svarki. (Russian.) B. E. Paton. Svarochnoe proizvodstvo, 1955, no. 11, Nov., p. 3-8. Operation and applications of the up-to-date Russian welding machines and devices, including mobile welding units for semi-submerged arc welding of thick-sheet Al and its alloys. Photographs, diagrams.

PATON, B.Ye., redaktor; ZARUBA, I.I., kandidat tekhnicheskikh nauk, retsenzent; ZALOGIN, N.S., redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Handbook of electric submerged melt welding] Elektroshlakovaia svarka. Pod red. B.E.Patona. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1956 . 165 p. (MLRA 9:10)

1. Akademiya nauk URSR, Kiev. Institut elektrozvarivannia. 2. Chlen-korrespondent AN USSR (for Paton)
(Electric welding)

PATON, B.E., doktor tekhnicheskikh nauk, redaktor; LEUTA, V.I., inzhener, redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Problems in arc and contact electric welding; a collection dedicated to the memory of E.O.Paton] Problemy dugovoi i kontaktnoi elektrosvarki; sbornik posviashchennyi pamiati E.O.Patona. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 318 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk USSR (for Paton)
(Electric welding)

SOV/137-57-6-10246

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 122 (USSR)

AUTHOR: Paton, B.Ye.

TITLE: Potential Pulses Strike the Arc and Control the Conditions of Welding (Impul'snoye zazhiganiye dugi i regulirovaniye rezhima svarki)

PERIODICAL: V sb.: Probl. dugovoy i kontakt. elektrosvarki. Kiyev-Moscow. Mashgiz, 1956, pp 242-254

ABSTRACT: As seen from an analysis of the operation of basic control systems employed in welding, the most expedient and economical of all systems examined employs automatic regulation of the arc voltage (V) and also governs the V in the welding circuit. The arc current is determined by the rate of feed of the electrode rods; since the open-circuit V at the terminals is always greater than a certain prescribed value, constant conditions required for re-excitation of the arc may be maintained; an open-circuit potential of >70 v is sufficient to ensure reliable re-excitation of the arc during welding operations performed with AN-348A flux; 75-80 volts are required if flux OSTs-45 is employed. A reduction of welding transformer V extremely advisable since, in addition to reducing the rated capacity,

Card 1/3

Potential Pulses Strike the Arc and Control the Conditions of Welding

it permits increasing the power factor of the welding apparatus. Standard transformers employed in manual arc welding and having a relatively low open-circuit potential may be employed in submerged-arc welding, providing pulse voltages are generated in the welding circuit ensuring reliable re-excitation of the arc. By connecting the welding circuit in series with a generator synchronized for re-excitation of the arc and capable of producing pulses of extremely short duration, these potential pulses may be superimposed on the conducting flux sheath which shunts out the arc during its re-excitation periods. Experiments fully confirm the possibility of reducing the open-circuit terminal V of the welding transformer to a value of 40-50 volts if the method of pulsed arc ignition is employed. A novel system of arc regulation is proposed. The electrode is fed into the arc zone at a constant rate. A booster transformer is connected into the circuit with the aid of two ignitrons connected in anti-parallel; this arrangement permits smooth regulation of effective V and ensures good dynamic characteristics of the control system. The regulated V is compared against the given V. The resulting potential difference is amplified and fed into a phase-shifting bridge circuit which controls a network of two thyratrons connected in the igniter-electrode circuits of the ignitrons. Whenever necessary, voltage-regulating components may be included in the circuit. The system described completely covers the entire "safety

Potential Pulses Strike the Arc and Control the Conditions of Welding

margin of regulation" between two limiting instances: Periods of continuous operation of the ignitrons (in the case of greatest permissible reduction of V disturbances resulting in shortening of the arc) or periods when the ignitrons are entirely disconnected.

Reviewers initials not given

Card 3/3

PERIODICAL ABSTRACTS

AID 4196 - P

Sub.: USSR/Engineering

PATON, B. E., O. S. ZABARILO and V. G. UBEL'

PRIMENENIYE OKHLAZHDAYEMYKH METALLICHESKIKH KOKILEY DLYA VYPLAVKI FLYUSA V ELEKTROPECHAKH (Adaptation of Cooled Metal Chill Moulds for Smelting Flux in Electric Furnaces). Avtomaticheskaya svarka, no. 1, Ja/F 1956: 65-69.

The authors describe their experiments with smelting of fluxes in electric furnaces at the Institute of Electric Welding im. Paton. They used plain and fettled water-cooled metal chill moulds, and found that the latter method presents certain advantages. At Khartzyzsk (Stalinskaya Oblast) Tubing Plant similar experiments were made in smelting the AN-11 pumiceous flux, and it was discovered that carbonic fettling in their 1/2-ton 3-phase electric furnaces could be eliminated by an increase of the transformer capacities and construction of efficient metal chill moulds. Three tables and two drawings.

AID P - 4830

Subject : USSR/Engineering

Card 1/1 Pub. 11 - 3/13

Authors : Paton, B. E. and V. A. Zavdskiy

Title : Impulse arc ignition in automatic and manually operated induction arc welding.

Periodical : Avtom. svar., 3, 26-35, Mr 1956

Abstract : The authors describe an open arc impulse ignition in automatic and semi-automatic shielded arc welding. They present two impulse generator circuits, and results of several experimental weldings with the appropriate deductions. Eight oscillograms, 4 drawings and 1 photo. Two Russian references (1951-54).

Institution : Electrowelding Institute im. Paton

Submitted : 5 Ja 1956

AID P - 5052

Subject : USSR/Engineering-Welding

Card 1/2 Pub. 107-a - 1/9

Author : Paton, B. E., Director of the Electrowelding Institute im. E. O. Paton, Corr. memb., Ukrainian SSR Academy of Sciences.

Title : The initial results of resistance slug welding and the outlook for its further development.

Periodical : Svar. proizv., 5, 1-6, My 1956

Abstract : The author presents a concise report on automatic resistance slug welding of thick metals as developed in the Electrowelding Institute and implemented by many industrial enterprises of the USSR. Briefly describing the experiences of various plants in this new branch of electrowelding of large and thick metal pieces, he provides numerous illustrations of the technique, specimens and equipment used. Some shortcomings of the

AID P - 5052

Svar. proizv., 5, 1-6, My 1956

Card 2/2 Pub. 107-a - 1/9

process are indicated and needed improvements are suggested. Twelve photos.

Institutions : Electrowelding Institute im. E. O. Paton, Central Scientific Research Institute of Machine-Building Technology (TSNIITMASH), and Scientific Research Institute of Chemical Machine Building (NIIKhIMMASh).

Submitted : No date

PATON, B.Ye.

New development in electric welding. Nauka i zhizn' 23 no.4:17-20 Ap '56. (MLRA 9:7)

1.Chlen-korrespondent Akademii nauk USSR, direktor Instituta elektrosvarki imeni Ye.O.Patona Akademii nauk USSR.
(Electric welding)

PATON, Boris Yevgen'yevich; LISENKO, F.K., redaktor

[Electric welding and built-up welding are important means of saving metal] Elektrychne zvariuvannia i naplavka - mohutnii zasib ekonomii metalu. Kyiv, Tovarystvo dlia poshirennia polit. i naukovykh znan' URSR, 1957. 33 p. (MLRA 10:7)

1. Chlen-korrespondent AN URSR (for Paton)
(Electric welding)

PATON, B.Ye.

KIRDO, Ivan Viktorovich; PATON, B.Ye., otvetstvennyy red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhn red.

[Soldering of metals] Paika metallov. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 45 p. (MIRA 11:7)
(Solder and soldering)

PATON, B.Ye.

PODGAYETSKIY, Vladimir Vladimirovich; PATON, B.Ye., otvetstvennyy red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., kand. tekhn. nauk, red.; RUDKINSKIY, Ya.V., tekhn. red.

[Quality control of welded joints] Kontrol' kachestva svarnykh soedinenii. Kiev, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry, 1957. 52 p. (MIRA 11:7)

(Welding--Testing)

PATON, B.Ye. [Paton, B.I....], akademik

Introductory speech: a year of strenuous work for Ukrainian scientists. (MIRA 17:1...)
Dop. AN URSR no.3:288-294 '63.

1. President AN Ukrainian.

PATON, B.Ye., akademik, red.

[New problems in welding; collection of articles celebrating the 30th anniversary of the E.O.Paton Institute of Electric Welding, of the Academy of Sciences of the U.S.S.R.] Novye problemy svarochnoi tekhniki; sbornik statei v oznamenovanie 30-letiia Instituta elektrosvarki im. E.O.Patona AN USSR (1934-1964. Kiev, Tekhnika, 1964. 477 p. (MIRA 18:2)

1. Akademiya nauk URSR, Kiev. Instytut elektrozvaruvannia.

L 32013-65 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4 ASIM3 JD/HW/WB
ACCESSION NR: AP4049134 S/0020/64/159/001/0072/0073

AUTHOR: Paton, B. Ye. (Academician); Medovar, B. I.; Kirdo, I. V.; Puzrin, L. G.; Boyko, G. A.; Lutsyuk-Khudin, V. A.

TITLE: Spontaneous cleaning of oxide films from metal surfaces

SOURCE: AN SSSR. Doklady*, v. 159, no. 1, 1964, 72-73

TOPIC TAGS: carbon steel, chromium nickel steel, air oxidation, oxide film, spontaneous film disappearance, steel self cleaning

ABSTRACT: Oxide films were observed to disappear spontaneously from the surfaces of many steels and alloys to which the access of air had been cut off. Thus, oxide films on the air-oxidized inner surface of a hermetically sealed container made of carbon or Cr-Ni steel completely disappeared when the container was heated at 1000 to 1300C for several minutes. A similar self-cleaning tendency was observed on carbon- or Cr-Ni-steel foil placed in such a container. The air pressure inside the container at first rises during the heating process and then drops abruptly to approximately 1 mm Hg,

Card 1/2

L 32013-65
ACCESSION NR: AP4049134

3

where it remains almost unchanged. It is difficult, as yet, to give an exact theoretical explanation for the phenomenon observed. It can only be assumed that at a high temperature the presence of atmospheric nitrogen and oxygen in a solid metal is thermodynamically more stable when these gases are dissolved in the metal than when they are in the form of oxides and nitrides on the metal's surface. The authors recommend a further study of this phenomenon. At present, it can be used in various fusionless welding methods for soldering under pressure, in the production of bimetallic parts by hot rolling, in descaling, etc. Orig. art. has: 3 figures.

18

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Electric Welding Institute, AN UkrSSR)

SUBMITTED: 23Jul64 ENCL: 00 SUB CODE: MM, TD

NO REF SOV: 001 OTHER: 000 ATD PRESS: 3145

Card 2/2

SOV/1456

PHASE I BOOK EXPLOITATION

25(1)

Paton, Boris Yevgen'yevich

Sovremennaya s varochnaya tekhnika (Modern Welding Techniques) Kiyev, Mashgiz, 1957. 99 p. (Series: Biblioteka svarshchika) 6,000 copies printed.

Sponsoring Agency: Akademiya nauk UkSSR, Kiyev. Institut elektrosvarki.

Ed.: B.I. Medovar, Candidate of Technical Sciences; Tech. Ed.: Ya.V. Rudenskiy; Editorial Board: A.Ye. Asnis, A.A. Kazimirov, B.I. Medovar, Candidate of Technical Sciences, B.Ye. Paton (Resp. Ed.), and V.V. Podgayetskiy; Managing Ed. (Ukrainian Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for welders and those interested in welding and welding techniques.

COVERAGE: The book contains a survey of welding methods used in Soviet industry. It is stated that welding is rapidly replacing riveting and is finding new industrial applications. The methods in current use are explained and illustrated with mmerous photographs and diagrams. Problems of mechanizing welding operations are discussed. New applications of welding include the production

Card 1/3

of pipes for pipelines, welding of large-size tanks and containers, shipbuilding, and high-integrity pipewelding for nuclear power stations. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

GO/mas
5-5-59

Card 3/3

PATON, B.Ye., doktor tekhnicheskikh nauk, redaktor; TROCHUN, I.P., kandidat tekhnicheskikh nauk, retsenzent; SERDYUK, V.K., inzhener, redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Manual for electric arc welding under flux] Rukovodstvo po elektrodugovoi svarke pod fliusom. Pod red. B.E.Patona. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 235 p. (MLRA 10:6)

1. Akademiya nauk URSR, Kiyev. Institut elektrosvaryuvannya.
2. Chlen-korrespondent Akademii nauk USSR (for Paton)
(Electric welding)

PATON, B.

Soviet welding technique at the 40th anniversary of Great October Socialist Revolution. Tr. from the Russian.

P. 321. (ZVARANIE.) (Bratislava, Czechoslovakia) Vol. 6, No. 11, Nov. 195

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

PATON, B.Ye. [Paton, B.IE.], laureat Leninskoy premii

New developments in electric welding. Nauka i zhyttia 7 no.6:9-12 Je '57. (MIRA 12:10)

1.Chlen-korrespondent AN USSR.
(Electric welding)

AUTHOR: Paton, B. Ye. Corresponding member of Ukrainian AS Ukrainian SSR 30-10-10/26

TITLE: Problems of Electric Welding of Metals (Problemy elektrosvarki metallov).

PERIODICAL: Vestnik AN SSSR, 1957, October, Nr 10, pp. 80-85 (USSR)

ABSTRACT: Recently a process was elaborated for welding titanium and its alloys which are irreplaceable materials for aircraft- and naval construction by means of a fluxing agent which is substantially more effective than arc-welding under protective gas.
A new automatic welding process was developed for thick-walled aluminum sheets. Due to this process aluminum can now be used also in the chemical industry and for transportation.

These and other successes are due to the fact that quite new methods of investigation were both developed and applied. (Radioactive indicators, local spectroscopic analysis, auto-radiography, vacuum-metallography).
A special success can be registered with respect to an increased corrosion resistance of welding seams.
The introduction of a new automatic control device with

Card 1/2

arc-welding, makes it possible to weld very large pieces with great wall thicknesses together. Thicknesses of 200 mm and more are perfectly performed.
The development of the "electric-slag" process takes a particular vast space in the manufacture of bi-metals of great dimensions.
Induction welding is a new method for carrying out various weldings. Remarkable successes were achieved with this new method.
Satisfactory results were also obtained by an other new welding process, the electric contact process.
There are 2 figures.

AVAILABLE: Library of Congress

PATON, B.Ye.; KUCHUK-YATSENKO, S.I.; POPOVSKIY, O.V.

Ignitron regulators of butt welding. Avtom. svar. 10 no.1: 55-62 Ja-F '57. (MLRA 10:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.
(Electric welding) (Voltage regulators)

PATON, B.Ye.; DUDKO, D.A.

Welding in Czechoslovakia. Avtom. svar. 10 no.1:103-116 Ja-F '57. (MLRA 10:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.
(Czechoslovakia--Electric welding)

PATON, B.Ye., doktor tekhnicheskikh nauk.

Electric welding in a gas-shielded atmosphere and efficient fields for its use. Avtom.svar. 10 no.3:1-8 My-Je '57. (MLRA 10:8)

1. Ordena Trudovogo Krasnogo znameni Institut elektrosvarki imeni Ye. O. Patona Akademii nauk U.SR.
(Electric welding)
(protective atmospheres)

PATON, B.

KAZIMIROV, A.A.; LEBEDEV, V.K.; PATON, B.Ye.; SEVBO, P.I.

Welding in the German Democratic Republic. Avtom.svar. 10 no.4:91-104 Jl-Ag '57. (MIRA 10:10)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O.Patona Akademii nauk USSR.
(Germany, East--Welding)

PATON, B.Ye.; LEBEDEV, V.K.

Prospects for the use of high-frequency currents in welding. Avtom. svar. 10 no.5:9-18 S-O '57. (MIRA 10:12)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.

(Electric welding)

PATON, B.Ye.; GORBUNOV, G.V.; LEBEDEV, V.K.; OSTAPENKO, N.G.; LITVINCHUK, M.D.

Resistance welding of main pipelines. Avtom.svar. 10 no.6:19-27 N-D '57. (MIRA 11:1)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.
(Electric welding) (Pipelines--Welding)

PATON, B Ye.

PATON, B.Ye., laureat Leningskoy premii

Automatic welding under flux. Svar.proizv.no.11:17-21 N '57.
(MIRA 10:12)

1. Chlen-korrespondent AN USSR.
(Electric welding)

137-58-6-11784

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 83 (USSR)

AUTHORS Paton, B.Ye., Medovar, B.I., Latash, Yu.V.

TITLE Electrical Smelting of High-alloy Steels and Alloys in a Water-cooled Crystallizer (Elektricheskaya vyplavka vysokolegirovannoy stali i splavov v vodookhlazhdayemom kristallizatore)

PERIODICAL Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 623-628

ABSTRACT The Electric Welding Institute im. Ye.O. Paton of the Academy of Sciences, Ukrainian SSR, has developed a method of making ingots by continuous build-up of metal in a water-cooled copper crystallizer, using an arcless electrical slag welding process. The heat source is fused electrically-conductive slag, through which an electric current is passed from a consumable electrode to the ingot. Wires of 5-8 mm diameter may be used as the electrodes. The alloying elements are introduced in the form of wire or granules. The electrode and the alloys, immersed in the slag, attain a temperature of up to 2000°C, fuse, and form an ingot. The ingot descends as it builds up. The consumption of slag-formers as 1-2% of the

Card 1/2

Electrical Smelting of High-alloy (cont.)

weight of the ingot. This method may also be used to cast hollow ingots for tube manufacture. An equipment, the R-813, has been developed to cast round solid and hollow ingots of 135-300 mm diameter, 1500 mm in length, at an output of 150 kg/hr. If the composition of the smelted steel includes Ti or Al, the slags used contain CaF_2-CaO-Al_2O_3 compounds. The m.p. and viscosity of the slag have a significant effect on the surface quality of the ingot produced. The longitudinal orientation of the crystals and the absence of axial porosity, scabs, and cracks contribute to make this a metal of optimum plasticity in hot mechanical treatment. The area of application of this method is the production of tough and resilient steels and alloys.

V.B.

1. Steel--Production 2. Alloys--Production 3. Alloys--Casting 4. Steel--Casting
5. Electrical equipment--Applications

Card 2/2

PETROV, A.K.; SPERANSKIY, V.G.; KHIZHNICHENKO, A.M.; SHILYAYEV, B.A.; DANILOV, A.K.; BORODULIN, G.M.; ZAMOTAYEV, S.P.; MARKARYANTS, A.A.; SOLNTSEV, P.I.; SMIRNOV, Yu.D.; VAYNBERG, G.S.; OKOROKOV, N.V.; KOLOSOV, M.I.; SEL'KIN, G.S.; MEDOVAR, B.I.; LATASH, Yu.B.; YEFROYMOVICH, Yu.Ye.; VINOGRADOV, V.M.; SVEDE-SHVETS, N.N.; SKOROKHOD, S.D.; KATSEVICH, L.S.; SHTROMBERG, Ya.A.; MIKHAYLOV, O.A.; PATON, B.Ye.

Reports (brief annotations). Biul. TSNIICHM no.18/19:67-68 '57. (MIRA 11:4)

1. Zavod Dneprospetsstal' (for Speranskiy, Borodulin). 2. Chelyabinskiy metallurgicheskiy zavod (for Khizhnichenko). 3. Uralmashzavod (for Zamotayev). 4. Trest "Elektropech'" (for Vaynberg). 5. Moskovskiy institut stali (for Okorokov). 6. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Sel'kin, Svede-Shvets). 7. Institut elektrosvarki AN USSR (for Paton, Medovar, Latash). 8. TSentral'naya laboratoriya avtomatiki (for Yefroymovich, Vinogradov). 9. Gisogneupor (for Skorokhod). 10. Trest "Elektropech'" (for Katsevich). 11. Tbilisskiy nauchno-issledovatel'skiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shtromberg).

(Steel--Metallurgy)

PATON, B.Ye., laureat Leninskoy premii.

Welding in machinery construction. Vest.mash. [37] no.11:56-61 N '57. (MIRA 10:10)

1.Chlen-korrespondent AN USSR.
(Welding) (Machinery--Construction)

SEVBO, Platon Ivanovich; PATON, B.Ye., otv.red.; ASNIS, A.Ye., red.; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhn.red.

[Equipment for welding under flux] Oborudovanie dlia svarki pod fliusom. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 67 p. (MIRA 12:5)
(Electric welding--Equipment and supplies)

ASNIS, Arkadiy Yefimovich; PATON, B.Ye., otv.red.; KAZIMIROV, A.A., kand.tekhn.nauk, red.vypuska; MEDOVAR, B.I., red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhn.red.

[Gas welding and cutting] Gazovaia svarka i rezka. Kiev, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 86 p. (MIRA 12:5)
(Gas welding and cutting)

MEDOVAR, Boris Izraylevich; PATON, B.Ye., otv.red.; ASNIS, A.Ye., kand.tekhn. nauk, red.; KAZIMIROV, A.A., red.; PODGAYETSKIY, V.V., red.; RUDENSKIY, Ya.V., tekhred.

[Electric arc welding of austenitic steels] Elektrodugovaia svarka austenitnykh stalei. Kiev, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 97 p. (MIRA 12:2)
(Steel alloys--Welding)

FHICN, by

11(4) PHASE I BOOK EXPLOITATION SOV/1868

Nauchno-tekhnicheskoye obshchestvo neftyanoy promyshlennosti

Puti razvitiya gazovoy promyshlennosti SSSR; materialy Vsesoyuznogo soveshchaniya (Trends in the Development of the Gas Industry in the USSR; Materials Presented at the All-Union Conference) Moscow, Gostoptekhizdat, 1958. 432 p. 3,000 copies printed.

Eds: A.D. Brents, B.S. Itsikson, P.G. Komissarov, Ye.A. Krems, V.I. Popov, V.N. Raaben, N.I. Ryabtsev, P.A. Tesner, A.S. Pal'kevich; Exec. Eds.: N.I. Stepanchenko and M.M. Novikova; Tech. Ed.: E.A. Makhina; Editorial Board: M.V. Sidorenko (Chief Ed.), K.S. Zarembo, Ye.A. Krems, V.N. Raaben, and N.I. Ryabtsev.

PURPOSE: The book is intended for specialists engaged in the production and gathering of natural gas, the extraction of gas from coal and shale, the construction and operation of trunk gas pipelines, gas supply to cities, and the processing of gas.

Card ~~1/11~~

Trends in the Development of the Gas (Cont.) SOV/1868

COVERAGE: The authors review the basic trends in the development of the USSR gas industry, the prospecting and exploration of new gas deposits, the gasification of solid fuels, the gathering and utilization of natural gas, the automation of gas field operations, the exploitation of gas wells, and ways to increase output. They further discuss the processing of natural gas with application of refrigeration, the experience gained in the laying and operating of trunk gas pipelines, the automation of gas pipeline operation, and underground gas storage facilities. There are no references.

TABLE OF CONTENTS:

Card 2/11

PATON, B.Ye.

Production of large diameter welded pipes in the German Federal Republic. Avtom. svar. 11 no.2:92-96 F '58. (MIRA 11:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR.
(Germany, West—Pipe, Steel—Welding)

PATON, B. Ye.

125-58-4-1/15

AUTHOR: Paton, B. Ye., Doctor of Technical Sciences

TITLE: Some Problems in the Field of Automatic Control of Welding Processes (Nekotoryye zadachi v oblasti avtomaticheskogo regulirovaniya svarochnykh protsessov)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 4, pp 3-9 (USSR)

ABSTRACT: The author treats in general terms the advantages and the possible applications of the modern automatic control system (program devices, optimalizing devices, elements of computing and logic systems) in the fields of automated electric arc, electric slag and electric contact welding. Examples of practical application are briefly described. The prevailing opinion that complex automatic control systems are of no interest for welding processes is considered to be wrong.
There are 3 figures.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR)

SUBMITTED: February 3, 1958
AVAILABLE: Library of Congress
Card 1/1