26852
S/137/62/000/004/182/201
A154/A101

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AUTHORS: Bogdanov, V.N., De-Millo, P.G.

TITLE: Butt-welding parts with a solid cross-section by the induction heating method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 71, abstract 4E399 (Sb. "Prom. primeneniye tokov vysokoy chastoty v elektrotermii". M.-L., Mashgiz, 1961, 74 - 77)

TEXT: Work carried out by NIITVCh in welding parts with a solid cross-section by induction heating was concentrated on producing 35 x 65, 35 x 75 and 50 x 90 flanges from grade 3 strip steel. The described induction heating method is based on the use of the "proximity" effect. The inductor is made in the form of 2 shorted loops, connected on one side by a jumper, on the other side the inductor is connected up to the supply source. The ends of the item to be butt-welded are placed inside the induotor loops, a certain gap being left between them. The magnetic flux created by the current flowing in the inductor loops in opposite directions induces in the metal ends to be butted currents flowing in opposite directions to those in the loops, but also opposite to each

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Butt-welding parts with....

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other. As the current in the surfaces facing each other flows in opposite directions, it becomes concentrated on these surfaces, due to the proximity effect, thereby producing intense and fairly even liberation of heat at the weld between the metals. During the process of experimentation, the following main welding parameters were established: 1. The initial gap between the butt ends should be 3 - 4 mm. 2. The gap between the inductor and the workpiece should ensure high efficiency of the inductor and can be taken as 4 - 5 mm. 3. The upsetting process is characterized by the speed, linear magnitude of upsetting, and upsetting pressure. The upsetting speed for the examined cross-section should be $\geqslant$ 15 - 20 mm/sec. The linear magnitude of upsetting should be 4 - 6 mm. For grade 3 steel the specific upsetting pressure can be taken as 4 - 5 kg/cm^2. 4. When welding 35 x 65 mm parts in 30 - 35 sec the power consumed under a hot regime is 65 kw. With increasing cross-section the power consumption and time also increase.

V. Tarisova

[Abstracter's note: Complete translation]

Card 2/2

BOGDANOV, V.N., kand.tekhn.nauk; ROMASHEV, D.G., inzh.

Design of flexible shells for "sheet"-type embankments. Trudy LIVT no.19:21-26 '61. (MIRA 14:9)
(Embankments) (Sheet piling)

BOGDANOV, V.N., kand.tekhn.nauk

Stability of embankments in the form of thin anchored walls.
Trudy LIVT no.19:27-32 '61. (MIRA 14:9)
(Embankments) (Hydraulic engineering)

BOGDANOV, V. N.

PHASE I BOOK EXPLOITATION SOV/6216

Glukhanov, Nikolay Parmenovich, and Valentin Nikolayevich Bogdanov

Svarka metallov pri vysokochastotnom nagreve (High-Frequency Welding of Metals). Moscow, Mashgiz, 1962. 189 p. 7000 copies printed.

Reviewer: A. A. Alekseyev, Professor; Ed.: K. A. Kochergin, Candidate of Technical Sciences; Eds. of Publishing House: R. N. Onishchenko and N. Z. Simonovskiy; Tech. Ed.: M. M. Peterson; Managing Ed. for Literature on the Design and Operation of Machines, Leningrad Department, Mashgiz: F. I. Fetisov, Engineer.

PURPOSE: This book is intended for engineering personnel of machine-building and metallurgical plants, as well as of scientific research and planning institutes.

COVERAGE: The book reviews physical phenomena utilized in heating metal with high-frequency current in the welding process. Conditions for the high-frequency welding of various articles are

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discussed and designs of welding machines described. Induction butt welding of tubes and solid sections is also described, along with tube making by induction and radiofrequency welding and other technological processes. No personalities are mentioned. There are 23 references: 17 Soviet and 6 English.

TABLE OF CONTENTS:

BOGDANOV, V.N., inzh.; PEYSAKHOVICH, V.A., inzh.

Use of induction heating in the production of sheet steel. Sbor. trud. TSNIICHM no.28:197-211 '62. (MIRA 15:11)
(Tin plating) (Induction heating)

TIKHOMIROV, V.I., doktor khim. nauk; GORBUNOV, S.A., inzh.; FEDOROV, A.K., inzh.; BOGDANOV, V.N., inzh.

Character of nonmetallic inclusions during the butt welding of pipe heated by high-frequency currents. Svar. proizv. no.11:10-12 N'63. (MIRA 17:5)

1. Leningradskiy ordena Lenina gosudarstvennyy universitet imeni A.A. Zhdanova (for Tikhomirov, Gorbunov). 2. Nauchno-issledovatel'skiy institut tokov vysokoy chastoty im. V.P. Vologdina (for Fedorov, Bogdanov).

BOGDANOV, V.N.; LIPNITSKIY, A.M.; RUSSIYAN, S.V.; SVERDLOV, V.I.; STEPANOV, N.P.; VYSHEMIRSKIY, M.M., inzh., retsenzent

[Design of fully mechanized automated iron foundries] Proektirovanie kompleksno mekhanizirovannykh i avtomatizirovannykh chugunoliteinykh tsekhov. Pod red. S.V.Russiiana. Moskva, Mashinostroenie, 1964. 322 p. (MIRA 17:10)

ACCESSION NR: AP4029388 S/0135/64/000/004/0030/0031

AUTHOR: D'yachkov, V. I. (Engineer); Fedorov, A. K. (Engineer); Bogdanov, V. N. (Engineer); Tikhomirov, V. I. (Doctor of Chemical Sciences)

TITLE: A method of protecting seams from oxidation in welding pipes by high frequency currents

SOURCE: Svarochnoye proizvodstvo, no. 4, 1964, 30-31

TOPIC TAGS: oxidation, welding, high frequency current, cellulose, nitrocellulose, cellophane

ABSTRACT: The authors included a means of supplying a heated surface with organic substances, with which the products of thermal dissociation combine oxygen in stable chemical compounds, thereby avoiding metal oxides in the weld seams which lower the mechanical strength. This may be accomplished by a gas medium formed by the dissociation products of cellophane and nitrocellulose. This medium has good protective properties and does not cause carbonization of the metal in the heating zone. The authors conclude that the best regime for welding No. 10 and No. 20 pipes with high-frequency currents (induction heating) with the above-mentioned protective media is by heating to 1280-1300°C after first dressing the surfaces to be welded. The

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ACCESSION NR: AP4029388

amount of the protective material must not be too great. Orig. art. has: 2 figures

ASSOCIATION: NIITVCh im. V. P. Vologdina

SUBMITTED: 00 DATE ACQ: 28Apr64 ENCL: 00

SUB CODE: ML NO REF SOV: 002 OTHER: 000

Card 2/2

MARSHAKOV, I.K.; BOGDANOV, V.N.

Mechanism of the dissolution of copper and brass in concentrated inorganic acid solutions. Izv. vys. ucheb. zav.; tsvet. met. 7 no.6:116-120 '64. (MIRA 18:3)

1. Voronezhskiy gosudarstvennyy universitet, kafedra fizicheskoy khimii.

[redacted]

[redacted]-MOY, V.N.

Designing foundries for sanitary engineering equipment plants.
Lit.proizv. no.7:14-19 Jl '64. (MIRA 18:4)

BOGDANOV, V.N.; DONSKOY, A.V., doktor tekhn. nauk, retsenzent; FOGEL', A.A., kand. tekhn. nauk, red.

[High-frequency welding of metals] Vysokochastotnaia svarka metallov. Pod red. A.A.Fogelia. Moskva, Mashinostroenie, 1965. 65 p. (Bibliotechka vysokochastotnika termista, no.11) (MIRA 19:1)

BOGDANOV, V. N.

TITKOV, V. I.; BOGDANOV, V. N.; MAKAROV, A. I.

[Planning and construction of petroleum tank farms] Proektirovanie i stroitel'stvo neftebaz. Moskva, Gos. nauchno-tekh. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1953. 424 p. (MLRA 8:9)
(Petroleum--Storage)

BOGDANOV, V. N.

AID P - 2728

Subject : USSR/Engineering

Card 1/1 Pub. 78 - 25/27

Author : *Aranovich, D.*

Title : Titkov, V. I., Bogdanov, V. N. and Makarov, A. I. Proyektizovaniye i stroitel'stvo neftebaz planning and building of oil-bases 1953 (Review)

Periodical : Neft. khoz. v. 33, #6, 92-94, Je 1955

Abstract : The reviewed book deals with all the aspects of planning oil depots, small and large, and in its second part treats construction materials and building procedures, also plans of various types of oil storage and tanks.

Institution : None

Submitted : No date

BOGDANOV, V. N.

15-57-1-1052D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1, p 168 (USSR)

AUTHOR: Bogdanov, V. N.

TITLE: Stability Analysis of Sloping Soil Masses (Analiz ustoychivosti zemlyanykh mass obkosnogo profilya)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Science, presented to the Leningrad Engineering Institute for Water Transportation (Leningr, in-t inzh. vod. trans.), Leningrad, 1956.

ASSOCIATION: Leningr. in-t inzh. vod. trans. (Leningrad Engineering Institute for Water Transportation)

Card 1/1

GLUKHANOV, Nikolay Parmenovich; BOGDANOV, Valentin Nikolayevich; ALEKSEYEV, A.A., prof., retsenzent; KOCHERGIN, K.A., kand. tekhn. nauk, red.; ONISHCHENKO, R.N., red. izd-va; SIMONOVSKIY, N.Z., red. izd-va; PETERSON, M.M., tekhn. red.

[Welding metals with high-frequency heating] Svarka metallov pri vysokochastotnom nagreve. Moskva, Mashgiz, 1962. 189 p. (MIRA 15:11)

(Metals--Welding) (Induction heating)

BOGDANOV, V.P., inzh.; ZUBAROV, D.L., inzh.

Using high-strength cast iron in shipbuilding. Sudostroenie 29 no.6:57-59 Je '63. (MIRA 16:7)
(Shipbuilding materials) (Cast iron)

L 1344-66 EWT(m)/EWP(b)/T/EWP(t) JD

ACCESSION NR: AP5024379 UR/0286/65/000/015/0065/0065
621.365.51-418

AUTHOR: Bogdanov, V. N.; Peysakhovich, V. A.; Paradnya, P. A.

TITLE: An induction heating method. Class 21, No. 173352

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 65

TOPIC TAGS: transverse magnetic field, heating, metal

ABSTRACT: This Author's Certificate introduces an induction method for heating a moving metal band in a transverse magnetic field. The band is heated uniformly all the way across by induction of an emf at the edges of the band which is in antiphase to the emf generated by the transverse magnetic field.

ASSOCIATION: none

SUBMITTED: 19Sep63 ENCL: 00 SUB CODE: EM

NO REF SOV: 000 OTHER: 000

Card 1/1

BOGDANOV, V.P.

Use of bimetal tubes in shipbuilding. Sudostroenie 26 no. 11:55-58 N '60. (MIRA 14:1)
(Marine pipe fitting) (Laminated metal)

HOWARTH, L., editor; BUNIMOVICH, A.I.[translator]; VISHNEVETSKIY, S.L. [translator]; YELISEYEVA, Yu.B. [translator]; CHERNYY, G.G., redaktor; BOGDANOV, V.P., tekhnicheskiy redaktor

[Modern developments in fluid dynamics; high speed flow. Translated from the English] Sovremennoe sostoianie aerodinamiki bol'shikh skorostei. Perevod s angliiskogo A.I.Bunimovicha, S.L.Vishnevetskogo i IU.B.Eliseeva. Pod red. G.G.Chernogo. Moskva, Izd-vo inostrannoi lit-ry. Vol.2. 1956. 382 p. (MIRA 9:7)
(Fluid dynamics)

BOGDANOV, V.P.; PAVOROV, B.P., inzh.

Introduction of plastics into shipbuilding. Sudostroenie 27 no.2:53-55 F '61. (MIRA 16:7)

(Shipbuilding—Equipment and supplies)
(Plastics)

BOGDANOV, Vladimir Pavlovich; FAVOROV, B.P., inzh., retsenzent; DYUFUR, A.A., inzh., retsenzent; [illegible] KITINA, K.D., red.

[Economy of nonferrous metals in shipbuilding (in the design of ship systems and piping)] Ekonomiia tsvetnykh metallov v sudostroenii (pri proektirovanii sudovykh sistem i truboprovodov). Leningrad, Sudostroenie, 1965. 129 p.
(MIRA 18:9)

BOGDANOV, V.P.

Method of determining the mobility of foreign bodies in the bronchi. Vest. otorinolar. No.3:74-75 May-June 50. (CLML 19:4)

1. Of the LOR (Otorhinolaryngological) Clinic (Head — Prof. A.I. Geshelin) of Odessa Medical Insitute.

USSR/Medicine - Novocain Block Sep/Oct 51

"Vishnevskiy's [Novocain] Block for Removal of Foreign Objects in the Esophagus," V. P. Bogdanov, Cand Med Sci, Clinic for Diseases of Ear, Nose, and Throat, Odessa Med Inst

"Vest Oto-Rino-Laringol" No 5, pp 75-77

Earlier methods used to locate foreign objects lodged in the esophagus often led to errors because swelling, constriction of the esophagus, and esophagospasms made discovery of the object difficult and impeded its removal. Method

196T88

USSR/Medicine - Novocain Block Sep/Oct 51
(Contd)

Introduced by A. V. Vishnevskiy, using novocain block of short duration, reduces the swelling and relieves spasm thus making discovery and removal of the object possible.

196T88

BOGDANOV, V.P.

Modifications of the auditory organ in hypertension.
Vest. otorinolar., Moskva 15 no.5 :22-26 Sept-Oct 1953.
(CIML 25:5)

1. Candidate Medical Sciences. 2. Of the Clinic for Diseases of the Ear, Throat, and Nose (Acting Head -- Docent M.I. Garshin), Odessa Medical Institute.

BOGDANOV, V.P.

Modification of laryngectomy in neoplastic diseases. Vest. otrinolar. Moskva 15 no.6:63-67 Nov.-Dec.1953. (CIML 25:5)

1. Candidate Medical Sciences. 2. Of the Clinic for Diseases of the Ear, Throat, and Nose (Acting Head -- Docent M. I. Garshin), Odessa Medical Institute.

BOGDANOV, V.P., kandidat meditsinskikh nauk

Method of repair of laryngotracheal stoma. Vest.oto-rin. 18 no.3: 47-49 My-Je '56. (MLRA 9:8)

1. Iz kliniki bolezney ukha, gorla i nosa (i.o. zav. kafedroy - dotsent M.I.Garshin) Odesskogo meditsinskogo instituta imeni N.I.Pirogova

(LARYNX, surgery,
laryngotracheostomy, covering of stoma (Rus))
(TRACHEA, surgery,
same)

KAVERZNEVA, Yekaterina Dmitriyevna; ANDREYEVA, A. P.; BOGDANOV, V. P.

"Some properties and the structure of a glucosamine-aspartic fragment from ovalbumin."

Report to be submitted for the 3rd Intl. Symposium on the Chemistry of Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

MARSHAKOV, I.K.; BOGDANOV, V.P.

Mechanism of the selective corrosion of copper-zinc alloys.
Zhur. fiz. khim. 37 no.12:2767-2769 D '63. (MIRA 17:1)

1. Voronezhskiy gosudarstvennyy universitet.

BOGDANOV, V.P.

Selecting the optimum parameters of the damper of vertical vibrations of high-speed electric locomotives. Trudy TEIIZHT 34:70-85 '62.

Determining the generalized disturbing forces acting upon the ChS2(type 25E) electric locomotive during the movement on a track with joint-connected rails. Ibid.: 86-92
(MIRA 16:8)

KAVERZNEVA, Ye. D.; BOGDANOV, V. P.; ANDREYEVA, A. P.; SHMAKOVA, F. V.

"The chemical bond of the polysaccharide-prosthetic group in ovalbumin, and the situation of this group in the protein molecule."

report submitted for Natl Mtg, American Chemical Society, Philadelphia, 5-10 Apr 64.

Inst of Organic Chemistry, Moscow

MARSHAKOV, I.K.; BOGDANOV, V.P.

Corrosion and electrochemical behavior of alloys of the copper-zinc system. Part 2. Zh. fiz. khim. 38 no.8:1909-1914 Ag '64. (MIRA 18:1)

Corrosion and electrochemical behavior of alloys of the copper-zinc system. Part 3. Ibid.:1915-1919

1. Voronezhskiy gosudarstvennyy universitet.

[redacted]

[illegible], I. S.; [illegible]

[illegible] and electrochemical behavior of alloys in the system copper-zinc. Part 4. Zh. fiz. khim. 38 no.6:1515-1519 Je '64. (MIRA 18:11)

1. Vernadskiy gosudarstvennyy universitet. Submitted April 30, 1964.

BOGDANOV, V. P., KAVERZNEVA, YE. D., and TSEE DE-FAN (USSR)

"A Study on the Carbohydrate-Peptide Fragment from Ovalbumin."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

KAVERZNEVA, Ye.D.; BOGDANOV, V.P.

Isolating from egg albumin a fragment consisting of a polysaccharide and aspartic acid. Biokhimiia 26 no. 1:105-109 Ja-F '61. (MIRA 14:2)

1. Institute of Organic Chemistry, Academy of Sciences of the U.S.S.R. Moscow.
(ALBUMIN) (POLYSACCHARIDES) (ASPARTIC ACID)

KAVERZNEVA, Ye.D.; BOGDANOV, V.P.

Improved method for separating the aspartic-polysaccharide fragment from ovalbumin and some of its characteristics. Biokhimiia 27 no.2:273-278 Mr-Ap '62. (MIRA 15:8)

1. Institut organicheskoy khimii AN SSSR, Moskva.
(ALBUMIN) (POLYSACCHARIDES) (ASPARTIC ACID)

BOGDANOV, V.P., inzh.

Using the electronic analog computer for studying the vertical vibrations of a high-speed electric locomotive. Trudy MIIT no.135:58-65 '61. (MIRA 15:1)
(Electric locomotives--Vibration)
(Electronic analog computers)

BOGDANOV, V.P., inzh. (Tomsk); MIKHEYEV, V.P. (Tomsk); POPOV, V.P. (Tomsk)

"Plastics in railroad transportation" by I.P.Sitkovskii. Reviewed by V.P.Bogdanov, V.P.Mikheev, V.P.Popov. Zhel.dor.-transp. 44 no.11:95-96 N '62. (MIRA 15:11)
(Plastics) (Railroads—Equipment and supplies)
(Sitkovskii, I.P.)

MEDEL', Vladimir Borisovich. Prinimal uchastiye GRIGOR'YEV, Ye.T., inzh.; PAKHOMOV, M.P., doktor tekhn. nauk, retsenzent; BOGDANOV, V.P., kand. tekhn.nauk, retsenzent; LISOVSKIY, A.S., kand. tekhn. nauk; KROVORUCHKO, N.M., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Design of the mechanical part of electric rolling stock] Proektirovanie mekhanicheskoi chasti elektropodvizhnogo sostava. Moskva, Transzheldorizdat, 1963. 422 p. (MIRA 16:10)

(Electric railroads--Rolling stock)

BOGDANOV, V.P.

Determining the harmonic components of the wheel trajectory on railroad tracks. Trudy CNIIT 38:[illegible] '62.

(MIRA 18:8)

MARSHAKOV, I.K.; BOGDANOV, V.P.; ALEYKINA, S.M.

Corrosion and electrochemical behavior of alloys of the copper - zinc system. Part 1. Zhur. fiz. khim. 38 no.7:1764-1769 Jl '64. (MIRA 18:3)

1. Voronezhskiy gousdarstvennyy universitet.