ACC NR: AR6033987 SOURCE CODE: UR/0271/66/000/008/B035/B035

AUTHOR: Zhukov, G. P.; Barilko, Sh. I.; Zabiyakin, G. I.; Kim Gen' Chu'; Li Min Ven'; Tishin, V. G.; Shibayev, V. D.

TITLE: Magnetic tape analyzer

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 9B265

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelectron. T. 3, Ch. 1. M., Atomizdat, 1965, 197-207

TOPIC TAGS: magnetic analyzer, magnetic recording tape, computer memory, storage device

ABSTRACT: The block-diagram of a multidimensional magnetic analyzer with magnetic tape recording is investigated. Binary codes which characterize the investigated event are simultaneously recorded in the recorder on 20 tracks of an evenly moving magnetic tape. The recorder contains an intermediate memory computer, a recording and readout device, a controlling storage device with an oscillographic indicator and a device for selecting information during readout.

Card 1/2 UDC: 681.142:621.374.32

ACC NR: AR6033987

Information is delivered to the input of the intermediate memory in the form of a parallel binary code. The controlling storage device is designed to control the regularity of the analyzer's operation. It possesses a recording cycle of 12 μsec over 512 recording channels. In order to realize a time-amplitude analysis with a large number of channels, the recorder has its own amplitude and time coding units. Three illustrations. Bibliography of 3 titles. [Translation of abstract]

SUB CODE: 09/

Card 2/2

BARILL, Abram Veniaminovich; MESHCHERYAKOV, Vasiliy Aleksandrovich; BUD'KO, V.A., red.; PROKOF'YEVA, L.N., tekhn. red.

[Using paired reapers in harvesting by stages] Opyt razdel'noi uborki sparennymi zhatkami. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1960. 84 p. (MIRA 14:9)

(Grain--Harvesting)

BARILL, A.V.; MESHCHERYAKOV, V.A.; CHICHEVA, L.I., red.; BELOVA, N.N., tekhn. red.

[Wide-range reaping units] Shirokozakhvatnye zhatvennye agregaty. Moskva, Sel'khozizdat, 1963. 190 p. (MIRA 16:9)
(Grain--Harvesting) (Mowing machines)

LISITSA, G.P., assistent; BARILO, G.V.

Use of tissue therapy in diseases of the female genitalia under conditions of a women's health center. Akush. i gin. no.2:136-137'63. (MIRA 16:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.V. Anisimov) Stanislavskogo meditsinskogo instituta.
(GENERATIVE ORGANS, FEMALE — DISEASES)
(ORGANOTHERAPY)

AUTHORS: Svishchova, S.B. and Barilo, M.S., Engineers SOV/122-58-8-13/29

TITLE: Low-temperature Cyaniding of Moulds for Pressure Die Casting (Nizkotemperaturnoye tsianirovaniye pressform dlya lit'ya pod davleniyem)

PERIODICAL: Vestnik mashinostroyeniya, 1958, Nr 8, pp 41-42 (USSR)

ABSTRACT: Recommended procedures for the cyaniding of pressure die-casting moulds in 3Kh2V8 chromium tungsten tool steel, as practised in a Russian engineering plant, are stated. The cyaniding bath consists of 70% NaOH and 30% $K_4Fe(CN)_6$. This is said to be cheap, initially non-toxic, low-melting and highly fluid. The most intense cyaniding takes place when the bath accumulates 30-50% CNO and 3-6% CN. For this purpose, the bath is heated to 540-580 °C for 8-12 hours without immersing the mould. The bath is renewed by fresh chemicals in the course of its exhaustion. The cyaniding takes 4.5 hours, followed by 40 minutes washing in hot water, neutralising in a 4% solution of sodium nitrate and cooking in oil. Low-temperature gas cyaniding proceeds in a muffle furnace into which 6 litres/minute of NH_3 gas and 60 drops of paraffin/minute are introduced, at a temperature of 580 °C for 3.5 hours. A graph shows

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Low-temperature Cyaniding of Moulds for Pressure Die Casting

the microhardness expressed in Rockwell C values against the depth below surface. Both liquid and gas cyaniding achieve 62 Rockwell hardness at the face down to 0.06 mm depth. Heating for 1.5 hours at 650 °C (simulating the casting process) reduces the surface hardness to 56. The reduction ceases at about 0.1 mm depth.
There are 1 figure and 4 Soviet references

TRIFONOVA, Z.V.; BARILO, T.M.

Additional sterilization of equipment in the production of biomycin at the Petrovskiy Distillery. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:120-123 '62. (MIRA 17:1)

1. Petrovskiy spirtovoy zavod.

GOL'DBERG, K.M.; GEL'FANDBEYN, N.M.; Prinimali uchastiye: BARIL'OTI, A.S.; KAPUSTINA, A.I.; LINKOVA, L.M.; STRUKOVA, V.A.; SERKOVA, L.V.; FRADKINA, TS.Yo.

Anticorrosive alkyd GF-020 priming. Lakokras.mat.i ikh prim. no.2:71-74 '62. (MIRA 15:5)

1. Khar'kovskiy lakokrasochnyy zavod "Krasnyy khimik".
(Protective coatings)

DYBKOVSKOV, N.F.; KELOV, L.A.; [illegible]

[illegible] generators for submerged arc welding.
Mashinostroitel' no.9:33 S '62. (MIRA 15:9)

DYURGEROV, N.G., inzh.; ISHCHENKO, Yu.L., inzh.; ZOLOTYKH, V.T., kand. tekhn.nauk; SAPOV, P.M., inzh.; GRIGOR'YEV, G.G., inzh.; ZHIDKOV, A.I., inzh.; BARILOV, O.A., inzh.

Multiple-operator automatic welding under flux without ballast rheostats. Svar. proizv. no.4:40 Ap '63. (MIRA 16:5)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashinostroyeniya (for Dyurgerov, Ishchenko). 2. Rostovskiy zavod sel'skokhozyaystvennogo mashinostroyeniya (for Sapov, Barilov, Grigor'yev, Zhidkov).
(Electric welding--Equipment and supplies)

BUDNIK, N.M., kand. tekhn. nauk; SHEVCHENKO, A.A., inzh.; DYURGEROV, N.G.; SAPOV, P.M., inzh.; BARILOV, O.A.; NAKHIMOVICH, L.I.

Reconditioning shafts by build-up welding with a short arc. Trakt. i sel'khozmash. no.9:43 S '64. (MIRA 17:11)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashinostroyeniya (for Dyurgerov). 2. Rostovskiy zavod sel'skokhozyaystvennogo mashinostroyeniya (for Nakhimovich).

L 07429-67 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v) 4

ACC NR: AP6030273 (N) SOURCE CODE: UR/0125/66/000/008/0050/0053 36 B

AUTHOR: Gufan, R. M.; Zolotykh, V. T.; Budnik, N. M.; Martinovich, V. V.; Gur'yev, K. S.; Sapov, P. M.; Barilov, O. A.; Fel'dman, B. Z.

ORG: [Gufan, Zolotykh, Budnik, Martinovich] Rostov-na-Donu Institute of Agricultural Machine Building (Rostovskiy-na-Donu institut sel'khozmashinostroyeniya); [Gur'yev] Taganrog Electrical Equipment Plant (Taganrogskiy zavod elektrotekhnicheskogo oborudovaniya); [Sapov, Barilov, Fel'dman] "Rostsel'mash" Plant (Zavod "Rostsel'mash")

TITLE: The ISO universal welding oscillator 14

SOURCE: Avtomaticheskaya svarka, no. 8, 1966, 50-53

TOPIC TAGS: welding, hf oscillator, spark ignition, automatic welding, WELDING EQUIPMENT COMPONENT

ABSTRACT: The authors describe the new ISO spark welding oscillator developed on the basis of an experimental investigation of the operation of various types of oscillators. This is a general-purpose unit, i. e. it may be used both as a series and as a parallel oscillator. The unit should be connected in series for welding currents which do not exceed the value given in the specifications and in parallel for higher currents. The hot side of the power line is fused and the unit has a line filter, step-up power transformer with limiting resistors, spark oscillator circuit, high-frequency output transformer and output capacitor. A schematic diagram and photographs

Card 1/2 UDC: 621.791.03:621.3.072

L 07429-67

ACC NR: AP6030273

of the unit are given and the operating principle is described. The unit requires a 220 vac power supply at 50 cps. The oscillator consumes less than 75 w with a power transformer secondary voltage of 2300 v. The minimum hf open-circuit voltage is 5 kv and the maximum continuous welding current with series connection is 350 a. The overall dimensions of the instrument are 310×280×165 mm and the entire unit weighs less than 15 kg. A comparison with the OSTsN-2M oscillator shows that the ISO unit generates much less radio interference. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13, 09/ SUBM DATE: 22Mar66/ ORIG REF: 001

Card 2/2

BARILOVICH, S.I., kand.tekhn.nauk; YASEVICH, A.I., inzh.; TARASOV, G.F., inzh.

Manufacture of products out of "gliezhbeton" containing little or no cement. Transp. stroi. 12 no.9:36-38 S '62. (MIRA 16:2)
(Lightweight concrete)

KRYLOV, G.M.; BARILOVICH, S.I.; YAGEVICH, A.I.

Resistance to heat of glezh concrete. Ukr.khim.zhur. 30 no.1:9-13 '64. (MIRA 17:4)

1. Institut khimii AN UkrSSR.

S/799/62/000/002/003/011

AUTHORS: Barilovskiy, V. L., Vagner, E. N., Glukhov, Yu. N., Datsko, A. V., Stupin, E. F.

TITLE: Potential static trigger having a current key with back coupling through logical diode networks.

SOURCE: Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin. Tsifrovaya tekhnika i vychislitel'nyye ustroystva. no. 2. 1962, 36-43.

TEXT: The paper presents a potential static trigger network utilizing a current key which serves for the making of systems of elements that are fairly fast-acting and are free, to a significant extent, of the shortcomings of other current-switching schemes which require the use of a large number of semiconductor triodes which must be fairly uniform in some of their parameters, such as the voltage between the emitter and the base of the open triode, the base current of the closed triode, and must have fairly elevated values of the current-amplification coefficient, also the unavoidable limitations to the scatter in the values of the resistances and of the stability of the power supply. A circuit diagram of the trigger is shown. The outstanding characteristic of this current key (Author's Certificate no. 130240, entitled "Shaper-inverter") consists in the fact that the collector circuits of its triodes include fairly high ohmic resistors and diodes which on the collectors of the triodes

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of the key affords fixed voltage drops of the order of 5-10 v, which are then amplified by the emitter-repeaters, which employ triodes. These magnitudes of the voltage differences at the trigger output permit one to employ logical diode networks in the construction of computers, an arrangement which reduces significantly the number of transistors employed. A circuit diagram of a logical diode scheme is shown. The frequency characteristics of the network and the design problems of a system of elements are discussed, and the basic requirements for the portions and design elements of the circuitry are set forth. The potential static trigger described in the paper is fairly fast-operating. All of the triodes of the trigger operate in a nonsaturated regime. The fairly large voltage differences afforded by the current key permit the use of the trigger in conjunction with diode circuits. The starting of the trigger and the feedback in it are performed through logical diode networks. There are no reactive elements, since all connections are by DC. A large scatter in the parameters of the transistors and diodes is permissible. The requirements relative to the resistances and the stability of the power supply become more stringent as a result thereof. However, they are readily fulfilled. There are 2 figures and 9 references (8 Russian-language Soviet and 1 English-language: R. K. Richards, Arithmetical operational on digital computing machines, in Russian-language translation, Moscow. Foreign Literature Publishing House, 1957).

BARILYAK, I.R.

Comparative effect of oranil and ovulanic on embryogenesis in white mice. Biul. eksp. biol. i med. 58 no.8:60-64 Ag '64. (MIRA 18:12)

1. Laboratoriya embriologii cheloveka (zav. - prof. A.P.Dyban) otdela embriologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. Submitted March 17, 1964.

BARILYAK, R.A.

37662 dostizheniya v bor'se s letal'nostiyu pri sklerome. vestnik otorin olaringologii 1949 No. 6 , s. 27-30.- bibliogr; 9 nazv,

SO: Letopis' Zhurnal'nykh Statey vol. 37, 1949

BARILYAK, R.A.

622. **The Cytological Diagnosis of Scleroma.** (Цитологическая диагностика склеромы)
R. A. Barilyak. Вестник Ото-рино-ларингологии [*Vestn. Oto-rino-laringol.*] **11**, No. 3, 53–57, May–June, 1949. 6 figs., 8 refs.

Although Burak found the bacillus of Frisch-Volkovitch in 65% and Gonservosky in 75% of cases of scleroma, there are considerable difficulties in identifying the bacillus. The separation of non-encapsulated strains and extensive laboratory facilities are required for serological work. Biopsy is the diagnostic method most often used, and is based on the finding of plasma cells, large round cells with foamy protoplasm—Mikulicz cells—similar to those found in dental root granulomata and resembling lipoma cells, and homogeneous eosinophil hyaline corpuscles, which are also found in non-specific granulations, leprosy, and actinomycosis. In very early cases of scleroma the plasma cells are prevalent; in later cases Mikulicz cells are commoner. The presence of Frisch bacilli within the Mikulicz cells is diagnostic. The stage of the disease has considerable [illegible] on the discovery of these elements, which are [illegible] formation.

The author investigated films made by pressing freshly cut pieces of infiltrate on to glass slides, and was able to squeeze the cells out of the firm cartilaginous-like infiltrate. The films were dried in air for a few minutes, and stained with Pappenheim's stain. The following three types of cell were found: (1) Very small cells resembling small lymphocytes or histiocytes, with a narrow margin of slightly basophil protoplasm and dark, frequently pyknotic, nuclei. (2) Plasma cells, clearly defined when stained with Pappenheim-Unna, the protoplasm being stained crimson-red and the nuclei green. (3) In groups of two to four, or singly, large round clear cells with round or oval pyknotic nuclei and one or two large vacuoles sometimes containing short stout Gram-negative bacilli enclosed in a clear zone (? capsule). In other cells the vacuoles are numerous, and give rise to a foamy appearance. Russell's corpuscles were seen in several haematoxylin-eosin preparations, but were scarcely recognizable with Pappenheim staining.

Thirty-two cases were investigated, two to four films being made in each case. All the findings were controlled by a study of histological sections. In 28 the cellular elements of scleroma were found. In the remaining 4 patients, of whom one had a nasal fibroma and the other three had tuberculous infiltration of the nose, the characteristic cells were absent, and biopsy examination was necessary for diagnosis.

Stephen S[illegible]

MIKHAYLOVSKIY, S.V.;MUZYKA, M.M.;BARILYAK, R.A. GUBINA, K.M.

Treatment of scleroma respiratorium with antibodies. Vest.otorinolar., Moskva 14 no.2:59-62 Mar-Apr 1952. (CLML 22:1)

1. Honored Worker in Science Bashkir ASSR, Professor for Mikhaylovskiy; Docent for Muzyka and Barilyak; Assistant for Gubina. 2. Of the Department for Diseases of the Ear, Throat, and Nose (Head -- Prof. S. V. Mikhaylovskiy) and of the Department of Microbiology (Head -- Docent M. M. Muzyka), L'vov Medical Institute.

MIKHAILOVSKIY, S.V.; CHERNAYA, L.A.; BARILYAK, R.A.; PETRUS, V.S.

Possible utilization of cutaneous reactions in diagnosis of scleroma of the respiratory tract. Vest. otorinolar., Moskva 14 no. 4: 87 July-Aug. 1952. (CIML 22:5)

1. Professor for Mikhaylovskiy and Chernaya; Docent for Barilyak; Assistant for Petrus. 2. Of the Clinic for Diseases of the Ear, Throat, and Nose (Director -- Honored Worker in Science Bashkir ASSR Prof. S. V. Mikhaylovskiy) and of the Department of Microbiology (Head -- Docent M. M. Muzyka), L'vov Medical Institute.

BARILYAK, R.A.

Prevention of asphyxia in respiratory scleroma. Vest. otorinolar., Moskva 15 no.2:92-93 Mar-Apr 1953. (CLML 24:3)

1. Docent. 2. Of the Department of Diseases of the Ear, Throat, and Nose (Head -- Honored Worker in Science Bashkir ASSR Prof. S. V. Mikhaylovskiy), L'vov Medical Institute.

MIKHAYLOVSKIY, S.V.;MUZYKA, M.M.;BARILYAK, R.A.;GUBINA, K.M.

Streptomycin as an effective medium in the treatment of respiratory scleroma. Sovet med. 17 no.5:20-22 May 1953. (CLML 24:5)

1. Professor, Honored Worker in Science Bashkir ASSR for Mikhaylovskiy. 2. Of the Clinic for Diseases of the Ear, Throat, and Nose (Head -- Honored Worker in Science Bashkir ASSR Prof. S. V. Mikhaylovskiy) and of the Department of Microbiology (Head -- M. M. Muzyka) of L'vov Medical Institute (Director -- Prof. D. I. Panchenko).

PA[illegible]YAN, R. A., Doc Med Sci (diss) - "[illegible] clinical [illegible] of [illegible] granuloma". L'vov, [illegible]. [illegible] pp (L'vov State Med Inst), [illegible] copies ([illegible], No [illegible], [illegible], [illegible])

BARILYAK, R.A., dotsent

Review of "Our experiment in treating allergic rhinitis with dry blood serum". Zhur. ush., nos. i gorl. bol. 19 no.5:85-90 '59. (MIRA 14:10)

(SERUM THERAPY) (NOSE--DISEASES)

BARILYAK, R.A., dotsent

Allergic diseases of the nose and its accessory sinuses (as revealed by Polish and Czech otorhinolaryngological periodicals from 1956 to 1959. Zhur. ush., nos. i gorl. bol. 21 no.2:88-90 Mr-Ap '61. (MIRA 14:6)

(ALLERGY) (NOSE--DISEASES)

BARILIAK, A.A.

Value of direct hypopharyngoscopy in pharyngeal tumors ["Ceskoslov. otolar.," No.6, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:83-84 Jl-Ag '61. (MIRA 15:1)

(PHARYNX--TUMORS)

BARILYAK, R.A.

My method for restoring the sound-conducting system by tissue grafted in the region of the fenestra ovalis, and our experience with stapedectomy in otosclerosis ["Ceskoslov. otolar.," No.1, 1961]. Zhur. ush.nos. i gorl. bol. 21 no.4:84 Jl-Ag '61. (MIRA 15:1)
(EAR--SURGERY) (OTOSCLEROSIS)

BARILYAK, R.A.

Effect of fluorine compounds on the upper respiratory tract ["Ceskoslov. otolar.," No.1, 1961]. Zhur. ush. nos. i gorl. bol. 21 no.4:84 Jl-Ag '61. (MIRA 15:1)
(FLUORINE--PHYSIOLOGICAL EFFECT)
(RESPIRATORY ORGANS)

BANILYAK, K.A.

Bell's palsy ["Otolar. polska, " No.3, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:85 Jl-Ag '61. (MIRA 15:1)
(PARALYSIS, FACIAL)

BARILYAK, K.A.

State of the ears and the upper respiratory tract in tuberculosis of the lungs ["Otolar. polska," No.3, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:85 Jl-Ag '61. (MIRA 15:1)
(TUBERCULOSIS) (EAR) (RESPIRATORY ORGANS)

BARILYAK, R.A.

Case of surgical treatment of paralysis of the facial nerves ["Otolar. polska," No.3, 1960]. Reviewed by R.A.Bariliak. Zhur. ush. nos. i gorl. bol. 21 no.4:85 Jl-Ag '61. (MIRA 15:1)
(NERVES, FACIAL--SURGERY) (PARALYSIS, FACIAL)

BARILYAK, R.A.

Local treatment of chronic suppurative otitis with antibiotics ["Otolar. polska," No.3, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:86 Jl-Ag '61. (MIRA 15:1)
(EAR--DISEASES) (ANTIBIOTICS)

BARILYAK, M.A.

Puncture of the antrum ["Otolar. polska," No.3, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:86 Jl-Ag '61. (MIRA 15:1)
(ANTRUM--DISEASES)

BARILYAK, R.A.

Our procedure in chemical burns and subsequent esophageal stenosis in children ["Otolar. polska," No.3, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:86 Jl-Ag '61. (MIRA 15:1)
(BURNS AND SCALDS)
(ESOPHAGUS--WOUNDS AND INJURIES)

BARILYAK, R.A.

Diagnostic and therapeutic difficulties in cases of multiple abscesses of the cerebellum [Ceskoslov. otolar., " No.2, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:87 Jl-Ag '61. (MIRA 15:1)
(CEREBELLUM--ABSCESS)

BARILYAK, A.A.

Hearing disorders following basilar meningitis in children ["Ceskoslov. otolar.," No.2, 1960]. Zhur. ush. nos. i gorl. bol. 21 no.4:87 Jl-Ag '61. (MIRA 15:1)
(MENINGITIS, CEREBROSPINAL) (DEAFNESS)

BARILYAK, R. A. (L'vov)

Morphology and origin of Mikulicz's cells. Arkh. pat. no.6:41-47 '62. (MIRA 15:7)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasluzhennyy deyatel' nauki prof. S. V. Mikhaylovskiy) i kafedry patologicheskoy anatomii (zav. - prof. Ye. I. Pal'chevskiy) L'vovskogo meditsinskogo instituta.

(RHINOSCLEROMA)

BARILYAK, R.A.

Review of Polish and Czech literature on acute tonsillitis. Zhur. ush., nos. i gorl.bol. 22 no.1:93-94 Ja-F '62. (MIRA 15:5)
(TONSILS--DISEASES)

BARILYAK, R.A., dotsent

Review of "Allergic symptoms in the middle ear". Zhur. ush., nos. i gorl. bol. 19 no.5:84 S-O '59. (MIRA 14:10)
(EAR--DISEASES) (ALLERGY)

BARILYAK, R.A., dotsent

Review of "Treatment of allergic nasal catarrh by amnion injections".
Zhur. ush., nos. i gorl. bol. 19 no.5:84 S-O '59. (MIRA 14:10)
(AMNION) (NOSE--DISEASES)

BARILYAK, R.A., dotsent

Review of "Pathogenesis and clinical significance of so-called allergic mucous membrane of the nose". Zhur. ush., nos. i gorl. bol. 19 no.5:84-85 S-O '59. (MIRA 14:10)
(ALLERGY) (NOSE--DISEASES)

BARIM, B.A.; CHERNOV, P.S.

Fast coincidence circuits. Nauch.-tekh.sbor.Gos.izd-va lit. v obl. atom. nauki i tekh. no.4:99-108 '62. (MIRA 16:10)

BARIN, S. YA.

Lining steel-melting furnaces. S. Ya. Barin. U.S.S.R. 104,437, Dec. 25, 1956. Steel-melting furnaces are lined with a mixt. contg. 66% quartz sand and 8% Na silicate. Basic furnaces are lined with a mixt. comprising 85-94% magnesite powder and 6-15% fireclay or 88-95% chrome magnesite powder and 5-12% fireclay. M. Hoss

25-4-12/34

SUBJECT: USSR/Steel smelting

AUTHOR: Barin, S.Ya., Senior Foreman of Uralvagonzavod

TITLE: Thousands of Smeltings without Reconditioning the Furnace (Tysyachi Plavok bez Remonta Pechi)

PERIODICAL: Nauka i Zhizn', April 1957, # 4, pp 25-28 (USSR)

ABSTRACT: The author of this article has introduced a new method of making steel smelting furnaces last longer by furnishing them with special fireresistant linings. Normally a steel smelting furnace with an electric arc heater has a lining of fireresistant bricks. This lining is easily damaged by the heat and has to be cooled off and thoroughly reconditioned after 30-50 smeltings, not to mention the current small repairs after each cast. Mr. Barin has figured out that to keep one furnace in good shape during the period of one year, 500 tons of magnesite bricks are needed plus 135 tons of magnesite powder for filling joints, the expenses being 250,000 rubles for fireresistant material plus 20,000 rubles for labor. A more efficient lining material had to be found. First the cylinder shape of the furnace jacket was changed by widening it to a cone, then the

Card 1/2

TITLE: Thousands of Smeltings without Reconditioning the Furnace (Tysyachi Plavok bez Remonta Pechi) 25-4-12/34

brick lining was replaced by a lining material composed of 85-94 percent waste of ground magnesite bricks and 6-15 % fire-resistant clay or other similar compositions. After hundreds of tests and failures the fully efficient smelting furnace was devised, which has been in operation for the last five years without a single major repair after ca. 12,400 smeltings. The quantity of magnesite bricks for preparing the new lining for furnaces with electric arc heater has gone down from 31 kg to 0,082 kg per ton of liquid metal, not to mention the additional quantities of steel that could be cast by this time- and money saving device.

This article contains 7 illustrations.

ASSOCIATION: Uralvagonzavod (Ural RR Car Plant)

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SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

BARIN, S.Ya.

DUBROV, N.F., kand. tekhn. nauk; MIKHAYLOV, O.A., kand. tekhn. nauk; FEL'DMAN, I.A.; DANILOV, A.M.; SOROKIN, P.Ya., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; BUTAKOV, D.K., kand. tekhn. nauk, dots.; SOYFER, V.M.; LATASH, Yu.V., mladshiy nauchnyy sotrudnik; ZAMOTAYEV, S.P.; BEYTEL'MAN, A.I.; SAPKO, A.I.; PETUKHOV, G.K., kand. tekhn. nauk; YEDNERAL, F.P., kand. tekhn. nauk, dots.; LAPOTYSHKIN, N.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; ROZIN, R.M.; NOVIK, L.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; LAVRENT'YEV, B.A.; SHILYAYEV, B.A.; SHUTKIN, N.I.; GNUCHEV, S.A., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; LYUDEMAN, K.F., doktor-inzh., prof.; GRUZIN, V.G., kand. tekhn. nauk; BARIN, S.Ya.; POLYAKOV, A.Yu., kand. tekhn. nauk; FEDCHENKO, A.I.; AGEYEV, P.Ya., prof., doktor; SAMARIN, A.M.; BOKSHITSKIY, Ya.M., kand. tekhn. nauk; GARNYK, G.A., kand. tekhn. nauk; MARKARYANTS, A.A., kand. tekhn. nauk; KRAMAROV, A.D., prof., doktor tekhn. nauk; TEDER, L.I.; DANILOV, P.M.

Discussions. Biul. TSNIICHM no.18/19:69-105 '57. (MIRA 11:4)

1. Direktor Ural'skogo instituta chernykh metallov (for Dubrov). 2. Direktor TSentral'nogo instituta informatsii chernoy metallurgii (for Mikhaylov). 3. Nachal'nik nauchno-issledovatel'skogo otdela osobogo konstrukterskogo byuro tresta "Elektropech'" (for Fel'dman). 4. Nachal'nik martenovskoy laboratorii Zlatoustovskogo metallurgicheskogo zavoda (for Danilov, A.M.). 5. Laboratoriya protsessov stalevareniya Instituta metallurgii Ural'skogo filiala AN SSSR (for Sorokin).

(Continued on next card)

DUBROV, N.F.---(continued) Card 2.
6. Ural'skiy politekhnicheskiy institut (for Bulakov). 7. Starshiy inzhener Bryanskogo mashinostroitel'nogo zavoda (for Soyfer). 8. Institut elektrosvarki im. Patona AN URRS (for Latash). 9. Nachal'nik TSentral'noy zavodskoy laboratorii "Uralmashzavoda" (for Zamotayev). 10. Dnepropetrovskiy metallurgicheskiy institut (for Sapko). 11. Moskovskiy institut stali (for Yedneral). 12. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Gnuchev, Lapotyshkin). 13. Starshiy master Leningradskogo zavoda im. Kirova (for Rorin). 14. Institut metallurgii im. Baykova AN SSSR (for Novik, Polyakov, Garnyk). 15. Nachal'nik tekhnicheskogo otdela zavoda "Bol'shevik" (for Lavrent'yev). 16. Starshiy inzhener tekhnicheskogo otdela Glavspetsstali Ministerstva chernoy metallurgii (for Shilyayev). 17. Zamestitel' nachal'nika tekhnicheskogo otdela zavoda "Elektrostal'" (for Shukkin). 18. Freybergskaya gornaya akademiya, Germanskaya Demokraticheskaya Respublika (for Lyudeman). 19. Zaveduyushchiy laboratoriyey stal'nogo lit'va TSentral'nogo nauchno-issledovatel'skogo instituta tekhnologii i mashinostroyeniya (for Gruzin). 20. Starshiy master elektrostaleplavil'nykh pechey Uralvagonzavoda (for Barin). 21. Zamestitel' nachal'nika elektrostaleplavil'nogo tsekha zavoda "Sibelektrostal'" (for Fedchenko). 22. Zaveduyushchiy kafedroy metallurgii stali i elektrometallurgii chernykh metallov Leningradskogo politekhnicheskogo instituta (for Agsyev). 23. Zamestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlen-korrespondent AN SSSR (for Samarin).

(Continued on next card)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000203620005-3"

DUBROV, N.F.---(continued) Card 3.
24. Nachal'nik laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Bokshitskiy). 25. Zaveduyushchiy kafedroy elektrometallurgii Sibirskogo metallurgicheskogo instituta (for Kramarov). 26. Nachal'nik elektrostaleplavil'nogo tsekha Kuznetskogo metallurgicheskogo kombinata (for Tador). 27. Nachal'nik elektrometallurgicheskoy laboratorii Kuznetskogo metallurgicheskogo kombinata (for Danilov, P.M.).
(Steel--Metallurgy)

AUTHOR: Baryn ...ts. [illegible] 91-58-9-10/30

TITLE: Lining electric steel melting furnaces with special materials (Futerovka sten elektricheskikh staleplavil'nykh pechey spetsial'nymi massami)

PERIODICAL: Promyshlennaya Energetika 1958, No.9 pp. 22-[illegible] (USSR)

ABSTRACT: The work described in this brief article was awarded 2nd premium in an All Union Power Economy competition. The old method of lining electric steel melting furnaces with bricks of magnesite or chromo-magnesite was unsatisfactory because the lining only lasted for about 60 melts about 6 days work. To overcome this trouble the use of special lining materials was suggested and some alterations were made in the construction of the furnace. Formulations are then given for different kinds of lining materials each of which consists of mixtures of fireclay with suitable fillers. In some mixtures old magnesite and chrome magnesite bricks are ground up and used. Instructions are given for mixing and using these substances. The process of lining the furnace is then described in some detail. Magnesite bricks on the hearth are covered with liquid glass, then the materials described above are applied. The newly lined furnace is protected with thin sheet steel before the first charge is put in, but after a few melts the walls become strong. Different

Card 1/2 formulations are given for acid and basic furnaces. The method of

repairing the lining between charges, if necessary, is described. With the new method of lining it is possible to make more than 10 [illegible]00 melts without renewing the lining. This has increased the [illegible] output by 20 - 25% and it has cut down the consumption of heat resisting materials and has given considerable economy of electric power. There are 3 figures.

[illegible] Refractory materials--Properties [illegible]

S/130/60/000/008/006/009

15 2200

AUTHOR: Barin, S.Ya.

TITLE: Lining of Electric Furnace Walls With Plastic Refractories

PERIODICAL: Metallurg, 1960, No. 8, p. 15

TEXT: To raise the stability of Uralvagonzavod electric furnaces, their walls were lined with a plastic refractory mass, ductile in raw state, having good clinkering capacities and high strength in sintered state. The mass is prepared of a mixture consisting of 88-94% magnesite powder and 6-12% fine-ground refractory clay, which is mixed with water glass. Ground chrome-magnesite bricks, dolomite or chrome ore rejects may be used instead of magnesite powder. If the magnesite powder is pure, 6-10% iron chips or scale may be added. The moisture of the mass is 14-18%. After the hearth bottom masonry has been completed, an arc is laid over the outlet apertures, which serves as the wall foundation, or a pattern is made of 1.5-2 mm iron sheet. A water-cooled metallic frame is mounted above the charge aperture instead of an arc, which also serves to support the wall. The mass is laid in 150-200-mm layers over the whole furnace perimeter, it is rammed by hand. The slope of the walls is 25°. The wall thickness is 370-400 mm at the bottom and 130-150 mm at the top. The new walls are not dried, they

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S/130/60/000/008/006/009

Lining of Electric Furnace Walls With Plastic Refractories

clinker during the first melts. After each melt the furnace is dressed with a moisture mass. To make the inspection and application of the lining more convenient, special folding platforms are mounted 1 m over the shell. The mass for an acid lining is made of 92-94% quartz sand and 6-8% water glass. The campaign of furnaces with acid lining last- 14,000-17,000 melts and with a basic lining is 15,000-19,000 melts. The new lining method was brought into use at a number of metallurgical shops in Soviet and Czechoslovakian machinebuilding plants.

AFFILIATION: Uralvagonzavod

Card 2/2

BARIN, Stepan Yakovlevich; KAYBICHEVA, M.N., inzh., retsenzent; DOVGOPOL, V.I., inzh., red.; DUGINA, N.A., tekhn. red.

[Advice to the steelmaker] Sovety staleplavil'shchiku. Moskva, Mashgiz, 1961. 37 p. (Biblioteka rabochego-mashinostroitelia. Seriia: Peredovaia tekhnika -- osnova kommunisticheskogo truda, no.4) (MIRA 15:6)
(Steel—Electrometallurgy) (Smelting furnaces)

BARIN, S.Ya.; KAYBICHEVA, M.

Lining electric steel melting [illegible] with [illegible] substances. Ogneupory 26 no.1[illegible] : [illegible]-486 [illegible]

1. Ural'skiy vagnostroitel'nyy [illegible] (for Barin). [illegible] institut ogneuporov (for Kaybiche[illegible]
(Metallurgical furna [illegible]
(Refractory [illegible])

DORENKO, L.M.

[illegible]

"Hybrids From the Crossing of Northern Short-tail [illegible] With the [illegible] Breeds [illegible]" [illegible], [illegible] Inst of Animal Husbandry, Moscow, 1954. ([illegible], No 7, Feb 55)

SO: Sum. No. [illegible], [illegible] 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions. (14)

BARINA, F.

Improved safety railings on brickwork, freestone, and panel buildings. p. 187.
(Pozemni Stavby, Vol. 5, No. 4, Apr 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAI) LC, Vol. 6, No. 8, Aug 1957. Uncl.

BARINA, F.

"Safety measures at the construction sites of assembled panel dwellings." p. 315

POZEMNI STAVBY. Praha, Czechoslovakia, Vol. 7, No. 6, March, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959
Unclas

BARINA, Josef

Mechanization problems from the viewpoint of investment policy.
Inz stavby 11 no.7:Suppl:Mechanizace no.7:107-109 '63.

1. Investicni odbor ministerstva vystavby.

BARINA, Karel

Utilization of canning and distillation waste in the Konzervarny a lihovary National Enterprise in Vizovice. Prum potravin 14 no.5:231-232 My '63.

1. Konzervarny a lihovary, n.p., Vizovice.

BARINBERG, A.D., inzhener.

"Ways of economizing on electricity in construction" by A.B.Topolianskii. Reviewed by A.D.Barinberg. Mekh.stroi.13 no.11:3 of cover N '56. (MLRA 9:12)
(Electric engineering) (Topolianskii, A.B.)

BARINBERG, A.D., inzhener.

Current limiters used during idle running of welding machines. Bezop. truda v prom. 1 no.2:29 F '57. (MLRA 10:4)
(Electric welding--Safety measures)

BARINBERG, A.D., inzh.

New mercury relays. Vest.elektroprom. 33 no.1:66-67 Ja '62.
(MIRA 14:12)

(Electric relays)

BARINBERG, A.D., inzh.

New mercury relays. Elektroenergiia 13 no.3:29-30 Mr '62.

BARINBERG, A.D., inzh.

Mercury electric current relays with electromagnetic pumps.
Vest. elektroprom. 33 no.10:72-74 O '62. (MIRA 15:9)
(Electric relays)

BARINBERG, A. D.

Mercury commutator with an electromagnetic pump. Priborostroenie no.12:19-20 D '62. (MIRA 16:1)

(Commutation(Electricity))

BARANOV, A.V., BORISOV, N.I.

Hydromagnetoelectric commutator for multiple-point [illegible]
Avtom. i prib. no.3:56-57 Jl-S '64. (MIRA 18:1)

SHTIL'MAN, Ye., kand.tekhn.nauk; LESHCHINSKIY, M., starshiy nauchnyy sotrudnik, kand.tekhn.nauk; BARINGOL'TS, A., inzh.

Waterproofing the roadway of a bridge with divinylacetylene lacquer. Prom. stroi. i inzh. soor. 4 no.1:44-45 Ja-F '63. (MIRA 16:3)

1. Nachal'nik otdela iskusstvennykh sooruzheniy Ukrainskogo dorozhno-transportnogo nauchno-issledovatel'skogo instituta (for Shtil'man). 2. Ukrainskiy dorozhno-transportnyy nauchno-issledovatel'skiy institut (for Leshchinskiy). 3. Nachal'nik dorozhno-stroitel'skogo upravleniya No.3 tresta "Ukrdorstroy" (for Baringol'ts).
(Bridges, Concrete) (Waterproofing)

KOZACHUK, V.M., inzh.; BARINGOL'TS, A.Z., inzh.

Precast monolithic reinforced concrete sluice bridges. Avt.dor. 21 no.11:13-14 N '58. (MIRA 11:12)
(Bridges, Concrete) (Sluices)

SHTIL'MAN, Ye.I., kand.tekhn.nauk; BARINGOL'TS, A.Z., inzh.; RUSAKOV, G.I., inzh.

Eight-span bridge built of prestressed composite beams. Avt. dor. 23 no.2:11-12 F '60. (MIRA 13:5)
(Kiev Province--Bridges, Concrete)

BARINGOL'TS, A.Z.; KORUNSKIY, V.S.; SHTIL'MAN, Ye.I.

Using wire-reinforced concrete in making bridge spans. Avt. dor. 23 no.5:11-14 My '60. (MIRA 13:10)

(Bridges, Concrete)

SHTIL'MAN, Ye.I., kand.tekhn.nauk; BARINGOL'TS, A.Z.; BEREZETSKIY, V.I.

The role of transverse beams in bridge design. Avt.dor. 24 no.6:23-24 Je '61. (MIRA 14:7)
(Bridges, Concrete) (Precast concrete construction)

BARINGOL'TS, E.

Competition among members of city fire department. Pozh.delo 6 no.6:25 Je '60. (MIRA 13:7)

1. Nachal'nik gorodskoy pozharnoy komandy, Pruzhany, Brestskaya oblast'.
(Pruzhany--Fire departments)

BARINGOL'TS, Z.

Hero of Brest Aleksei Zasim. Pozh. delo 4 no.5:15 My '58.
(MIRA 11:5)

1. Nachal'nik Pruzhanskoy gorodskoy pozharnoy okhrany.
(Brest, Battle of, 1941)

BARINGOL'TS, Z.

Hit the mark! Pozh.delo 8 no.3:27 Mr '62. (MIRA 15:3)

1. Nachal'nik Pruzhanskoy gorodskoy pozharnoy okhrany, Brestskaya oblast'.
(Brest Province--Fire prevention) (Satire)

BARINKA, J.

Development in the design of decorator's fabrics. p. 100.

-Zd-. Design of cotton tweed fabrics for men's wear. p. 101.

(Textil. Vol. 12, no. 3, Mar. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EAL) LC, Vol. 6, no. 10, October 1957. Uncl.

BARINKA, Ind.

Fresh injuries of the nose and their therapy. Acta chir. orthop. traum. cech. 26 no.4:344-350 Aug 59.

1. Klinika plasticke chirurgie v Brne, prednosta doc. dr. Vaclav Karfik.
(NOSE, wds. & inj.)

BARINKA, L.

Campylodactylia (Preliminary report). Acta chir. orthop. trauma. Cech. 28 no.4:279-286 Ag '61.

1. Klinika plasticke chirurgie v Brne, prednosta prof. dr. V.Karfik.
(FINGERS diseases)

KUBACEK, V.; BARINKA, L.

Early dressing of free skin grafts. Acta chir. orthop. trauma. Cech. 28 no.4:342-349 Ag '61.

1. Klinika plasticke chirurgie KUNZ Brno, prednosta prof. dr. Vaclav Karfik.

(SKIN TRANSPLANTATION)

BARINKA, L.

Contribution to campylodactylism. Acta chir. orthop.traum. cech. 30. no.6:450-457 D'63.

1. Klinika plasticke chirurgie lekarske fakulty UJEvP v Brne; zast. prednosty: doc.dr. V.Kubacek, CSc.

BARINKA, L.

Campylodactylia. A preliminary communication. Acta chir. plast. 6 no.1:54-60 '64.

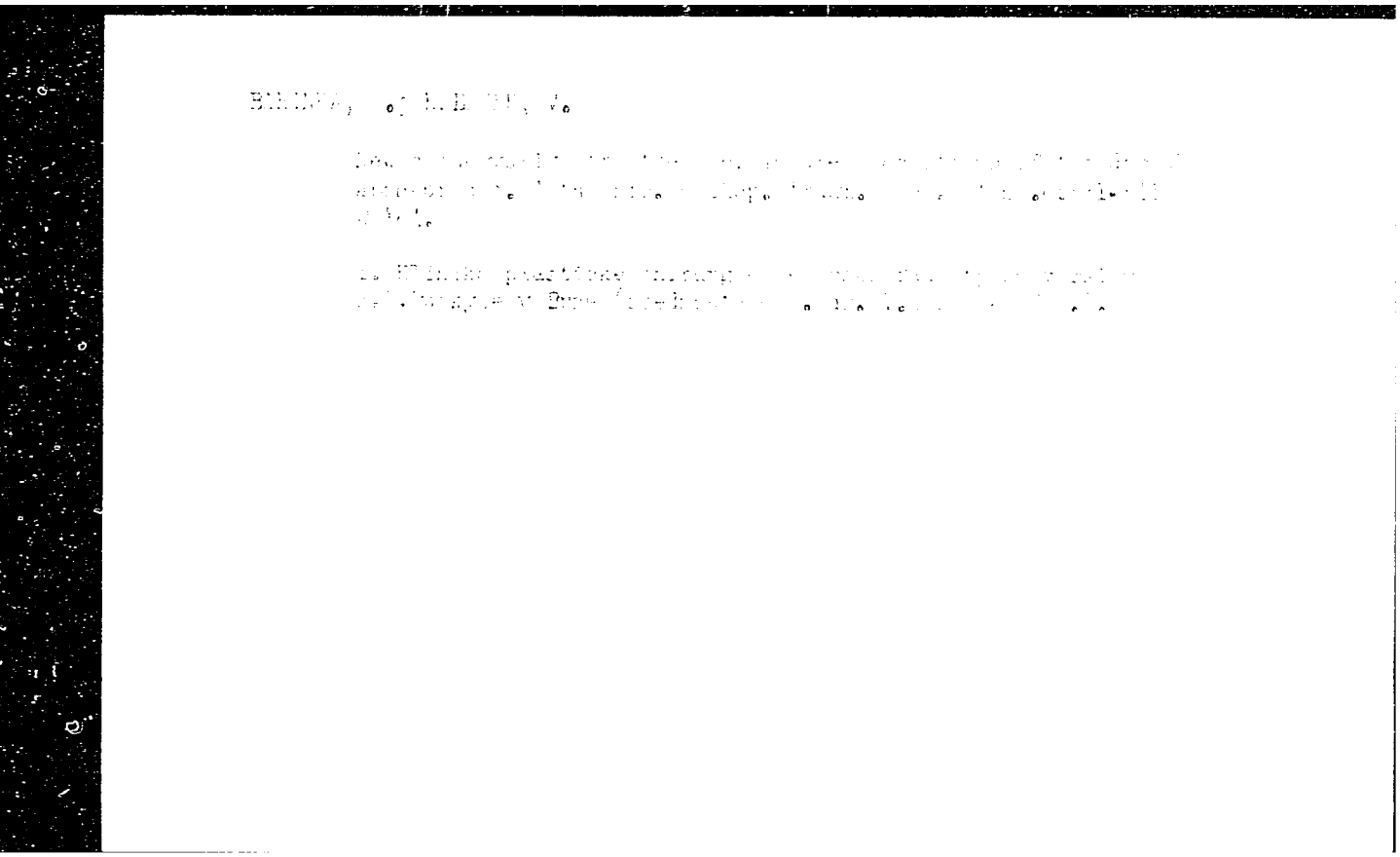
1. Clinic of Plastic Surgery, Faculty of Medicine, Purkyne University, Brno (Czechoslovakia). Director: doc. V.Kubacek, M.D.

*

BARINKA, L.

Notes on campylodactylia . II. Second communication. Acta chir. plast. (Praha) 6 no.2:154-161 '64

1. Clinic of Plastic Surgery, Faculty of Medicine, Purkyne University, Brno (Czechoslovakia); Director: Doc. V. Kubacek, M.D., C. Sc.



SILIN, B., distantsionnyy master; BARINOV, A., distantsionnyy master.

Efficient operation of water drains. Zhil.-kom.khoz. 3 no.8:26-27 Ag '53. (MLRA 6:8)

1. Kontora ekspluatatsii vodostokov tresta "Gordoreksploatatsiya" Moskvy. (Moscow--Sewerage)

BARINOV, A.A.; BORODITSKAYA, R.M.; BORISOVA, N.S.; DANILOV, B.P.; MYASNYANKINA, T.V.; TOKAREV, G.I.

Single-layer slabs made of nonautoclaved air-entrained fly-ash concrete. Stroi. mat. 9 no.2:22-23 F '63. (MIRA 16:2)

1. Donetskiy nauchno-issledovatel'skiy institut nadshakhtnogo stroitel'stva Akademii stroitel'stva i arkhitektury UkrSSR (for Barinov, Borodit-skaya, Borisova, Danilov). 2. Nachal'nik otdela novykh stroitel'nykh materialov Donetskzhilstroya (for Myasnyankina). 3. Nachal'nik Donetskogo domostroitel'nogo kombinata No.1 (for Tokarev).

(Concrete slabs) (Air-entrained concrete)

1. BARINOV, A. M.

2. USSR (600)

4. Technology

7. The organization of preparation of production on the basis of universal-assembling apparatus. Moskva, Mashgiz, 1951

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

[redacted] inshener.

Increasing consumption of electric power by exhaust fans. (MIRA 10:7)
Gigiena i sanit. no.6:12-13 Je '57.
(Fans, Mechanical)

BARINOV, A.V., inzh.; BERNSHTEYN, M.S.

Adjustment of fuel oil operated boilers. Energetik 9 no.7:14-16 Jl '61. (MIRA 14:9)

(Boilers)

L 60231-65

ACCESSION NR: AP5019091 UR/0286/65/000/012/0111/0111

16
B

AUTHORS: Barinov, A. V.; Belov, Yu. P.

TITLE: A device for powering a lighting system by the magneto ignition system of an internal combustion engine. Class 46, No. 172159

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 111

TOPIC TAGS: lighting system, internal combustion engine, magneto, ignition system, semiconductor

ABSTRACT: This Author Certificate presents a device for powering a lighting system by the magneto ignition system of an internal combustion engine (see Fig. 1 on the Enclosure). The lamps of the lighting system are connected into the circuit of the primary winding of the magneto ignition. To eliminate the interference of the lighting system with the ignition system, a semiconductor rectifier is connected into the ignition circuit after and parallel to the lamps. Orig. art. has: 1 schematic drawing.

ASSOCIATION: Konstruktorsko-eksperimental'noye byuro ul'yanovskogo zavoda malolitrazhnykh dvigateley (Construction and Experimental Bureau of the Ul'yanov Factory of Small Engines)

Card 1/3

L 60231-65

ACCESSION NR: AP5019091 0

SUBMITTED: 30Mar64 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 2/3

L 60231-65

ACCESSION NR: AP5019091

ENCLOSURE: 01

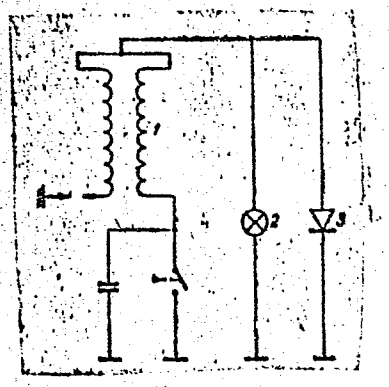


Fig. 1.
1- primary winding of the ignition coil; 2- lamp; 3- semiconductor rectifier

Card 3/3

BARINOV, B.

Lifesavers at their posts. Voen. znan. 37 no. 1:30 Ja '61.
(MIRA 14:1)

1. Starshiy inspektor spastel'noy sluzhby Moskovskogo obkoma Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.
(Moscow Province--Life-saving stations)

BARINOV, G.; GALIMOV, A.

Practices in receiving and processing peas at the Chistopol' Flour and Groat Combine. Muk.-elev. prom. 29 no.4:11 Ap '63. (MIRA 16:7)

1. Zamestitel' direktora po kachestvu Chistopol'skogo mel'kru-pokombinata (for Barinov).
(Chistopol'--Peas--Storage)

K

Country : USSR
Category: Forestry. Forest Cultures.

Abs Jour: RZhBiol., No 11, 1958, No 48770

Author : Fedorov, N.I.; Dyrnov, G.V.
Inst : Saratov Agricultural Inst.
Title : Growth Characteristics of the Roots of One-Year Old Tree Seedlings.

Orig Pub: Tr. Saratovsk. s.-kh. in-ta, 1957, 10, 24-261

Abstract: Observations were conducted on ash, Tatarian maple, common elm, and Chinese elm (Ulmus parvifolia) during 1951-1952 at "Industrial'nyy" Tree Nursery in the Yekaterinovskaya Rayon of Saratovskaya Oblast The dynamics of root growth in depth and the start of lateral roots in one-year old seedlings were

Card : 1/2

Country : USSR
Category: Forestry. Forest Cultures.

K

Abs Jour: RZhBiol., No 11, 1958, No 48779

studied to establish a basis for the maintenance technique for the sowings and for insuring the growing of standard planting material with well-developed root systems (methods of observations are described). In all the species covered by the study, two maximums were observed in the rate of growth of the root system: "after-sprouting" determined to a considerable degree by the reserves of nutrients in the seeds, and the "summer" maximum. The latter was the higher rate and in contrast with the adult trees it took place at the same time as shoot growth. The article gives recommendations on the technique of growing the seedlings. -- I.A. Bashkirov

Card : 2/2

BARINOV, G. V., Cand of Bio Sci — (diss) "The Use of Mineral Substances as Non-Root Feeders for Plants," Moscow, 1959, 19 pp (Institute of Plant Physiology im K. A. Timiryazev) (KL, 5-60, 124)