POPOV, V.

Tasks of the State Bank in connection with the reorganization of the management of industry and construction work. Den.i kred. 15 no.6:1-6 Je '57. (MIRA 10:7)
(Banks and banking)

POPOV, V.

Improving the technology in the production of canned sterilized green peas. p. 30.
LEKA PROMISHLENOST. Vol. 5, no. 7, 1957 .
Sofiia, Bulgaria

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 6, no. 1, January 1957

POPOV, V.

Continuous flow line in the production of mixed feeds at the Voronezh Mill. Muk.-elev. prom. 25 no.10:9-10 O '59. (MIRA 13:3)

1. Glavnyy inzhener Voronezhskogo kombikormovogo zavoda.
(Voronezh--Feed mills)

Popov, V

Distr: 4E2c/4E2c(j) 2 2

Aluminum oxide refractory materials. V. Popov. *Leka Prom.* (Sofia) 8, No. 2, 28–30(1959).—These must have a high Al_2O_3 (I) content, generally over 45%. Local clays and kaolins cannot be used alone since their I content is less than 40%. High-content materials can be synthesized by the addn. of tech. I. The clays are dried to 1% moisture, weighed, I added, homogenized, and granulated, followed by the addn. of 17–25% H_2O. The mix is fired in a 1–5 r.p.m. rotating furnace in which the bake zone temp. is 1450°; this yields 45 and 49% I refractory materials.

Y. Himelbloom

PAPOV, V.

Ore dressing in heavy suspensions. p. 310.

RUDY. Vol. 4, no. 10, Oct. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

POPOV, V.; NIKOLOV, P.

New methods of testing enameled conductors. p. 43.

RATSIONALIZATSIIA. Vol. 6, no. 5, May 1956

Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

POPOV, V., inzhener.

Sand and lime (cementless) blocks for rural construction.
Sel'.stroi. 11 no.1:23-24 Ja '56. (MLRA 9:6)
(Building materials)

FOFOV. V.

Radio - Transmitters and Transmission

Dispatch radio service in a consolidated collective farm. Radio, no. [illegible], 1952

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED

MARANOVA, V.; MARKOV, V.; POPOV, V.; [illegible], A.

Telegraph

Telegraph messengers. Sov. sviaz. 3, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

1. POPOV, V.

2. USSR (600)

4. Labor and Loboring Classes-Medical Care

7. Daily control of the work of medical institutions. V. pom. profaktivu 14 no. 6 1953

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

POPOV, V.
"Correct use of horses for work on collective farms" (p. 22) KOOPERATIVNO ZEMEDELIE (Ministerstvo na zemedelieto) Sofiya Vol 8 No 8 1953

SO: East European Accessions List Vol 3 No 7 Aug 1954

[illegible], [illegible], writer on swimming.

Swimming; manual for sections of physical education groups (for the training of beginners) Moskva, Fizkul'tura i sport, 1954. 175 p. (55-35485)

GV837.P67

1. Swimming. I. Chernyshov, A., jt. au.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001342410002-4"

POPOV, V.

IA 51277

USSR/Mines Mar 1948
Mining Machinery
Drilling Machinery

"Electrical Core Drill as Light Drilling Machine Tool," V. Popov, Chief Geol, Voroshilovgrad Ugol' Combine, 2 p

"Gornyy Zhur" No 3

States that until now, the lightest drill used for drilling in mines weighed 700 kg. Describes new electric core drill weighing only 250 kg, which was tested and found satisfactory.

LC 51277

POPOV, V.

USSR
Candidate of Economic Sciences
"Problems Requiring Attention of the Ministry of the Coal Industry"
(Izvestia-Oct. 13, 1949

So. Current Digest of the Soviet Press, Vol.1, No. 42, 1949, page 54
(In [redacted] Library)

POPOV, V., inzhener; UZDIN , D., inzhener.

Lubrication of trolleybuses in terminals. Zhil.-kom.khoz. 3 no.8:10-12 Ag '53. (MLRA 6:8)
(Trolley buses--Lubrication)

POPOV, V.

"Rocks of Belogradchik", P. 1, (GEOGRAFIIA, Vol. 4, No. 4, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

POPOV, V. [redacted]

Strictly execute the directives of Party and government. Den.1 kred.12 no.3:13-20 S'54. (MLRA 8:2)
(Banks and banking)

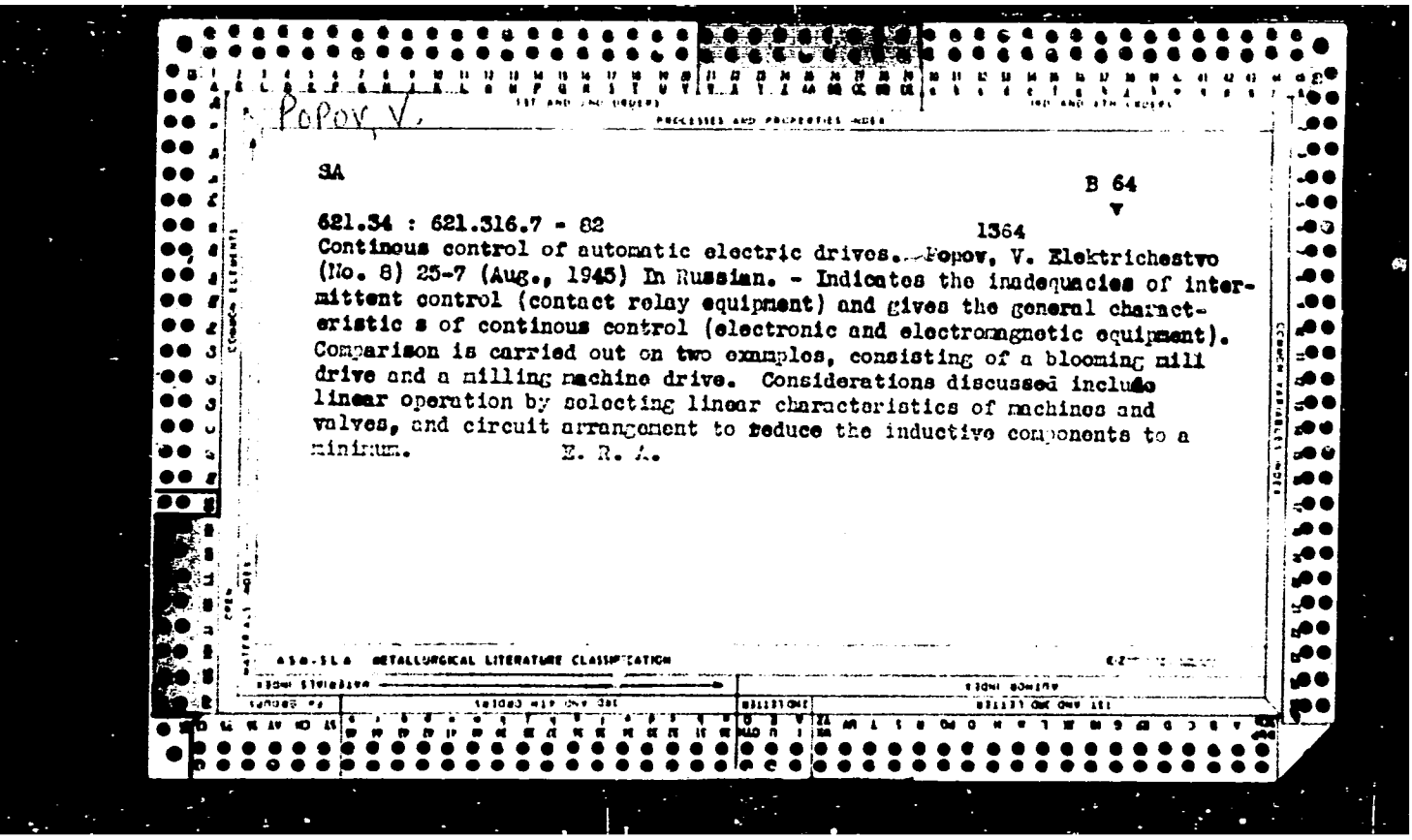
POPOV, V.

For a further increase in the role of the State Bank in developing the socialist economy. Den.i kred. 14 no.1:7-17 Ja '56.
(MLRA 9:5)

(Banks and banking)

POPOV, V.

Resolutions of the 20th Congress of the Communist Party of the Soviet Union and immediate tasks of the State Bank. Den. i kred. 14 no.4:3-8 Ap '56. (Banks and banking) (MLRA 9:7)



Popov, V.

SA

B 64

621.34 : 621.316.7 - 82 1364

Continous control of automatic electric drives. Popov, V. Elektrichestvo (No. 8) 25-7 (Aug., 1945) In Russian. - Indicates the inadequacies of intermittent control (contact relay equipment) and gives the general characteristic s of continous control (electronic and electromagnetic equipment). Comparison is carried out on two examples, consisting of a blooming mill drive and a milling machine drive. Considerations discussed include linear operation by selecting linear characteristics of machines and valves, and circuit arrangement to reduce the inductive components to a minimum. E. R. A.

POPOV, V.

Popov, V., Chetkarov, M., "The Specific Resistance and Piercing Potential of Mika Board from Bulgarian Mica." p.53 (GODISHNIK, MATEMATIKA I FIZIKA, Vol. 47, No. 1, 1950/51-1951/52, Sofiya.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March, 1954, Uncl.

Popov, V.

BULGARIA/General Division. Congresses. Meetings. Conferences. A-4

Abs Jour : Ref Zhur-Biologiya, No 20, 1957, 85087

Author : V. Popov
Inst :
Title : Seventh International Horse Breeding Congress Held in Moscow

Orig Pub : Zhivotnovodstvo i vet. delo, 1956, 10, No 2, 5-15

Abstract : No abstract.

Card 1/1

POPOV, V

"Possibilities for production of aluminum refractory materials in Bulgaria"

TEZHA PROMISHLENOST, Sofiia, Bulgaria, Vol. 8, no. 3, Mar. 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, ~~Jun~~ Sep 59, Unclas

POPOV, V., mayor; LETNIKOV, Yu., kapitan

Rocket gunners always in combat readiness. Komm. Vooruzh. Sil 4 no.16:46-48 Ag '64. (MIRA 17:10)

PIPOV, V.

"Alumina refractory materials."

LEKA PROMISHLENOST., Sofiia, Bulgaria., Vol. 8, No. 2, 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclas

POPOV, V., kinooperator

"Diffusion" light filters. Sov.foto 20 no.3:34 Mr '60.
(MIRA 13:7)
(Photography--Light filters)

POPOV, V.

Storeroom of material wealth. Prom.koop. 14 no.6:33-34 Je '60. (MIRA 13:7)

1. Zamestitel' nachal'nika otdela zagotovki i pererabotki vtorichnogo syr'ya Lengorpromsoveta.
(Salvage(Waste, etc.))

POPOV, V.

Grade only steam-processed hides. Mias. ind. SSSR 30 no.3:30 '59. (MIRA 12:9)

(Hides and skins)

POPOV, V.

Work practices of the Voronezh Feed Plant. Muk.-elev. prom. 25 no.5:21-23 My '59. (MIRA 12:8)

1.Glavnyy inzhener Voronezhskogo kombikormovogo zavoda.
(Voronezh--Feed mills)

TSVETANOV, M., inzh.; POPOV, V., inzh.

Standardization of the water-supply and sewerage materials used in building today. Ratsionalizatsiia 14 no. 1: 26-29 '64.

1. NIVK.

GUL'BIN, V.; POPOV, V.

Fighting for high productivity. Avt.dor. 28 no.8:4-5 Ag '65. (MIRA 18:11)

POPOV, V.

Determining the operating temperature and reliable indicators of domestic electric cookstoves. p. 34. RATSIONALIZATSIIA. (Institut za ratsionalizatsiia) Sofiya. Vol. 6, No. 1, Jan. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

POPOV, V.

Determing the operating temperature and reliable indicators of domestic electric cookstoves. p. 34.
RATSIONALIZATSIIA. (Institut za ratsionalizatsiia) Sofiya.
Vol. 6, no. 1, Jan. 1956.

SOURCE: EEAL - LC Vol. 5 No. 11 Nov. 1956

POPOV, V.

How we shall prepare to study our country. P.21. GEOGRAFIIA. (Bulgarsko geografsko druzhestvo) Sofiya. Vol. 5, No. 5, 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress Vol. 4, No. 12, December 1955

POPOV, V.

POPOV, V. New methods for testing welded constructions. p.37.

Vol. 6, no. 3, Mar. 1956 RATSIONALIZATSILA Sofiya, Bulgaria

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10 Oct. 1956

POPOV, V.

POPOV, V. Artesian well in Petrich. p. 7.

Vol. 5, no. 9, 1955
GEOGRAFIIA
Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 4 April 1956

POPOV, V.; CHETKAROV. M.

Electric conductivity of a liquid dielectric with high electric field intensity. p. 155. Sofia. Universitet. Fiziko-matematicheski fakultet. GODISMIK. MATEMATIKA I FIZIKA. Sofiya. Vol. 48, no. 1.

SOURCE: East European Accessions List. (EEAL) Library of Congress. vol. 5, No. 8, August 1956

POPOV, V.

Electric conductivity of waxlike dielectric in the melting zone. Doklady BAN 17 no.7:613-616 '64.

1. Predstavleno chl.-korr.E. Dzhakovym.

POPOV, V. ; NIKOLOV, P.

New methods of testing enameled conductors. (To be contd.) p. 30

Development of scientific research work in the field of metrology and the strengthening of the state service of measures and measuring instruments. p. 35

RATSIONALIZATSIIA. Vol. 6, No. 4, Apr. 1956

So. East European Accessions List Vol. 5, No. 9 September, 1956

POPOV, V.

New electrode holders for electric furnaces. p. 50.
(TEZHKA PROMISHLENOST. Vol. 4, No 1, 1955)

SO: Monthly List of East European Accession, (EEA[illegible], LC, VOL. 4, No. 9, Sept. 1955, Uncl.

POPOV, V.

POPOV, V. Combined spray nozzle for the oil furnace. p. 84. Vol. 8, no. 6, 1956. TRANSPORTNO DELO. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No.4,--April 1957

POPOV, V. (Kamerovo)

Economic regions and the distribution of productive forces in Siberia. Vop.ekon.no.1:29-41 Ja '57. (MLRA 10:3)
(Siberia--Regional planning)

ACC NR: AP6023049 (A) SOURCE CODE: UR/0416/66/000/004/0031/0036

AUTHOR: Popov, V. (Colonel); Shubin, S. (Engineer; Major)

ORG: None

TITLE: Training conference for officers in charge of mechanized field bakeries

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 4, 1966, 31-36

TOPIC TAGS: subsistance equipment, food service equipment, field food processing equipment, military training, military personnel

ABSTRACT: Supplying bread to troops during modern combat operations is a complex problem, one faced by the Food Supply Services, and despite recent improvements in field bread baking methods the primary objective of the Service is to train bakers. One method used to demonstrate the need for such training was a 15-day officers conference which took up organization of baking for military needs, installation of field bakeries and rules for use, orders for moving mechanical field bakeries from one site to another, operational management methods, and operation of mechanical field bakeries under combat conditions. A practical four-day field exercise was part of the agenda, and procedures in the field are described, as is a plan for tactical and special exercises. Orig. art. has: 1 figure.

SUB CODE: 06,15/SUBM DATE: None

Card 1/1

BULGARIA/Electricity - Dielectric.

Abs Jour : Ref Zhur Fizika, No 12, 1959, 27665 G

Author :

Inst : Popov, V.

Title : On the Electric Conductivity of Mica at High Temperatures

Orig Pub : Godishnik Sofiysk. un-t. Fiz.-matem. fak. 1956-1957 (1958), 51, No 1, 151-159

Abstract :

A measurement was made of the specific electric conductivity of "Muskovit" mica in the temperature range from 300 to 600° C in electric fields from 10 to 200 x 103 v/cm. In all the investigated temperature ranges, three regions were established for the variation of the electric conductivity with the field. In the first region Ohm's law holds. The critical magnitude of the electric field in this region increases with increasing temperature. In the second

Card 1/2

BULGARIA/Electricity - Dielectric.

G

Abs Jour : Ref Zhur Fizika, No 12, 1959, 27665

region the electric conductivity increases with increasing intensity of the electric field in accordance with the Pool law up to fields of ~ 2.1 x 10^5 v/cm. At still higher fields the increase in electric conductivity does not satisfy the Frenkel formula. In the third region the electric conductivity increases slowly with the field. At high temperatures (400 and 450° C) a tendency towards saturation appears together with the merging of all three regions. At still higher temperatures (> 500° C) the only region observed is one in which Ohm's law is satisfied. The increase in the electric conductivity in the second region at temperatures of 400 and 450° C can be explained with the aid of the Ioffe theory (Ann. Physik, 1932, 72, 461 - 500).

Card 2/2

POPOV, V. (g.Toguchin, Novosibirskoy oblasti)

Development of students' interest in study and constructive work. Politekh.obuch. no.10:87 O '59. (MIRA 13:2)
(Toguchin--Student activities)

KISLYATSKIKH, K.; POPOV, V.

Fumigation of pea seeds. Zashch. rast. ot vred. i bol. 9 no.2:29 '64. (MIRA 17:6)

1. Glavnyy agronom Karantinnoy inspektsii Yuzhno-Kazakhstanskogo kraya (for Kislyatskikh). 2. Starshiy agronom-fumigator Karantinnoy inspektsii Yuzhno-Kazakhstanskogo kraya (for Popov).

POPOV, Vasil; PETKOV, Valentin; SIMIDCHIEV, Todor

Protection of bees from poisoning during the spraying of alfalfa with Fonition. Selskostop nauka 2 no.8:1018-1025 '63

POPOV, VASIL

New Electrode Holders for Electric Furnaces.
In the Bulgarian Heavy Industry, 1:50:Jan 55

POPOV, Veselin, inzh.; TSVETANOV, Metodi, inzh.

Automatic vacuumization of centrifugal pumps by a hydromechanical device. Khidrotekh i melior 9 no.10:301-303 '64.

POPOV, Viktor, inz.; SKALA, Karel, dr.

Pelletization of magnesite flue dust from rotary furnaces. Rudy 11 no.8:256-258 Ag '63.

1. Ustav pro vyzkum rud, Praha.

FOFOV, VIKTORIN

"Citrus Trees Growing Tea, Tung Oil Tree Kilkhozim Molotov"

Soviet Source: P: Vokrug Sveta Moscow July 1941
Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 25053

[redacted]

Krasnodarskiy Kray

Concerning: Research Institutes for Growing Sub-Tropical Plants

Soviet Source: P: Vokrug Sveta, Moscow, July 1947
Abstracted in USAF "Treasure Island" Report No. 15421, on file in Library of Congress, Air Information Division.

POPOV, V. A.

"The Fundamentals of Aviation Technology," Publ. by the State Defense Publ. House, the Chief Editorial Offices of Aviation Lit., Moscow, 1947.

POPOV, Vsevolod Alekseevich.

Russia - the birthplace of aeronautics and aviation; public lecture. Moskva, Pravda. 1951. 28 p. (52-37049)

RL526.R9P62

1. Aeronautics - Russia.

POPOV, V.A.

[Airplane; structure and flight] Samolet; ustroistvo i polet. Moskva, Voen. izd-vo, 1953. 122 p. (MLRA 6:9)
(Airplanes)

Popov, V.A.

YUR'YEV, B.N., akademik; POPOV, V.A.

A.F. Mozhaiskii's invention of the first airplane to leave the ground. Izv.AN SSSR. Otd.tekh.nauk no.7:1065-1073 Jl '53. (MLRA 6:8)
(Aeronautics--History) (Mozhaiskii, Aleksandr Fedorovich, 1825-1890)

POPOV, V. A.

Osnovy aviatsionnoi tekhniki. Moskva, Oborongiz, Glav. red. aviats. lit-ry, 1947. 624 p.

Title tr.: Fundamentals of aeronautical engineering.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

SHAUROV, N.I., polkovnik; SIDOROVA, M.A., starshiy nauchnyy sotrudnik; POPOV, V.A., redaktor; BOGOMOLOVA, M.F., redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor

[Aeronautics and aviation in Russia to 1907; a collection of documents and papers] Vozdukhoplavanie i aviatsiia v Rossii do 1907 g.; sbornik dokumentov i materialov. Pod red. V.A.Popova. Moskva, Gos. izd-vo obor. promyshl., 1956. 951 p. (MLRA 10:2)

1. Russia (1923- U.S.S.R.) Tsentral'nyy gosudarstvennyy voyenno-istoricheskiy arkhiv. Glavnoye arkhivnoye upravleniye.
(Aeronautics--History)

POPOV, V. A., ed.

Istoriia vozdukhoplavaniia i aviatsii v SSSR po arkhivnym materialam i svidetel'stvam sovremennikov. Period do 1914 g. Moskva, Gos. izd-vo obor. promyshl., 1944. 647 p., ports., facsims., diagrs.

Bibliography at end of each chapter.

Title tr.: History of aeronautics and aviation in the U. S. S. R. on the basis of archival materials and of contemporary testimony.

TL526.R9P6

SC: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

AID P - 4572

Subject : USSR/Aeronautics - training

Card 1/1 Pub. 135 - 7/23

Authors : Fadeyev, L. N., Maj. and V. A. Popov, Eng.-Maj.

Title : Ballooning and "bouncing" of MiG-15 during the landing and the methods for their correction.

Periodical : Vest. vozd. flota, 2, 41-43, F 1956

Abstract : The authors analyze the reasons which cause the MiG-15 to balloon and bounce during the landing and suggest some methods for their correction. The article is of no particular interest.

Institution : None

Submitted : No date

GAREYEV, F.A.; POPOV, V.A.

Logical circuits on the basis of a diodeless cell with bridge coupling. Izv. vys. ucheb. zav. radiofiz. 7 no.2:352-357 '64 (MIRA 18:1)

1. Ural'skiy politekhnicheskiy institut.

[redacted], V.A.

Diodeless ferrite cell with bridge coupling. Izv. vys. uchet. zav.; radiofiz. 7 no.6:1180-1185 '64. (MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

L 12617-65 EWT(d)/EED-2/EWP(1) Pg-4/Pk-4/Po-4/Pq-4 IJP(c) GG/BB

ACCESSION NR: AP4039736 S/0141/64/007/002/0352/0357

AUTHOR: Gareyev, F. A.; Popov, V. A. B

TITLE: Logical circuits based on diodeless cells with bridge coupling

SOURCE: IVUZ. Radiofizika, v. 7, no. 2, 1964, 352-357

TOPIC TAGS: logic circuit, logic network, circuit gate magnetic core, bridge, magnetic core, trigger circuit

ABSTRACT: A possible way of constructing diodeless logic circuits with rectangular-hystereis-loop ferrites is proposed. The elementary diodeless bridge cell is analogous to the usual split-winding ferrite-diode cell with the reverse flow of information suppressed suitable core connection. The circuit is similar to that of L. A. Russell (IRE Convention Record v. 5, 106, 1957) in that it requires slow switching of the auxiliary cores; unlike the Russell circuit, however, the proposed circuit uses not transformer but choke coupling. Investigations have shown that the use of such a coupling results in higher speed, other conditions being equal. The circuit chosen for the elementary cell makes it possible to construct all the logic circuits and to effect branching of information in simple fashion. The uses of the elementary cell to synthesize circuits for logical negation,

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L 12617-65
ACCESSION NR: AP4039736

logical addition, logical multiplication, noncoincidence, and a dynamic flipflop are all demonstrated. The main advantage of such diodeless circuits is their increased reliability. Winding data for the coils are also given. Orig. art. has: 4 figures, 1 formula, and 1 table.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: 24May63 ENCL: 01

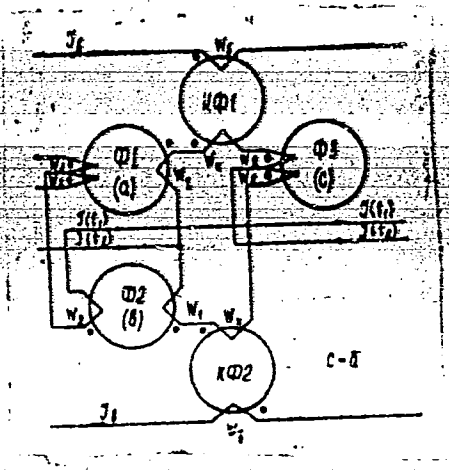
SUB CODE: DP, EC NR REF SOV: 001 OTHER: 002

Card 2/3

L 12617-65

ACCESSION NR: AP4039736

ENCLOSURE: 01



Diodeless bridge cell

Card 3/3

L 38110-65 EWT(d)/EWT(l)/EEC(b)-2/EED-2/EWP(l)/EWA(h) Pq-4/Pg-4/Peb/Pk-4
IJP(c) BB/GG

ACCESSION NR: AP5006029 S/0141/64/007/006/1180/1185

AUTHOR: Popov, V. A.

TITLE: Diodeless ferrite cell with bridge coupling

SOURCE: IVUZ. Radiofizika, v. 7, no. 6, 1964, 1180-1185

TOPIC TAGS: ferrite cell, rectangular hysteresis loop ferrite, diodeless ferrite circuit, shift register, switching circuit

ABSTRACT: In view of the fact that the elimination of diodes from digital switching circuits increases the circuit reliability, the author has investigated the performance of a diodeless ferrite switching cell using ferrite with rectangular hysteresis loop, capable of ensuring a directional flow of information similar to that provided by diodes. The operation of the circuit is analyzed with the shift register shown in Fig. 1 of the Enclosure used as an example. The analysis shows that when the circuit elements are correctly chosen and the windings are properly designed the diodeless bridge cell is capable of directional transmission of information. For the cell to operate it is essential to have push-pull pulsed supply of pulses that return the gating cores to their initial states.

Card 1/3

L 38110-65

ACCESSION NR: AP5006029

Various practical considerations governing the choice of the different cores are advanced, and suitable Soviet core types are recommended. Several possible cell variants were tested experimentally and have shown that the calculation method is sufficiently accurate. The maximum attained pulse repetition frequency was 5000 cps and the minimum timing current was 0.5 A. At a timing current of 1 A. the permissible fluctuations of the reset current amount to 0.8--1.4 A. A test of a 20-digit shift register has shown that the transient characteristics of the cells are practically identical, and that the stability zone of the device does not depend on the number of interconnected cells. Orig. art. has: 3 figures, 6 formulas, and 2 tables.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural Polytechnic Institute)

SUBMITTED: 24May63 ENCL: 01 SUB CODE: DP, EC

NR REF SOV: 001 OTHER: 002

Card 2/3

L 52034-65 EWT(1)/EEC(b)-2/EED-2/EWA(h) Peb/Pj-4 IJP(c) GS

ACCESSION NR: AT5011610 UR/0000/64/000/000/0368/0375

21
B+1

AUTHOR: Panov, G. I.; Popov, V. A.

TITLE: Logical circuits based on ferrite-diode cells with bridge coupling

SOURCE: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki, telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki. Lvov, 1962. Magnitnyye elementy avtomatiki telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki (Magnetic elements of automatic control, remote control, measurement and computer engineering); trudy soveshchaniya. Kiev, Naukova dumka, 1964, 368-375

TOPIC TAGS: bridge coupled cell, logical circuit element, ferrite diode cell, switching cell, ferrite core

ABSTRACT: Switching circuits using rectangular hysteresis loop ferrite cores can be designed with a certain limited number of possible couplings between the cores. Consequently, it seems worth studying the properties of known couplings of this type in detail with the aim of establishing definite engineering recommendations for the choice of pertinent parameters, elements, etc.. The so-called bridge coupling is rather seldom used because, according to the majority of authors, it contains too many elements, and the increased resistance of the cycling circuit makes the achievement of larger currents starting from low-voltage pulse sources

Card 1/2

L 52034-65
ACCESSION NR: AT5011610

difficult. However, an appropriate choice of cores and diodes and a correct determination of turn numbers may make this type of coupling desirable because: 1) there is a complete absence of any information exchange between the cores during the intervals between the cycle pulses; 2) information can be branched from one core to a number of other cores; 3) the circuit is relatively economical since the remagnetized core plays the role of an additional resistance in the bridge loop redistributing the currents into the bridge arms without producing any emf in the output coil but securing sufficient ampere-turns within the coupling loop for the remagnetization of (one or more) other cores; and 4) there are no stringent requirements imposed on the hysteresis loop. The discussion of the logical circuits using bridge-connected cells is followed by the calculations for a two-stroke bridge cell and the temperature stability of such circuits. Orig. art. has: 17 formulas, 8 figures, and 1 table.

ASSOCIATION: None

SUBMITTED: 29Sep64 ENCL: 00 SUB CODE: DP, EC

NO REF SOV: 003 OTHER: 000

mrc
Card 2/2

BIGEYEV, A. M.; BORODIN, G. L.; POPOV, V. A.; FILIPPOV, V. M.

Hydrogen behavior in the metal of high capacity and extra high capacity open-hearth furnaces. Izv. vys. ucheb. zav.; chern. met. 7 no.6:44-46 '64. (MIRA 17:7)

1. Magnitogorskiy gornometallurgicheskiy institut.

PETROV, G.M.; POPOV, V.A.

Designing operational semiconductor amplifiers. Priborostroenie no.3:8-12 Mr '58. (MIRA 11:4)
(Electric current rectifiers)

SOV/113-58-4-9/21

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TITLE: Cold Pressing of Electrodes (Kholodnoye vydavlivaniye elektrodov)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 26-27 (USSR)

ABSTRACT: The technological processes involved in the manufacture of copper or copperalloy electrodes of various dimensions (Figure 1) used for spot welding in the automobile industry wasted up to 55 % of the metal. NIITAvtoprom together with the Moscow Midget Car Plant have worked out and introduced into the production process a wasteless technology of cold pressing of electrodes on the hydraulic 25-ton P-462 press of the Chkalovskiy Zavod "Metallist" (Chkalov "Metallist" Plant) with its low hydraulic extractor. This method is based on tests of the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant). The designs of the press (Figure 2), punch (Figure 3) and the adapter pieces (Figure 4) are described and discussed. The cold-pressed and sharpened electrodes are shown on figure 5. In addition to the economy of ma-

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terial, the work expenditure is decreased by 3 times by the new process. It is suggested that one automobile plant establish a department for the manufacture of electrodes for spot welding by the new method and serve the entire economic district. There are 4 diagrams and 1 photo.

ASSOCIATION: NIITavtoprom and Moskovskiy zavod malolitrazhnykh avtomobiley (The Moscow Midget Car Plant)

1. Welding rods--Production 2. Hydraulic presses--Equipment
3. Hydraulic presses--Performance

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