OZOLIN', Ya. A.

OZOLIN', Ya. A. " The Possibility of preparing Silicate Bricks from Dolomitic Lime," Latvian State U. Chemistry Faculty. Riga, 1956 (Dissertation for the Degree of Candidate in Chemical Science.)

So: Knizhnaya letopis' No. 24, 1956

L 59229-65 EWG(j)/EWP(e)/EWT(m)/EPF(c)/... [illegible]
Pr-4/Ps-4 WW/RM/WH

ACCESSION NR: AP5016890 UR/0374/65/000/003/0115/0119
678:539.375

AUTHOR: Molchanov, Yu. M. (Riga); Ozolin', Ya. K. (Riga)

TITLE: Increasing the wear resistance of parts made from graphito-plastic

SOURCE: Mekhanika polimerov, no. 3, 1965, 115-119

TOPIC TAGS: plastic wear resistance, graphito-plastic, cast plastic, polymerization temperature, compression molding

ABSTRACT: The authors investigated the influence of the compression molding conditions on the physical and mechanical properties of graphito-plastics. Particular attention was paid to the relationship between the microstructure of the material and its wear resistance. Tests showed that the hardness of graphito-plastics is affected significantly by the magnitude of the operating pressure and the method of heating up to the polymerization temperature (heating under pressure enhances the mechanical properties of the plastics). The optimum operating pressure is around 700 kg/cm². A reduction below 10 min. in the soaking time (under pressure) results in a sharp drop in mechanical characteristics [illegible] appears that small particle-size graphito-plastics [illegible]

Card 1/2

L 59229-65

ACCESSION NR: AP5016890

result in the best stabilized plastic samples. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 12Oct64 ENCL: 00 SUB CODE: MT

NO REF SOV: 005 OTHER: 000

Card 2/2

TRET'YAKOV, A.V., kand.tekhn.nauk; GARBER, E.A., inzh.; OZOLIN, Yu.A., inzh.

Investigating the performance of cold rolling mill rolls with internal water cooling. Sbor. st. NIITIAZHMASHa Uralmashzavoda no.6:239-243 '65. (MIRA 18:12)

L 63501-65 EWP(k)/EWP(z)/EWA(c)/EWT(m)/EWP(b)/T/EWA(d)/EWP(w)/EWP(t) MJW/JD/HW

ACCESSION NR: AT5018187 UR/3104/65/000/006/0275/0278

49 40 3+1

AUTHORS: Trofimov, G. K. (Engineer); Ozolin, Yu. A. (Engineer)

TITLE: Deformation produced by multi-pass cold rolling

SOURCE: Ural'skiy mashinostroitel'nyy zavod, Sverdlovsk. Nauchno-issledovatel'skiy institut tyazhelogo mashinostroyeniya. Proizvodstvo krupnykh mashin, no. 6, 1965. Prokatnoye oborudovaniye; konstruirovaniye, raschet i issl... (Rolling equipment; construction, design and investigation); sbornik statey, ...

TOPIC TAGS: plastic deformation, solid mechanical property, cold rolling, steel

ABSTRACT: The design and operation of devices for the plastic cold working of metals require a thorough knowledge of the changes in the mechanical properties of the material. These ... [illegible] ... number and speed of passes through the mill, and the pattern of the internal stresses. According to Pomp, Poellayn, ..., and A. A. [illegible] ... passes has no substantial effect on the material. I. M. Pavlov, A. A. Geta, [illegible] Khimushin, V. P. Severdenko, and N. P. Shchetvin oppose this opinion. A detailed analysis of this problem is presented by A. V. Tretyakov and [illegible] (Izmeneniya mekhanicheskykh svoystv metallov i splavov pri kholodnoy prokatke.

Cord 1/2

L 63501-65

ACCESSION NR: AT5018187

9

Sverdlovsk, Metallurgizdat, 1960) and by A. V. Tretyakov (Rezervy stanov kholodnoy prokatki. Sverdlovsk, Metallurgizdat, 1962). To verify the existing opinions and to obtain experimental data, control tests were carried out on 10kp, U8GA, 65G, Kh05, 30KhGSA, 85KhF and Kh18N9 steels. The size of the specimens was 200 x 400 mm x 1.5 to 1.7 mm. The number of passes was 1, 10, 25 and 50, producing in each case a total thickness reduction of 29-40%. The characteristics determined in the annealed state and after the cold rolling were the tensile strength, elongation, hardness, and the number of reverse bends. For the sake of better comparison, the experimental data were prorated to uniform thickness reductions of [illegible]. It is concluded that the tensile strength, yield point, and hardness increase, while the relative elongation becomes larger as the number of passes increases. This effect is more pronounced in alloy steels. Orig. art. has: 4 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: IE, MM

NO REF SOV: 002 OTHER: 000

Card 2/2

OZOLINA, A.

Effect of tuberculous infection on the lipid metabolism in guinea pig liver. Vestis Latv ak no.10:149-154 '60.
(EEAI 10:9:10)

(TUBERCULOSIS) (LIPIDS) (LIVER)

OZOLINA, A.

A study of the changes of lipogenesis in animal organisms under influence of experimental tuberculosis. Report II. p. 139.

LATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 3, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

OZOLINA, A.

GENERAL

PERIODICALS: VESTIS, NO. 8, 1958

OZOLINA, A. A study of the changes of lipogenesis in animal organisms under influence of experimental tuberculosis. 1. Qualitative and quantitive content of lipoids in organism of rats under influence ofexperimental tuberculosis, depending on food. p. 75.

Monthly list of East European Accessions (EEAI) LC, VOL. 8, No.2 February 1959, Unclass.

BIRKMANE, K.; BUMBURE, M.; GALENIEKS, P., prof., doktor; JAUDZEME, V.; PETERSONE, A.; OZOLINA, E., retsenzent; LANGE, V., retsenzent; DIMDINS, J., red.; KRASOVSKA, M., tekhn. red.

[Flora of the Latvian S.S.R.]Latvijas PSR flora. P.Galenieka red. Riga, Latvijas Valsts izdevnieciba. Vol.4. 1959. 524 p. (MIRA 15:1) [In Latvian]

(Latvia--Botany),

1. OZOLINA, Z.

2. USSR (600)

4. Latvia - Water Lilies

7. Small water lily (Nymphaea tetragona Georgi), a plant species new to the flora of the Latvian S.S.R.
Latv. PSR Zin. Akad. Vestis 4, 1951

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

1. OZOLINA, F.
2. USSR (600)
4. Water Lilies - Latvia
7. Small water lily(Nymphaea tetragona Georgi), a plant species new to the flora of the Latvian S.S.R. Latv.PSR Zin.Akad.Vestis 4 1951.

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

OZOLINA, Gundega; FELDHUNE, A., red.; LEMBERGA, A., tekhn. red.

[How the plant uses solar light; photosynthesis] Ka augs izmanto saules gaismu; fotosinteze. Riga, Latvijas PSR Zinatnu Akad. izdevnieciba, 1962. 50 p. (MIRA 16:5)
(Photosynthesis)

OZOLINA, G.K.

RABOTNOVA, I. L., YEGOROVA, V. K., OZOLINA, G. K. and ELETSKIY, I. K.

Moscow State University, Biologo-Soil Institute.
"Some features of the physiology of Clostridium pasteurianum,"
SO: MIKROBIOLOGIA, Vol. 21, No. 4, July/Aug 52.

GUNAR, I.I., prof.; STRUKHIN, A.M., starshiy nauchnyy sotrudnik, kand. biolog. nauk; GZOLINA, L.A., kand. biolog. nauk

Ionic and structural changes in excited plant cells. Izv. TSKHA no.2:68-86 '65. (MIRA 18:9)

1. Kafedra fiziologii rasteniy Moskovskoy akademii sel'skokhozyaystvennykh nauk imeni Timiryazeva.

SINYUKHIN, A.M.; OZOLINA, I.A.

Electrophysiological study of the Nitella flexilis plasmalemma. Report No.2. Electric activity of the cytoplasmic surface layer of N. flexilis cells filled with synthetic salt solutions. Biofizika 10 no.3:454-462 '65. (MIRA 18:11)

1. Laboratoriya iskusstvennogo klimata Moskovskoy sel'skokhozyaystvennoy akademii imeni Timiryazeva. Submitted Jan. 1, 1964.

RABOTNOVA, I. L.: YEGOROVA, V. K. :
OZOL'NIA, G. K.: YELETSKIY, I. K.

Bacteria, Anaerobic

Some peculiarities in the physiology of Clostridium Pasteurianum. Mikrobiologiia 21 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

RABOTNOVA, I. L.; YEROCHOVA, V. E.; [illegible]

Bacteria, Anaerobic

Some peculiarities in the physiology of Clostridium Pasteurianum. Mikrobiologiia 21 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958, Uncl.

OZOLINA, G.K.,
1. L. RA OTNOVA, Mikrobiologiya 21, 427-37 (1952)

L 34555-65

ACCESSION NR: AR5003961 S/0299/64/000/023/R036/R036

SOURCE: Ref. zh. Biologiya. Sv. t., Abs. 12R270 7

AUTHOR: Gunar, I. I.; Sinyukhin, A. M.; Ozolina, I. A. 13

TITLE: Role of bivalent cations in excitation of a single plant cell

CITED SOURCE: Izv. Timiryazevsk. s.-kh. akad, no. 3, 1964, 82-86

TOPIC TAGS: nitella, plant, cell, ion concentration, excitation, protoplasm flow, calcium ion, magnesium ion, substitution reaction

TRANSLATION: The possibility of substituting Mg^{2+} for Ca^{2+} in a [illegible] action currents generated by single [illegible] action currents which [illegible] The cation substitution affected the excitability [illegible] also affected structural changes in protoplasm: at the [illegible] of action current passage, the circular flow [illegible]

Card 1/2

L 34555-65

ACCESSION NR: AR5003961

not stop as under normal conditions, but only slowed down by 50% as compared to the movement rate for protoplasm at rest. With a tenfold reduction of K^+ in the medium and Mg^{2+} concentrations of [illegible] and 0.0002 n., the circular flow of protoplasm stopped in all cells when action currents were removed, but with a Mg^{2+} concentration of 0.[illegible] n. the flow stopped [illegible]. With low Mg^{2+} concentrations and a decreased K^+ level, no stoppage occurred.

L. Tsofina.

SUB CODE: LS ENCL: 00

Card 2/2

GUNAR, I.I.; SINYUKHIN, A.M.; OZOLINA, I.A.

Rest potential of cells of Nitella flexilis filled up with artificial salt solutions. Dokl. AN SSSR 158 no.6:1430-1433 O '64. (MIRA 17:12)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A. Timiryazeva. Predstavleno akademikom A.I. Kursanovym.

L 31010-65

ACCESSION NR: AR5002997 S/0299/64/[illegible]

SOURCE: Ref. zh. Biologiya, Svodnyy tom, Abs. 11B144

AUTHOR: Sinyukhin, A. M.; [illegible]ina, I. A.

TITLE: Ion flows in resting an[illegible] excited [illegible]

CITED SOURCE: Dokl. Rossiysk. s.-kh. akad. im. K. A. Timiryazeva, vyp. 99, 1964, 383-388

TOPIC TAGS: Nitella flexilis, plant, cell, ion flow, radioisotope, calcium, bromine, potassium

TRANSLATION: The kinetics of ion flows was studied in single cells of Nitella flexilis [illegible]

Card 1/2

L 3L076-65

ACCESSION NR: AR5002997

as stimuli. In all variants of the experiments the experimental solution consisted of: $1 \cdot 10^{-3}$ n. KCl, NaCl, CaCl$_2$ and MgCl$_2$. [illegible] was shown that during excitation a redistribution of K$^+$, [illegible] Br$^-$ takes place between the [illegible] the flows of Na$^+$ [illegible] of Ca^{2+} [illegible] an increased outflow of Cl$^-$ was observed. [illegible]

SUB CODE: LS ENCL: 00

Card 2/2

GUNAR, I.I.; SINYUKHIN, A.M.; OZOLINA, I.A.

Action potential of Nitella flexilis cells filled with artificial salt solutions. Dokl. AN SSSR 160 no.4:956-959 F '65.
(MIRA 18:2)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A. Timiryazeva.
Submitted March 21, 1964.

OZOLINA, I. M.

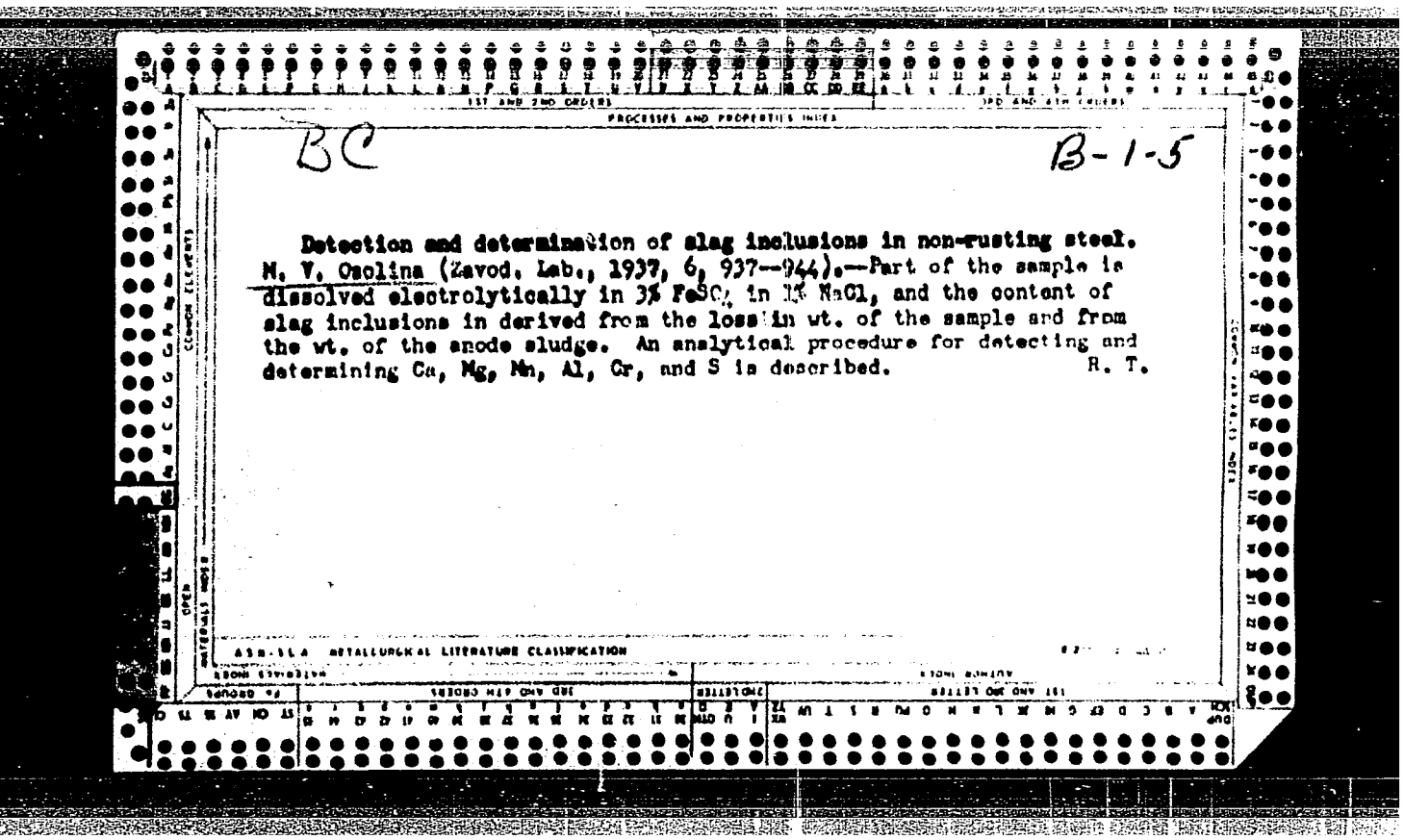
OZOLINA, I. M.: "The Testing and Selection of Varieties of Tomatoes for Hothouse Cultivation under the Conditions of the Southern Urals." Author's abstract of a dissertation submitted at the Omsk Agricultural Inst imeni S. M. Kirov. Omsk, 1956. (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis', No. 19, 1956.

OZOLINA, Z.V.

Automatic bottle wrapping machine. Spirt.prom. 23 no.7:48 '57.
(MIRA 11:1)

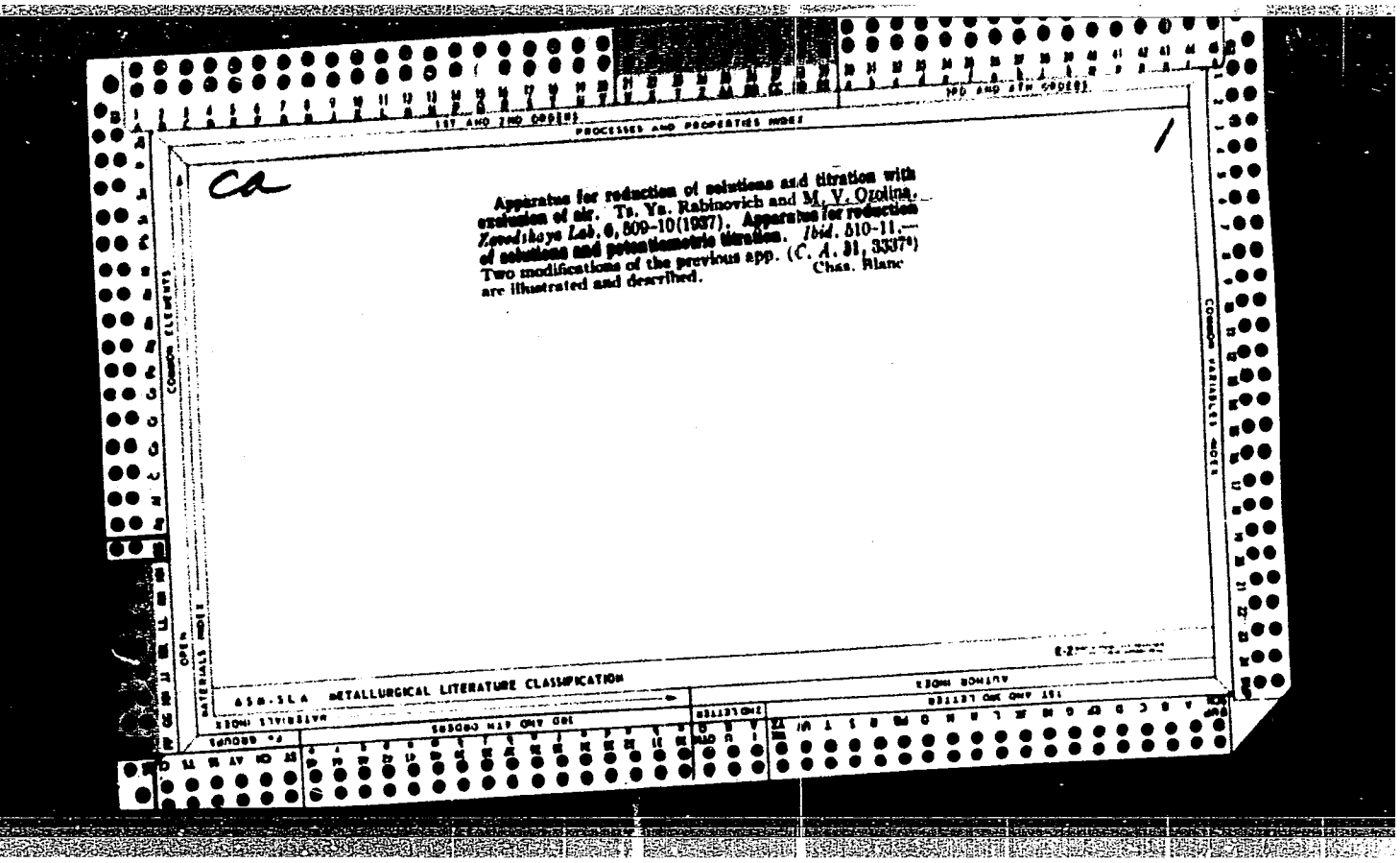
(Wrapping machines)
(Liquor industry--Equipment and supplies)

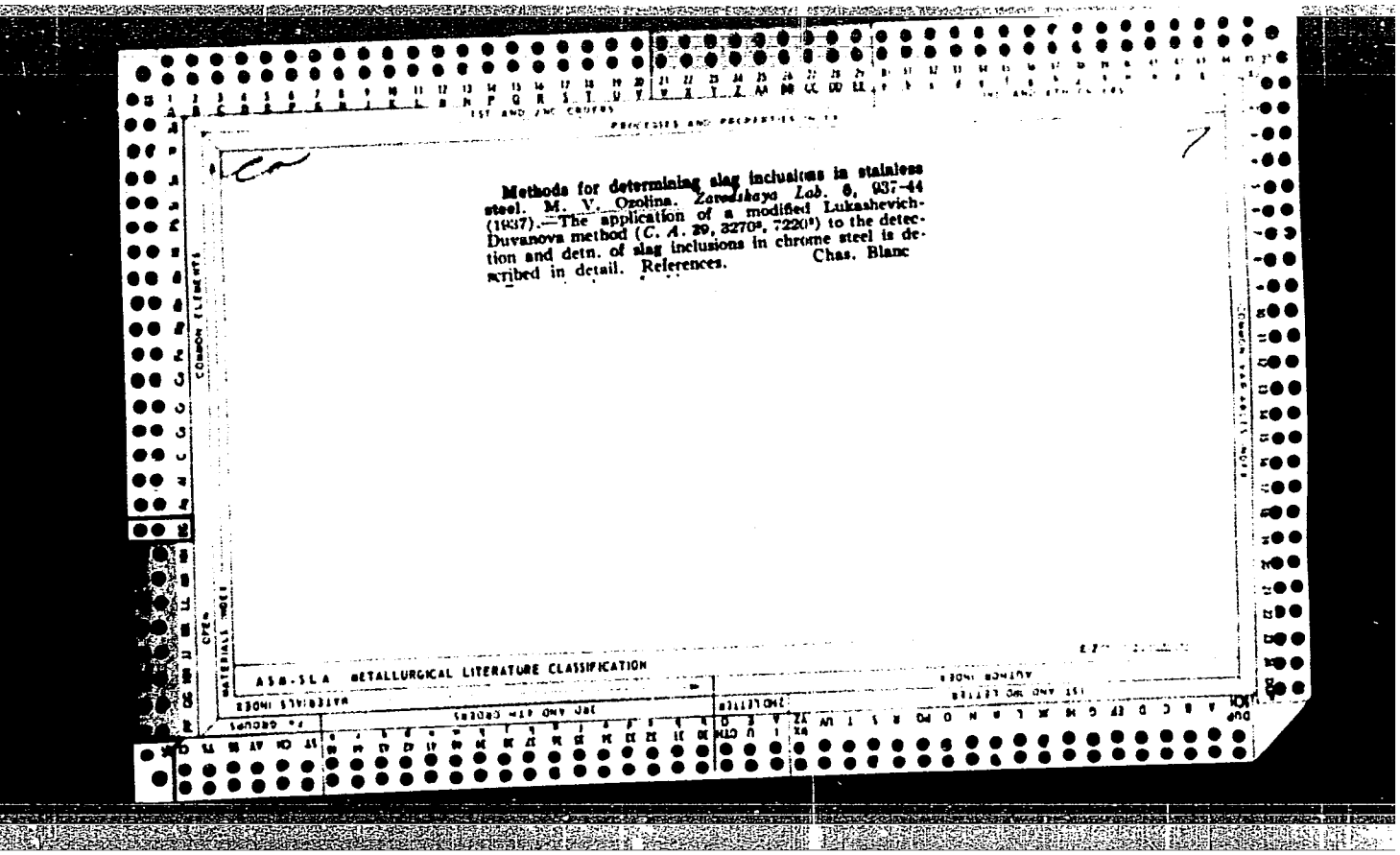


BC

B-1-5

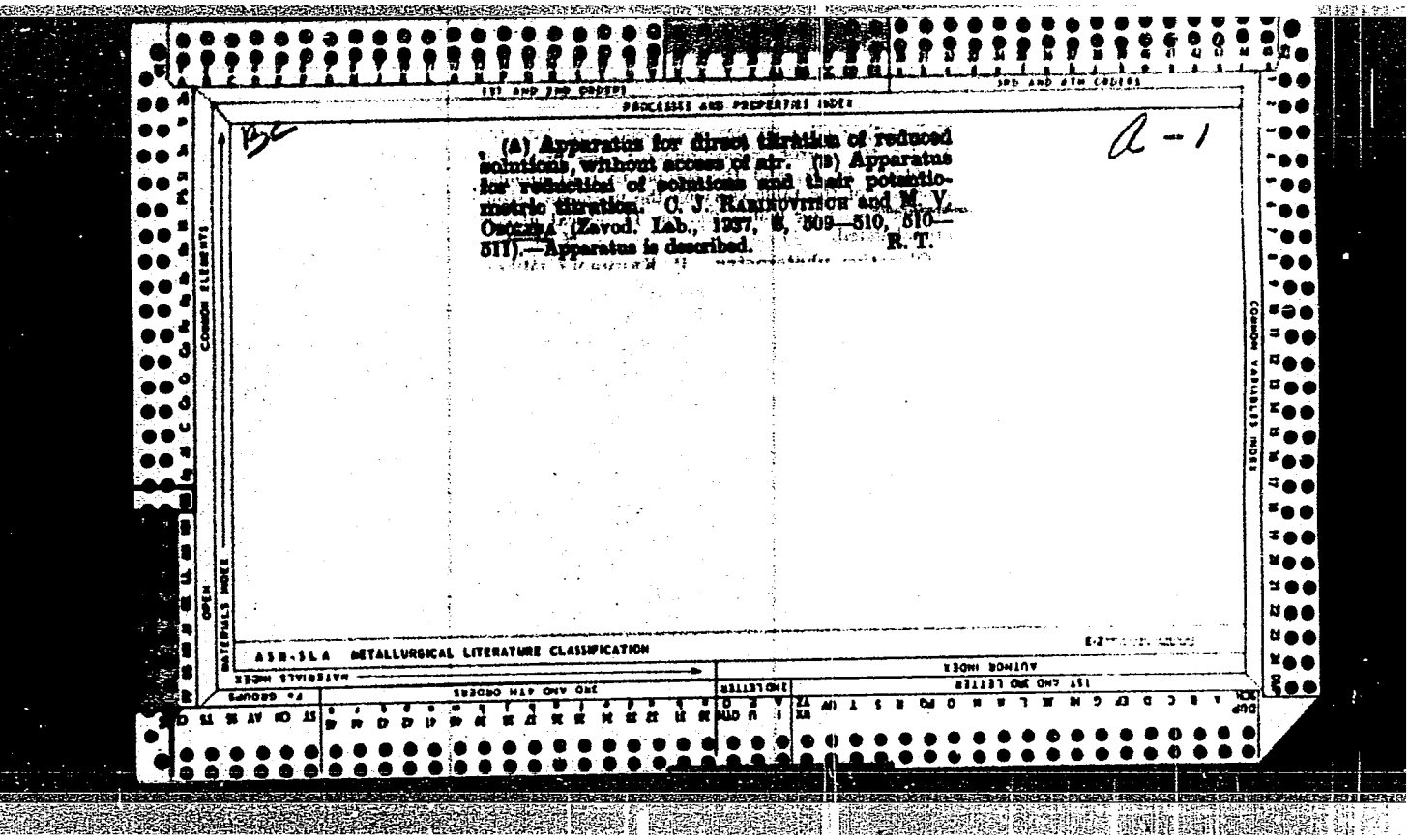
Detection and determination of slag inclusions in non-rusting steel. N. V. Osolina (Zavod. Lab., 1937, 6, 937--944).--Part of the sample is dissolved electrolytically in 3% $FeSO_4$ in 1% NaCl, and the content of slag inclusions in derived from the loss in wt. of the sample and from the wt. of the anode sludge. An analytical procedure for detecting and determining Ca, Mg, Mn, Al, Cr, and S is described. R. T.





Methods for determining slag inclusions in stainless steel. M. V. Ozolina. *Zavodskaya Lab.* 6, 937–44 (1937).—The application of a modified Lukashevich-Duvanova method (*C. A.* 29, 3270[8], 7220[9]) to the detection and detn. of slag inclusions in chrome steel is described in detail. References. Chas. Blanc

A S M - S L A METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX

BC

A-1

(A) Apparatus for direct titration of reduced solutions, without access of air. (B) Apparatus for reduction of solutions and their potentiometric titration. O. J. Rankovitch and M. V. Ostrina (Zavod. Lab., 1937, 6, 509—510, 510—511).—Apparatus is described. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Z. D. Ozolina (USSR), N. Nikonov, I. P. Mamchenkov

" Peat fertilizers, their types and effectiveness of usage "

Report submitted for the 2nd International Peat Congress, Leningrad, 15-22 Aug 63.

BODROVA, Yevdokiya Maksimovna, kand. sel'khoz. nauk; OZOLINA, Zoya Dmitriyevna, kand. sel'khoz. nauk; SHULEYKIN, P.A., red.; KUDRYAVTSEVA, O.V., tekhn. red.

[Organic fertilizers] Organicheskie udobreniia. Moskva, Izd-vo "Znanie," 1963. 52 p. (Narodnyi universitet kul'tury. Sel'skokhoziaistvennyi fakul'tet, no.10) (MIRA 16:10)
(Farm manure) (Compost)

OZOLINA, Z.D., kand. sel'skokhoz. nauk; BLINOVA, G.M.

Ways of increasing the availability of peat nitrogen to plants. Torf. prom. 40 no.2:22-25 '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya, Moskva.
(Plants—Nutrition) (Nitrogen) (Peat)

OZOLINA, Z.D., kand.sel'skokhoz.nauk; BLINOVA, G.M.

Methods of conducting the chemical analysis of peat-mineral-ammonium fertilizers. Torf.prom. 39 no.4:17-21 '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya, Moskva.
(Fertilizers and manures--Analysis)

BODROVA, Yevdokiya Maksimovna, kand. sel'khoz. nauk; OZOLINA, Zoya Dmitriyevna, kand. sel'khoz. nauk; BORODKINA, L.E., red.

[Simultaneous use of organic and mineral fertilizers] Sovmestnoe primenenie organicheskikh i mineral'nykh udobrenii. Moskva, Rossel'khozizdat, 1965. 139 p. (MIRA 18:8)

BODROVA, Yevdokiya Maksimovna, kand. sel'khoz. nauk; OZOLINA, Zoya Dmitriyevna, kand. sel'khoz.nauk; ULIN, I.I., red.; SAYTANIDI, L.D., tekhn. red.

[Organic fertilizers and their use]Organicheskie udobreniia i ikh ispol'zovanie. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1961. 193 p. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya (for Bodrova, Ozolina).
(Fertilizers and manures)

SOKOLOV, A.A.; BEL'KEVICH, P.I.; CHULYUKOV, M.A.; NIKONOV, M.N.; OZOLINA, Z.D.; TIMOFEYEV, A.V.

Research and experimental designing and prospects for their further development. Torf. prom. 37 no.5:12-18 '60. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy promyshelnnosti (for Sokolov). 2. Institut torfa AN BSSR (for Bel'kevich). 3. Kalininskiy torfyanoy institut (for Chulyukov). 4. TSentral'naya torfo-bolotnaya opytnaya stantsiya (for Nikonov). 5. Vsesoyuznyy institut udobreniy i agropochvovedeniya (for Ozolina).

(Peat industry)

BODROVA, Yevdokiya Maksimovna, kand. sel'khoz. nauk; OZOLINA, Zoya Dmitriyevna, kand. sel'khoz. nauk; ULIN, I.I., red.; SAYTANIDI, L.D., tekhn. red.

[Organic fertilizers and their use] Organicheskie udobreniia i ikh ispol'zovanie. Moskva, Izd-vo MSKh RSFSR, 1961. 193 p. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya (for Bodrova, Ozolina).
(Fertilizers and manures)

MAMCHENKOV, I.P., kand.sel'skokhozyaystvennykh nauk; OZOLINA, Z.D., kand.sel'skokhozyaystvennykh nauk

Efficient method of utilizing peat for fertilizer. Zemledelie 8 no.2:38-43 F '60. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya.
(Peat) (Fertilizers and manures)

BODROVA, Ye.M.; OZOLINA, Z.D., kand.sel'skokhozyaystvennykh nauk

Accumulation and storage of local organic fertilizers in winter.
Zemledelie 6 no.12:22-27 D '58. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya.
(Farm manure)

PETERSONE, Anna; OZOLINA, M., farmats. retsenzent; SUSTERS, J., kand. med. nauk, retsenzent; DIMDINS, J., red.; KRASOVSKA, M., tekhn. red.

[Wild medicinal plants] Savvalas arstniecibas augi. Riga, Latvijas Valsts izdevnieciba, 1961. 457 p. (MIRA 15:3)
(BOTANY, MEDICAL)

1. OZOLINA, Z. D.: PCHELKIN, V. U.

2. USSR (600)

4. Compost

7. Using composts to increase the yield of farm crops. Dost. sel'khoz, no. 1, 1953.

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

OZOLINA, Z.V.

Automatic labeling machine. Spirt. prom. 24 no.1:29-31 '58.
(MIRA 11:3)

(Labeling machines)
(Distilling industries--Equipment and supplies)

OZOLINA, Z.V.

SOV/19-58-6-649/685

AUTHORS: Zinov'yev, N.P., Marchenkov, A.Ye., Aknnn, L.A., Gerdyush, K.K., Stepanov, I.A., Abzriyelovich, S.S., Galasov, P.N., Ozolina, Z.V., and Braznnikov, P.G.

TITLE: A Machine for Automatically Wrapping Bottles in Paper (Mashina dlya avtomaticheskogo zavorachivaniya butylok v bumagu)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 144 (USSR)

ABSTRACT: Class 81a, 15$_{01}$. Nr 113978 (581273 of 29 July 1957). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A machine with a sprocket wheel conveyer band with sockets; a rocking lever for laying bottles into the sockets; semi-cylindrical grips with rollers and combs for guiding the wrapping paper, and a three-finger grip; arranged so that a bottle is lifted, wrapping up and put back into the conveyor socket; a knife cutting off paper running off a roll; and a discharge table with two rocking rol-

Card 1/2

SOV/19-58-6-649/685

A Machine for Automatically Wrapping Bottles in Paper

lers, a rocking lever and a plate bending and pressing the remaining loose paper end to the bottom of the bottle.

Card 2/2

JUKNA, Arturs; ZIEDINS, Indulis; OZOLINS, Aldis; BANKIERIS, Janis; ZUMBERGA, M., red.

[New materials from wood waste] Jauni materiali no koksnes atliekam. Riga, Latvijas PSR Zinatnu akad. izd-ba, 1963. 130 p. [In Latvian] (MIRA 17:6)

OZOLINS, A.

Technical properties of chip plates prepared by the method of the Institute of Forestry Problems. p. 183.

BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNOMU KHOZIAISTVU. (Latvijas PSR Zinatnu akademija. Biologijas Zinatnu nodala) Riga, Latvia, No. 15, 1958. In Russian.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

OZOLIIS, A.

Furniture from chip plates. p. 195.

BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNOMU KHOZIAISTVU. (Latvijas PSR Zinatnu akademija. Biologijas Zinatnu nodala) Riga, Latvia, No. 15, 1958. In Russian.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

17.1

Salt and phosphate content, temperature, surface currents, and wind direction in the Irben Channel, determined by the lightship "Laima." K. Kanepi and J. [illegible] (Latvi. Univ. [illegible] 1939, 4, 473—508).—The relation between direction of the wind and of surface currents, temp., and NaCl and PO_4''' content of the H_2O of the Irben Channel (connecting the Gulf of Riga and the Baltic Sea) has been determined. The NaCl varies with the wind direction since this causes change in current direction. The PO_4''' content is small. Its seasonal variation is connected with the amount of phytoplankton present. A. J. M.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

2

The salt and phosphorus content, the temperature and the flow of water, as well as the wind velocities, in the Irbeesk narrows, measured from the lightship "Laima." E. Zariņš and J. Ozoliņš. *Acta Univ. Latviensis, Kim. Fakultat.* Ser. 4, No. 13, (in Lettish, 473-99; in German, 500-3)(1939).—Daily samples of water collected at 0 and at 15-m. depths, at 7:00 a. m., in the narrows connecting the Bay of Riga with the Baltic sea from June, 1937, until June, 1938, show that the salt content depended upon the direction of water flow which in turn depended upon the direction and velocity of the wind. The water temp. depended upon the air temp.; at 0 meters it reached a min. of +0.3° in Jan. and a max. of 19.5° in Aug.; at 15 m. it reached a min. of +0.6° in Jan. and a max of 16.5° in Sept. At 0 meters the salt content attained a max. of 7.06% in Nov. and a min. of 6.15% in Aug.; at 15 m. the salt content attained a max. of 7.06% in Nov. and a min. of 6.40% in Sept. If the temp. of the water rose, the salt content fell, and reversely. The content of P_2O_5 could not be related to the salt content, the temp. or flow of water; due to the activity of the phytoplankton the P_2O_5 remains at a low level. At 0 meters it reached a max. of 13 mg. P_2O_5 per cu. m. in March and a min. of 4 mg. in Jan.; at 15 m. it reached a max. of 15 mg. in March and a min. of 4 mg. in Sept. The P content was higher at the lower levels because of the absence of the plankton. In contrast to the waters from the Bay of Riga, the waters from the Baltic sea contained more P. Water from the Bay of Riga contains only 5% salt. Because the water at the 0 and 15-meter strata does not move in the same direction, the changes in the temp. and salt content in these 2 strata do not correspond.

Frank Maresh

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

Ozolins, J.

PHASE I BOOK EXPLOITATION SOV/4226

Riga. Universitate

Uchenyye zapiski, t. 14. Khimicheskiy fakul'tet, 4 (Scientific Notes, Vol 14, Chemistry Faculty, 4) Riga, 1957. 251 p. 550 copies printed.

Eds. (Title page): A.F. Iyevin'sh, Professor, Doctor of Chemistry; L.I. Lepin', Member of the Academy of Sciences Latviyskaya SSR, Professor, Doctor of Chemistry; G.Ya. Vanag, Professor, Doctor of Chemistry; Tech. Ed.: A. Peterson.

PURPOSE: This book is intended for inorganic chemists and scientists in the ceramics industries.

COVERAGE: The book contains 22 articles on organic chemical synthesis and analysis and the physicochemical properties and compositions of ceramic and refractory materials. No personalities are mentioned. Figures, tables, and references accompany the articles.

AVAILABLE: Library of Congress

JA/rm/gfm
9/29/60

Card 4/4

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

a-2

BC

Bromine and silica contents of [water from] Riga Bay and the Baltic Sea. E. Zarins and J. Ozolins (Latvij. Univ. Raksti, 1938, 3, 321—327).—Results are tabulated. [illegible] J. W.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

AUTHOR INDEX

OZOLINS, K.

GENERAL

PERIODICALS: VESTIS No. 2, 1958
OZOLINS, K. To Academican Professor Janis Endzelins. p. 5.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

OZOLIN'SH, A.

USSR/Electronics - Receivers Jan 52
Rectifiers

"A Rectifier for Supplying the 'B-912' Radio Receiver," A. Ozolin'sh, Riga

"Radio" No 1, p 44

Describes a rectifier for supplying the B-912 receiver (produced by the Plant imeni A. S. Popov) from the line. The unit consists of a selenium or copper-oxide (but preferably a type S-18A4-8/1 selenium) rectifier connected in a bridge to give 150 v and a current of about 70 ma.

239T56

OZOLIN'SH, A.A.

OZOLIN'SH, A.A., insh.

Creating an air curtain in the drying compartments of brick plants. (MIRA 11:1)
Rats. i izobr. predl. v stroi. no.3:71-74 '57.
(Air curtains) (Bricks--Drying)

ALKSNIS, A.; IKAUNIYEKS, Ya. [Ikaunieks, J.]; OZOLIN'SH, G. [Ozolins, G.]; TSIMAKHOVICH, N.

Radio observations of the partial solar eclipse of February 15, 1961. Izv. AN Latv. SSR no.5:85-88 '62. (MIRA 16:7)

1. Astrofizicheskaya laboratoriya AN Latviyskoy SSR.
(Eclipses, Solar--1961) (Radio astronomy)

OZOLIN'SH, G.[Ozolins, G.](Riga); IEVIN'SH, A.[Ievins, A.](Riga)

Use of extrapolation in the pictures taken by the asymmetrical method; determination of constant silicon lattice. Vestis Latv ak no.12: 61-68 '60. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut khimii.

(Lattice theory) (Silicon)

OZOLIN'SH, G.V. [Ozolins, G.]; AVERKIYEVA, G.K.; IYEVIN'SH, A.F. [Ievins, A.]; GORYUNOVA, N.A.

X-ray diffraction study of some compounds of the type A^3B^5 with stoichiometric deviations. Kristallografiia 7 no.6:850-853 N-D '62. (MIRA 16:4)

1. Institut khimii AN Latviyskoy SSR i Fiziko-tekhnicheskiy institut AN SSSR.
(X-ray diffraction examination) (Indium arsenide crystals)
(Gallium arsenide crystals)

S/070/63/008/002/011/017
E073/E335

AUTHORS: Ozolin'sh, G.V., Averkiyeva, G.K., Goryunova, N.A. and Iyevin'sh, A.F.

TITLE: X-ray investigation of gallium and indium antimonides

PERIODICAL: Kristallografiya, v. 8, no. 2, 1963, 272

TEXT: To elucidate the width of the range of homogeneity in type $A^{III}B^{V}$ compounds the exact lattice constants of indium and gallium antimonides were determined by the asymmetric method, using the technique described in an earlier published paper of the author. The preparations were synthesized both in the stoichiometric composition as well as with deviations by 50 mole.% to both sides of the stoichiometric composition. The latter preparations showed a second phase which could be detected on polished sections and on X-ray diffraction patterns. The microhardness of the basic phase ($A^{III}B^{V}$) for these preparations corresponded to the microhardness of the compounds. The gallium antimonide was photographed using chromium and copper radiation. Indium antimonide was photographed using cobalt and nickel radiation and 23 exposures were made. The following lattice

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X-ray investigation ....

constants were obtained (Å):

	GaSb	InSb
Stoichiometric composition	6.09614	6.47965
Excess 50% Sb	6.09613	6.47961
Excess Ga or In	6.09609	6.47962.

The divergence between the lattice constants of the preparations with the stoichiometric composition and those which deviated from the stoichiometric was insignificant and fully within the limits of error of the method (± 0.0001 Å). In the same way as in the case of indium and gallium antimonides, the results of which were published earlier by the authors, the here obtained results lead to the conclusion that the lattice constants of the investigated compound type $A^{III}B^{V}$ do not depend on the excess A^{III} or B^{V} during their synthesis. The obtained results permit assuming, for the compounds investigated, the following most likely magnitudes of the lattice constants: for GaSb a = 6.09612 ± 0.00009 Å; for InSb a = 6.47962 ± 0.00012 Å at +25 °C without correction for refraction. The here given errors are maximal and calculated

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X-ray investigation ....

as three times the mean square error.

ASSOCIATIONS: Institut khimii AN LatvSSR
(Institute of Chemistry of the AS Latvian SSR)
Fiziko-tekhnicheskiy institut AN SSSR
(Physicotechnical Institute of the AS USSR)

SUBMITTED: October 15, 1962

S/070/62/007/006/004/020
E073/E335

AUTHORS: Ozolin'sh, G.V., Averkiyeva, G.K., Iyevin'sh, A.F. and Goryunova, N.A.

TITLE: X-ray diffraction investigations of some A^3B^3-type compounds with compositions deviating from the stoichiometric

PERIODICAL: Kristallografiya, v. 7, no. 6, 1962, 850 - 853

TEXT: The aim of the investigations was to determine the width of the concentration range in which indium and gallium arsenide, made from 99.98% purity materials, remained homogeneous. The specimens were synthesised in evacuated quartz ampules with the following sequence of operations: slow heating to 650 °C for 3 h; holding at this temperature for 2 hours; slow heating to 100 °C above the fusion temperature of the compound and holding for 30 min; cooling together with the furnace for 12 - 14 hours. Specimens of stoichiometric and non-stoichiometric composition were synthesised. The substance was broken-up into powder prior to taking the X-ray diffraction pictures and annealed in evacuated quartz ampules for 5 hours at 550 °C. Results: within the errors

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X-ray diffraction ....

of determination (0.0001 Å) the lattice spacings did not depend on the excess of one or the other compound with respect to stoichiometry. Without correcting for refraction, the following values were obtained for +25 °C:

InAs: a = 6.05838 ± 0.00005 Å
GaAs: a = 5.65515 ± 0.00010 Å .

There are 2 tables.

ASSOCIATION: Institut khimi AN LatvSSR (Institute of Chemistry of the AS Latvian SSR)
Fiziko-tekhnicheskiy institut AN SSSR (Physico-technical Institute of the AS USSR)

SUBMITTED: December 8, 1961

OZOLIN'SH, P. [Ozolins, P.]; BERGMANE, R.; BLEYYERE, I. [Bleiere, I.]

Interrelationship between the arterial oscillometric index and the temperature of skin. Vestis Latv ak no.4:123-126 '62.

1. Institut eksperimental'noy i klinicheskoy meditsiny AN Latviyskoy SSR.

OZOLIN'SH,P.[Ozolins,P.](Riga)

Reactivity of peripheral blood vessels in the sick with hypertonia. In Russian. Vestis Latv ak no.5:161-167 '60. (KEAI 10:7)

1. Akademiya nauk Latviyskoy SSR, Institut eksperimental'noy meditsiny.
(HYPERTONIA) (BLOOD VESSELS)

OZOLIN'SH, P. P. Cand Biol Sci -- (diss) "Reflex reactions of blood vessels during brief periods of [redacted] chilling of various parts of the body." Riga, 1958. 19 pp with illustrations (Acad Sci Latvian SSR. Inst of Experimental Medicine), 200 copies (KL, 11-58, 115)

LATVIA / Human and Animal Physiology. Blood Circulation. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22133.

Author : Mezhulis, I. P., Ozolinsh, P. P.
Inst : Inst. Experiment Med. AN. Latv SSR.
Title : Nine Channel Apparatus for Registration of Aero-optical Hemodynamic Indices.

Orig Pub: Tp. In-ta eksperim. med. AN Latv. SSSR, 1956, 11, 247-251.

Abstract: The apparatus represents an improved optical polygraph. (See Fisiol. zh. SSSR. 1954, 40,4). Six channels are designed for registration of hemodynamic indices. Three for registration of time, pressure in the sphygmomanometer cuff and stimulation. In each channel the cuff of the

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60

LATVIA / Human and Animal Physiology. Blood Circulation. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22133.

Abstract: sphygmomanometer is used for the registration of plethysmograms or of the pulse volume, a stylus used for the inscription of the sphygmogram, Marey's capsule for the registration of sphygmograms of the carotid artery or the venous pulse. The sphymomonometer cuff is connected by a rubber tube with Marey's capsule, which is provided with a mirror reflecting upon a photkymograph a light beam from a light source. Time is marked off (1.0-0.1 sec.) with the aid of a synchronized motor with a sector obturator, intersecting the light beam of the light source. A differential optical manometer is

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T

Country : USSR
Category: Human and Animal Physiology. Sense Organs.
Cutaneous Sensitivity.

Abs Jour: RZhBiol., N. 19, 1958, 89351

Author : Yanson, L.K.; Ozolin'sh, P.P.
Inst : Institute of Experimental Medicine, Latvian SSR
Title : An Apparatus for Quantitative Determination of Thermic Stimulation.

Orig Pub: Tr. In-ta eksperim. med. AN Latv SSR, 1956, 11, 253-257

Abstract: To effect thermic stimulation, the author proposes a circle of pure Zn, of a specific thermal heat capacity of 0.0925 cal/g to 1°, as a thermode. The instrument is connected with a thermocelement and a galvanometer.

Card : 1/1

CZOLIN'SH, V.

Radio - Apparatus and Supplies

Self-made panel for midget tubes. Radio, No. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, June 1953, 2 Uncl.

OZOLIN'SH, V.A.

Development of the public health system in Soviet Latvia. Klin. med. no.10:43-52 '61. (MIRA 14:10)

1. Ministr zdravookhraneniya Latviyskoy SSR.
(LATVIA--PUBLIC HEALTH)

OZOLINSK, V.

"A home-made panel for sub-miniature tubes."

So. Radio, Vol. 4, p. 17, 1952

L 60226-65 EWT(1)/T/EWA(h) Pz-6/Pab IJP(c) AT
ACCESSION NR: AT5013578 UR/2584/64/000/017/0151/0190 9

AUTHOR: Puritis, T. Ya. (Candidate of technical sciences); Ozolinya, I. E.; Krike, R. Ya.; Freyberg, L. A.

TITLE: Microplasma phenomena in a silicon p-n junction

SOURCE: AN LatSSR. Institut energetiki. Trudy, no. 17, 1964. Poluprovodniki i ikh primeneniye v elektrotekhnike. 3. Upravlyayemyye poluprovodnikovyye vyprvamitel'nyye elementy i ikh primeneniye (Semiconductors and their use in electrical engineering. 3. Controlled semiconductor rectifying elements and their use), 151-190

TOPIC TAGS: microplasma, pn junction, silicon junction

ABSTRACT: The first part of the article presents an analysis of the results of published (mostly USA) theoretical and experimental investigations which dealt with the microplasma phenomena: visible light emission, avalanche-current

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ACCESSION NR: AT5013578

fluctuation; p-n-junction model explaining the microplasma phenomena; microplasma instability and its probabilistic characteristics; equivalent circuit of the p-n junction with microplasma; effect of temperature on microplasma parameters; p-n-junction characteristics dependent on the m[illegible]plasma instability; [illegible] electron emission by microplasma; thermal effect of microplasma; m[illegible]plasma location and the role of dislocations; macroplasma; breakdown points, their classification and characteristics. The second part of the article reports the results of an experimental investigation conducted in the Institute of Power Engineering, AN Latvian SSR. The connection between the appearance of light-emitting points, the current fluctuations, and the current-voltage characteristic was investigated. The A. G. Chynoweth and K. G. McKay circuit (J. Appl. Phys., 30, 195[illegible] [illegible]) was used [illegible] n-Si boron-diffusion p-n junctions [illegible] findings are reported: (1) Each current jump in the current-voltage characteristic is accompanied by a light-emitting point in the p-n junction; however, some points do not cause the current jumps in the characteristic; (2) Jumps have been

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observed which disappear as the voltage (and the microplasma temperature) rises; the corresponding light-emitting point becomes brighter as the voltage rises; (3) Occurrence of local breakdown points, at a reverse voltage much lower than the breakdown voltage, is one of the principal causes of the large reverse current. (4) The breakdown voltage of individual microplasmas increases with temperature within 20—70C, the thermal coefficient of the breakdown voltage increases with the latter; this is in agreement with the avalanche-breakdown theory. The method of current-voltage characteristic investigation by simultaneous application of d-c and saw-tooth voltages can be recommended for quality control of Si devices at manufacturing plants. Orig. art. has: 24 figures, 15 formulas, and 1 table.

ASSOCIATION: Institut energetiki AN Latviyskoy SSR (Institute of Power Engineering, AN Latvian SSR)

SUBMITTED: 00 ENCL: 00 SUB CODE: EC

NO REF SOV: 006 OTHER: 037

Card 3/3

L 60226-65 EWT(1)/T/EWA(h) Pz-6/Peb IJP(c) AT

ACCESSION NR AT[illegible]

AUTHOR: Puritis, T. Ya. (Candidate of technical sciences); Ozolinya, I. E.; Krike, R. Ya.; Freyberg, L. A.

TITLE: Microplasma phenomena in a silicon p-n junction

SOURCE: AN LatSSR. Institut energetiki. Trudy, no. 17, 1964. Poluprovodniki i ikh primeneniye v elektrotekhnike, 3. Upravlyayemyye poluprovodnikovyye vypryamitel'nyye elementy i ikh primeneniye (Semiconductors and their use in electrical engineering, 3. Controlled semiconductor rectifying elements and their use), 151-190

TOPIC TAGS: microplasma, pn junction, silicon junction

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L 60226-65
ACCESSION NR: AT5013578

fluctuation; p-n-junction model explaining the microplasma phenomena; micro-plasma instability and its probabilistic characteristics, equivalent circuit of the p-n junction with microplasma, effect of temperature on microplasma parameters, [illegible]

electron emission by microplasma, thermal effect of microplasma, microplasma **location and the role of dislocations; macroplasma; breakdown points, their classification and characteristics.** The second part of the article reports the **results of an experimental investigation conducted in the** Institute of Power Engineering, AN Latvian SSR. The connection between the **appearance of light-emitting points**, the current fluctuations, and the current-voltage characteristic was investigated. The A. G. Chynoweth and K. G. McKay circuit (J. Appl. Phys., 30, 1959, 11, 1811-1813) was used in the experiments; n-Si boron-diffusion p-n junctions (resistivity 0.3 ohm-cm) were tested. These findings are reported: (1) Each current jump in the current-voltage characteristic is accompanied by a light-emitting point in the p-n junction; however, some points **do not cause the current jumps in the characteristic;** (2) jumps have been

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ACCESSION NR: AT5013578

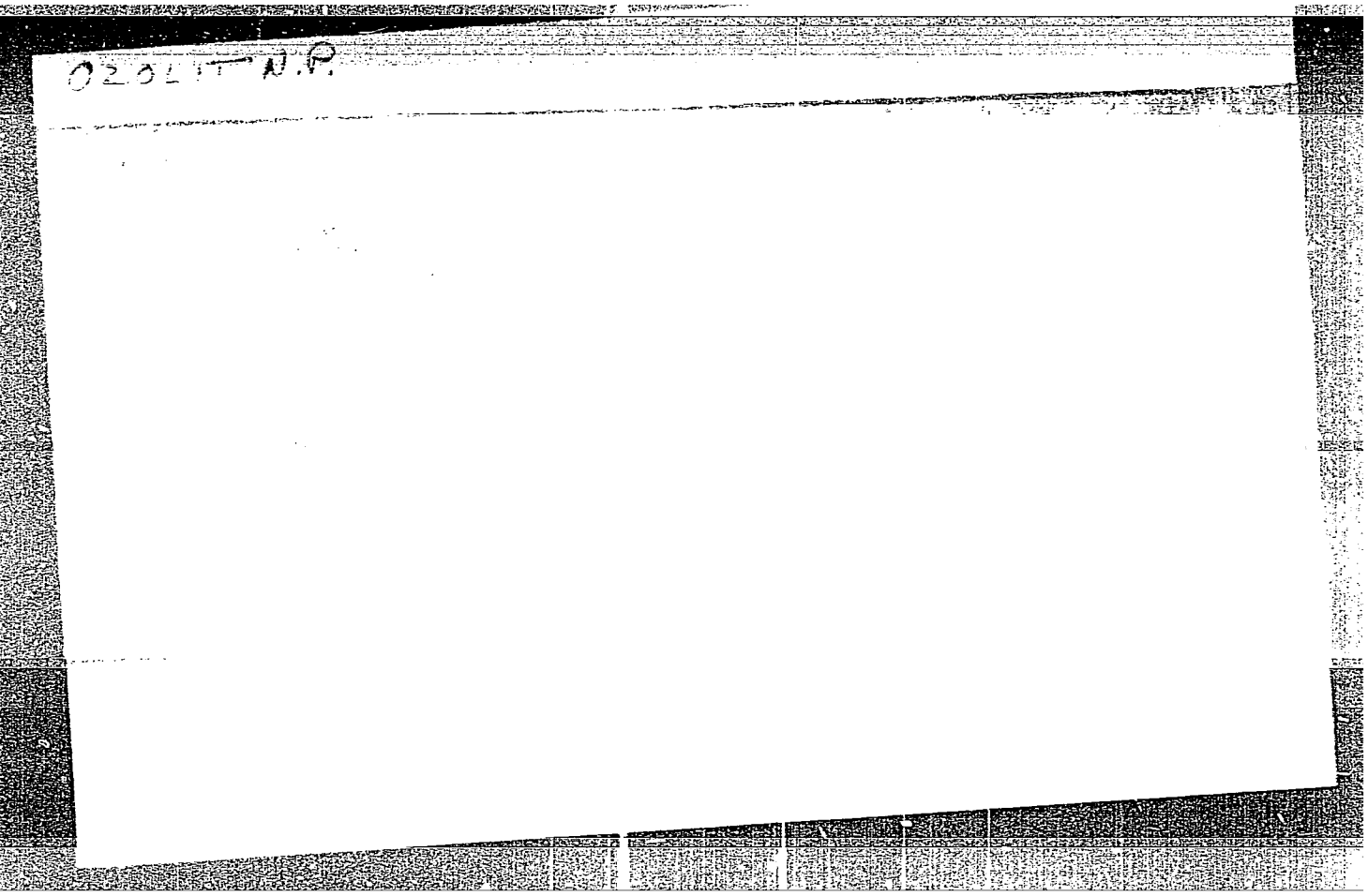
observed which disappear as the voltage (and the microplasma temperature) rises; the corresponding light-emitting point becomes brighter as the voltage rises; (3) Occurrence of local breakdown points at a reverse voltage much lower than the breakdown voltage, is one of the principal causes of the large reverse current; (4) The breakdown voltage of individual microplasmas increases with temperature within 20—70C; the thermal coefficient of the breakdown voltage increases with the latter; this is in agreement with the avalanche-breakdown theory. (5) The method of current-voltage characteristic investigation by simultaneous application of d-c and saw-tooth voltages can be recommended for quality control of S. devices at manufacturing plants. Orig. art. has: 24 figures, 15 formulas and 1 table.

ASSOCIATION: Institut energetiki AN Latviyskoy SSR (Institute of Power Engineering, AN Latvian SSR)

SUBMITTED: 00 ENCL: 00 SUB CODE: EC

NO REF SOV: 006 OTHER: 037

Card 3/3



GORDON, G.M.; [illegible], N.P.; PETROV, B.V.; SASIN, V.I.

Investigating and introducing filter fabrics made of heat-resistant synthetic fibers. Sbor. nauch. trud. Giprovuzneta no.20:82-98 '63. (MIRA 17:12)

OZOL-KALNIN, G.[Ozol-Kalnins, G.]; PURIN, B.[Purins, B.]

Effect of alternating current on electrodeposition of nickel. Report No. 1: Electrodeposition of nickel from sulfate electrolytes with additions of some organic and inorganic compounds superposing alternating current on direct current. Izv. AN Latv. SSR no.4:73-76 '61. (MIRA 16:1)

1. Institut khimii AN Latviyskoy SSR.

(Nickel plating)

PURIN, B.[Purins, B.](Riga); TSERA, V.[Cera, V.](Riga); OZOL-KALNIN, G. [Ozols-Kalnins, G.](Riga)

Electrode potentials of nickel, iron, and copper in the solutions of nickel electrolyte in the presence of some additions. Vestis Latv ak no.12:91-96 '60. (KEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut khimii.

(Electrodes) (Nickel) (Iron) (Copper)
(Electrolytes)

OZOL-KALNIN, G.[Ozol-Kalnins, G.](Riga); PURIN, B.[Purins, B.](Riga)

Electrolytic deposition of nickel from sulfate electrolytes with addition of certain organic and inorganic compounds. Vestis Latv ak no.1:77-86 '61. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut khimii.

(Electrochemistry) (Nickel) (Sulfates) (Electrolytes)

OZOL-KALNIN, G.[Ozol-Kalnins, G.](Riga); PURIN, B.[Purins, B.](Riga)

Effect of alternating current on the electrolytic deposition of nickel. Report I. Electrolytic deposition of nickel sulfate electrolytes with additions of certain organic and inorganic compounds and with superposition of alternating current on direct current.(To be contd) Vestis Latv ak no.4:73-76 '61. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut khimii.

(Electric currents) (Nickel) (Nickel sulfates)

25000

S/197/61/000/006/006/007
B104/B201

1.1800 also 1087

AUTHORS: Ozol-Kalnin, G., Purin, B.

TITLE: Effect of alternating current upon nickel electrodeposition. Communication 3. Nickel electrodeposition on nickel backings by superposition of an alternating current over the direct current.

PERIODICAL: Akademiya nauk Latviyskoy SSR, Izvestiya, no. 6(167), 1961, 51 - 56

TEXT: Data are given on the effect of the pre-treatment of nickel surfaces upon the binding of electrodeposited nickel layers with the nickel backing. Nickel was electrodeposited on nickeled copper plates which were polished with chromium pastes, with an alternating current superposed on the direct current. The binding of the nickel layer with the nickel backing was tested by bending and filing tests. The nickel layers were 30 - 50 μ thick. The experimental arrangement had been described by the authors in a previous paper. Three electrolytes were used for the experiments (see composition attached). The nickel backings

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were degreased electrolytically by various electrolytes. In the oscillograms shown in Fig. 1 the effect of the different pre-treatments upon the course of the polarization current when switching on is clearly recognizable. In chemical (Curve 1, Fig. 1a) and electrolytic degreasing with direct current (Curve 2, Fig. 1a) and with alternating current (Curve 3, Fig. 1a), the cathode potential displays a strongly negative value. A sharp drop of the negative potential is found when OP - 10 (OP - 10) is added (Curve 4, Fig. 1a). This strong passivation of the nickel surface prevents a sufficiently strong binding between nickel layer and nickel backing even when using alternating current. If, after electrochemical degreasing (without OP - 10 admixture), the nickel backing is etched for five minutes in an HCl solution, the potential will be lowest at the moment of switching on the current (Curve 1, Fig. 1b). In this case, a good binding between nickel backing and nickel layer will be established by electroplating with superposed alternating current. When electroplating with direct current alone, a good binding is obtained up to layer thicknesses of 25 - 30 microns with electrolytes nos. 1 and 2. If the specimens are etched, the results will be worse (Curves 2 and 3, Fig. 1b). Likewise, an electrolytic degreasing with

Effect of alternating current ...

period, when applying an alternating field, to be a very important factor. The binding of a nickel layer on a nickel backing can thus be increased by activation of the nickel surface and by a diminution of the voltage by nickel depositions. M. I. Morkhov, K. N. Kharlamova, and A. T. Vagramyan are mentioned. There are 1 figure, 1 table, and 10 references: 6 Soviet-bloc and 4 non-Soviet-bloc. The reference to English-language publications reads as follows: W. W. Sellers et al., Amer. Electroplaters Soc., 1957, 36, 157.

ASSOCIATION: Institut khimii AN Latv. SSR
(Institute of Chemistry, AS Latviyskaya SSR)

SUBMITTED: July 21, 1960

Card 4/6

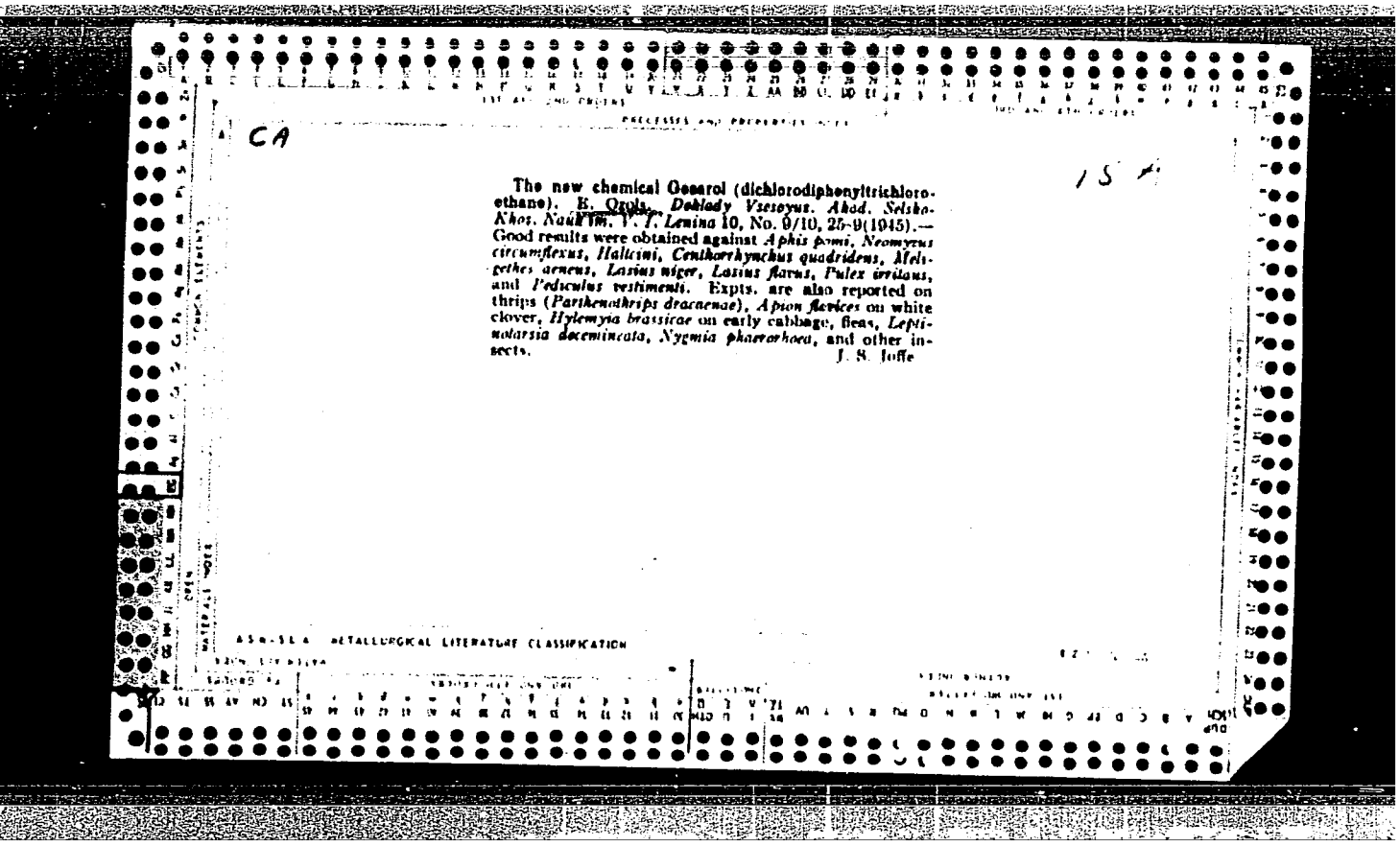
CA

15 A

The new chemical Gesarol (dichlorodiphenyltrichloroethane). R. Orels. *Doklady Vsesoyuz. Akad. Sel'sko-Khoz. Nauk im. V. I. Lenina* 10, No. 9/10, 25-9(1945).—Good results were obtained against *Aphis pomi*, *Neomyzus circumflexus*, *Haltica*, *Ceuthorrhynchus quadridens*, *Meligethes aeneus*, *Lasius niger*, *Lasius flavus*, *Pulex irritans*, and *Pediculus vestimenti*. Expts. are also reported on thrips (*Parthenothrips dracaenae*), *Aphis fabae* on white clover, *Hylemyia brassicae* on early cabbage, lime, *Leptinotarsa decemlineata*, *Agrotis* [illegible], and other insects.

I. S. Ioffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

The new chemical Gesarol (dichlorodiphenyltrichloroethane). E. Orola. *Doklady Vsesoyus. Akad. Selskokhoz. Nauk im. V. I. Lenina* 10, No. 9/10, 25-9(1945).—Good results were obtained against *Aphis pomi*, *Neomyzus circumflexus*, *Halticini*, *Centhorrhynchus quadridens*, *Meligethes aeneus*, *Lasius niger*, *Lasius flavus*, *Pulex irritans*, and *Pediculus vestimenti*. Expts. are also reported on thrips (*Parthenothrips dracaenae*), *Apion flavipes* on white clover, *Hylemyia brassicae* on early cabbage, fleas, *Leptinotarsia decemlineata*, *Nygmia phaeorrhoea*, and other insects.

J. S. Joffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

OZOLS, A.

Utilization of vegetable chromogens as indicators for the determination of digestibility. Izv.AN Latv.SSR no.7:85-90 '63. (MIRA 17:4)

OZOLS, A.; MILLER, A.

Ionizing radiation in biology and agriculture. Izv.AN Latv.SSR no.12:118-119 '63. (MIRA 17:3)

OZOLS, A., akademik, otv. red.; PETERSONS, E., kand. sel'khoz. nauk, red.; ROMANOVSKA, O., kand. sel'khoz. nauk, red.; SPOLITIS, A., kand. sel'khoz. nauk, red.; ZUMBERGA, M., red.; PILADZE, Z., tekhn. red.

[Possibilities of improving the winter hardiness and frost resistance of plants] Augu ziemcietiba, aikstumizturiba un to kapinasanas iespejas. Riga, Latvijas PSR Zinatnu akad. izdevniecība, 1962. 186 p. (MIRA 16:5)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija. Biologijas instituts. 2. Akademiya nauk Latviyskoy SSSR (for Ozols).

(Plants—Frost resistance)

BAMBERGS, K., akademik; red.; OZOLS, A., akademik, red.; EIHE, E., red.; CINOVSKIKH, J., doktor biol. nauk, red.; VANAGS, J., red.; SKLENNINS, C., red.; LEMBERGA, A., tekhn. red.

[Increasing the yield of row and pulse crops] Rusinamaugu un paksaugu razibas kapinasana. Riga, Latvijas PSR Zinatnu akad. izdevnieciba. Vol.6. 1963. 239 p. (MIRA 16:5)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu akademija. Biologijas un medicinas zinatnu nodala. 2. Latvijas Padomju Socialistiskas Republikas Zinatnu akademija (for Bambergs, Ozols). 3. Latvijas Padomju Socialistiskas Republikas Zinatnu akademijas korespondetajloceklis (for Eihe). 4. Vissavienibas Lenina lauksaimniecibas akademijas korespondetajloceklis (for Vanags). (Latvia--Field crops)

OZOLS, Art

"Latvian dictionaries up to 1900" by D. Zemzare, Reviewed by A. Ozols [in Latvian]. Vestis Latv ak no.11:151-154

OZOLS, A.

Pastures on the Rainis Collective Farm.

P. 6. (PADOMJU LATVIJAS KOLCHOZNIEKS) (Riga, Latvia) Vol 1, No. 12, Dec. 1957

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

OZOLS, A.

Organization of the botanical garden of the Academy of Sciences of the Latvian S.S.R. Biul.Glav.bot.sada no.32:3-6 '58. (MIRA 12:5)

1. AN Latviyskoy SSR.
(Salaspils--Botanical gardens)

OZOLS, A.

Introduction and acclimatization of nut trees in Latvia. p. 71.

BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNOMU KHOZIAISTVU. (Latvijas PSR Zinatnu akademija. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

OZOLS, A. ; ZUKOVSKA, Z.

Forms and sorts of hazel trees for introduction in Latvia. p. 67.

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