DELEKTORSKIY, N.V.; NAUMENKO, M.F.

Let us meet the 22d Congress of the CPSU in a worthy manner. Med. prom. 15 no.9:3-8 S '61. (MIRA 14:9)

DELEKTORBEITY, N.V.

Regults of the use of glass pipelines at the "Akrikhin" plant.

Med.prom.17.no.4:56-59 Ap. 6. (MIRA 16:7)

(PHPE, GLASS) (DRUG INDUSTRY—EQUIPMENT AND SUPPLIES)

NAUMENKO, M. F.; DELEKTORSKIY, N. V.; FILIPPOV, G. G.; AVERBAKH, K. I.

Information. Khim prom no. 3:234-237 Mr '64. (MIRA 17:5)

OVCHIMNIKOV, N.M., prof.; DELEKTORSKIY, V.V.

Ultrathin sections of Treponema pallidum under the electron microscope. Vest. derm. i ven. no.1:50-53 '65.

1. Mikrobiologicheskiy otdel (zav. - prof. N.M. Ovchinníkov) Plantrel'nogo nauchno-isoledovatel'skogo kozhno-venerologicheaktgo institute (dir. kand. red. nauk N.M. Tursnov) Ministerstva zoravcokhraneniya SSSR, Moskva.

SHKVARUK, Nikolay Matveyevich[Shkvaruk, M.M.], doktor sel\*khoz. nauk, prof.; DELEMENCHIK, Nikolay Il'ich[Lelemenchuk, M.I.], kand. sel'khoz. nauk, dots.; BELOUSOVA, C.F., red.

[Soil science] Hruntoznavstvo. Kyiv, Urozhai, 1965. 387 p.
(MIRA 19:1)
Lelemenchuk).

DELENKO, A. (Zaporozh'ye)

Secret of success. Nauka i shyttia 12 no.9:10-11 S '62.

(MIRA 16:1)

(Liporosh'ye Province—Steel industry)

L 24212-65 SWT(m)/EPF(b)/EPF(n)-2/EPR Pr.4/Ps-4/Pu-4 1 6 S/0089/64/017/006/0439/0448 ACCESSION NR. AP5001166 AUTHOR: Polushkin, K. K.; Yemel'yanov, I. Ya.; Delens, P. A.; Zvonov, N. V. Aleksenko, Yu. I.; Grozdov, I. I.; Kuznetsov, S. P.; Strokhi, A. P.; Tokarev, Yu. I.; Lavrovskiy, K. P. Brodskiy, A. M.; Belov, A. R.; Borisyuk, Ye. V.; Gryazev, V. M.; Tetyukov, V. D.; Popov, D. M.; Koryakin, Yu. I.; Filippov, A. G.; Fatrochult, K. V.; Khoroshavin, V. D.; Savinov, N. P.; Meshcheryakov M. N.; Pushkarev. V. P.; Suroyegin. V. A.; Cavrilov. P. A.; Podlazov, L. N. Rogozhku, I. N. TITLE: Atomic electric power installation "Arbus" with organic coolant and moderator SOURCE: Atominiya energiya, v. 17, 110. 6, 1984, 439-448 TOPIC TAGS small nuclear reactor, organic coolant, organic moderator, reactor economy, nuclear reactor ABSTRACT: The paper is a summary of the SISR # 307 report at the Third Inter-

L 24212-55

ACCESSION NR: AP5001265

national Conference on Peaceful Uses of Atomic Energy, 1964. It describes an installation of a reactor in which organic liquid serves as the coolant, and as the moderator. The low-power reactors of about 5 Mw are expected to be economical in the remote regions where the usual energy sources are not available. A regeneration system is described for the coolant which removes the products of radiolysis. Orig. and has: 7 figures

ASSOCIATION: None

SUBMITTED: CO

ENCL: 00

SUE CODE: NP

NR REF SOV: 000

OTHER: 000

Cord 2/2

DELEON. Asher.

Common problems and common ways of solving them. Vsem.prof.dvizh.
no.12:43-45 D 156.
(Trade unions)

26(1)

YUG/1-59-1-4/67

AUTHOR:

Deleon, Eli, Engineer and Assistant (Beograd)

TITLE:

Some Trends in the Development of Aircraft Propulsion

Units

PERIODICAL:

Tehnika, 1959, Nr 1, pp 14-20 (YUG)

ABSTRACT:

The article deals with the supersonic speed of modern aircraft, the types of aircraft engine, i.e. piston engine, turboprop engine, jet engine with after-burner, ram-jet engine and rocket engine. A description of the main types of propulsion units, i.e. turbo-jet and ram-jet engines is given. There are 14 graphs, 2 tables, 2 diagrams and 3 English references.

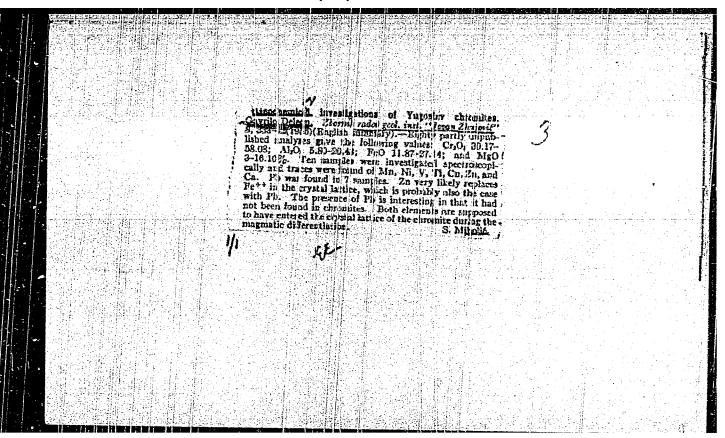
ASSOCIATION: Mašinski fakultet Univerziteta u Beograd (Mechanical

Engineering Dept. of Beograd University).

SUPMITTED:

October 10, 1958

Card 1/1



#### DELEON, Gavrilo

Structural characteristics of the antimony-arsenic ore of the Lojane Mines. Glas Prir muz A no.11:109-120 59.

(Yugoslavia-Antimony) (Yugoslavia-Arsenic)

VOKRACHKO, Yuriy Georgiyevich; DELERZON, Boris Samuilovich; IL'IN, Andrey Aleksandrovich; SALIVON, Stepan Alekseyevich; FAL'KOVICH, Boris Moiseyevich; FEDOROV, Yuriy Viktorovich; CHISTYAKOV, Ivan Pavlovich; OKUNEV, Yu.K., podpolkovnik, red.; SOKOLOVA, G.F., tekhn. red.

[Textbook for the second-class military driver] Uchetnik voennogo voditelia vtorogo klassa. [By] IU.G.Vokrachko i dr. Moskva, Vcenizdat, 1963. 376 p. (MIRA 16:6) (Automobile drivers)

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L 46120-66 EWT(1)/EEC(k)-2/T IJP(c) SOURCE CODE: UR/0251/66/042/003/0547/0550
SOURCE CODE: UR/02/07/07/07/
ACC NR: AP6024547
C. A. Delerzon, N. M.; Dzhaparidze, 16. d.,
AUTHOR: Gogava, L. A.; Nakashidze, G. A.; Delerzon, N. M.; Dzhaparidze, Ye. G.;
Kardiau Tonvary Akademiya nauk
Sistences Georgian SSR, Institute of Cybernetics (Akademy
ORG: Academy of Sciences, Georgian SSR, Institute of Cybernetics (Akademiya nauk
towning penepen type transistor switch
TITLE: Photoelectric characteristics of a two-terminal p-n-p-n type transistor switch
TILLE: Thousands
SOURCE: AN GruzSSR. Soobshcheniya, v. 42, no. 3, 1966, 547-550
SOURCE: AN Gruzsait.
transistor, photosensitivity, voit ampere
TOPIC TAGS: electronic switch, germandia gap gath
TOPIC TAGS: electronic switch, germanium transistor, photosensitivity, volt ampere characteristic, an junction, photosectnic property.
ABSTRACT: The article deals with the method of fabrication and photocleosters.  ABSTRACT: The article deals with the method of fabrication and photocleosters.  The starting material was a p-type of germanium-base p-n-p-n type transistor switches. The starting material was a p-type of germanium-base p-n-p-n type transistor switches. The starting material was a p-type of germanium-base p-n-p-n type transistor switches. The starting material was a p-type of germanium-base p-n-p-n type transistor switches. The starting material was a p-type of germanium-base p-n-p-n type transistor switches. The starting material was a p-type of germanium-base p-n-p-n type transistor switches.
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of germanium-base p-n-p-n type transistor switches. The starting inactivity of germanium-base p-n-p-n type transistor switches. The starting inactivity of germanium-base p-n-p-n type transistor switches. The starting inactivity of germanium-base p-n-p-n type transistor switches. The starting inactivity of p-n junction was fer with a resistivity of 5 ohms cm and dimensions of 1.3xl.3x0.08 mm. Two p-n junction was fer with a resistivity of 5 ohms cm and dimensions of 1.3xl.3x0.08 mm. Two p-n junction was fer with a resistivity of 5 ohms cm and dimensions of 1.3xl.3x0.08 mm.
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were obtained by diffusing antimony into both surfaces of the original water was accommodated and the diffused layers. Ohmic contact on the opposite side was accommodately indiam into one of the diffused layers. Ohmic contact on the opposite side was accommodately indiam into one of the diffused layers. Ohmic contact on the opposite side was accommodately indiam into one of the diffused layers. Ohmic contact on the opposite side was accommodately indiam into one of the diffused layers.
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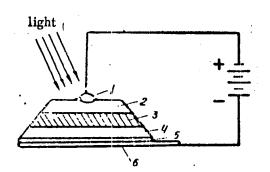
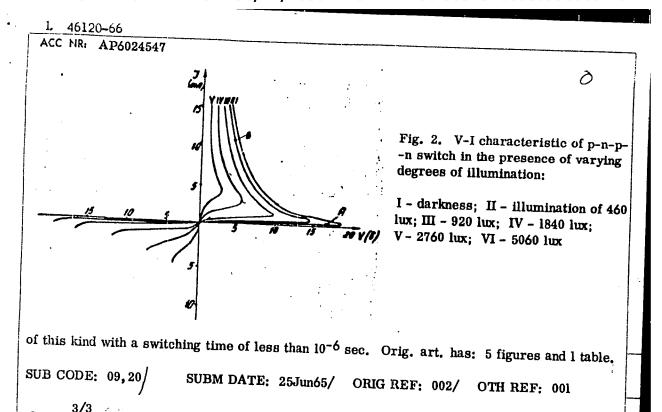


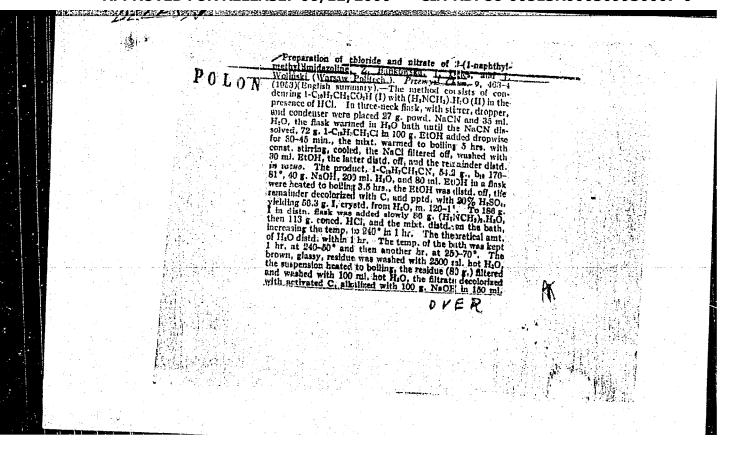
Fig. 1. Structure of two-terminal p-n-p-n type switch:

1 - rectifying nickel contact;
2, 4 - diffused
n-layers;
3 - original p-type germanium;
5 - ohmic contact (tin);
6 - nickel holder

voltage the device is in the "off" state (point A on V-I characteristic in Fig. 2) and displays a high resistance of the order of several megohms. On illumination the switch changes from "off" state to "on" state (point B in Fig. 2) considering that the fixed bias voltage is then sufficient for breakdown of the center p-n junction. In this position the resistance of the device is of the order of several ohms. An investigation of V-I characteristics in the presence of darkness and various degrees of illumination conclusively proved that switching voltage decreases with increasing illumination. The minimum illumination required to switch the device is of the order of 100-150 lux. Further improvements in the design and fabrication of transistor switches should make it possible to develop more photosensitive and stable devices

Card 2/3





Z. BANKOWSKA

H<sub>2</sub>O, To below oil sepd., and the seln. extd. several times with 1(1)-nil, portions of C.H<sub>2</sub>. The exts. were added to the yellow oil, the combined soln. dried with KOH, then at 90°, and crystd. giving 108.6 g.2-(1-naphthylmethyl)midazoline (III), m., 116.20°. To 15 g. III dissolved in 20 ml. EtOH 7.7 g. concil. HCl was added, the soln. heated several min. 2/2 to boliling, speciological with C, the resulting III.HCl filtered it is pild. from the soln. with Eto, yielding almost 100% HCl salt, crystg. from anhyd. EtOH, m. 253-5° (decompn.), sol. in BtOH and H<sub>2</sub>O. Similarly, III.HNO, in. 152° (decompn.) was obtained by mixing 4.2 g. III in 2 ml. H<sub>2</sub>O and 2.2 g. concil. HNO, in 4 ml. EtOH.

Gene A. Wozuy

DELES JADWIGA

COUNTRY Poland

CATEGORY : Organic Chemistry -- Theoretical organic chemistry.

ABS. JOUR. : RZKhim., No. 22 1959, No.

78497

AUTHOR

: Deles, J. and Polaczkowa, W.

INST.

: Not given

TIPLE

: On the Mechanism of the Reaction of the Methyl Ester of p-Bromocinnamic Acid with Hydrazine

ORIG. PUB.: Roczniki Chem, 32, No 6, 1243-1255 (1958)

ABSTRACT

: The reaction of N2 H4 . H2 O (I) with 4-BrC6 H6 CH=CHCOO. CH, (II), depending on the conditions used, gives 4-BrC, H, CH=CHCOMHNH, (III), 4-BrC, H, CH(NHNH, )CH, -CONENH, (IV), 5-(p-bromophenyl)-pyrazolidone-3 (V), and (4-BrC, H, CHaCHCONH, ) [sie] (VI). Apparently V is formed from IV or from 4-BrC6 H, CH(NHNH2)CH2-COOCH; (VII) which has not been isolated and the hydrazinolysis of which proceeds markedly more readily than that of II. Depending on the concentration of I, the intermediate reacts either

CARD: 1/10 Politechnika Warsaw

COUNTRY : Poland G-1 CATEGORY ABS. JOUR. : RZKhim., No. 22 1959, No. 78497 AUTHOR : IMST. TIPLE ORIG. PUB. : ABSTRACT : with I or by intramolecular hydrazinolysis with the formation of V. The cyclization of IV proceeds at a markedly slower rate than that of VII. The presence of water lowers the rate of hydrazinolysis and inhibits the intranolecular reaction to a greater extent than the intermolecular reaction. 4-BrC6 H, CH=CHCOOH (VIII), mp 264-265°, is prepared by the reaction of 4-BrC6 H4 CHO with CH<sub>2</sub> (COOH), in C, H, N in the presence of a small amount of piperidine, yield 64.8%. The methyla-CARD: 2/10 117

COUNTRY : Poland

CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No.

78497

AFTHOR

21 July 20

ORIG. PUB. :

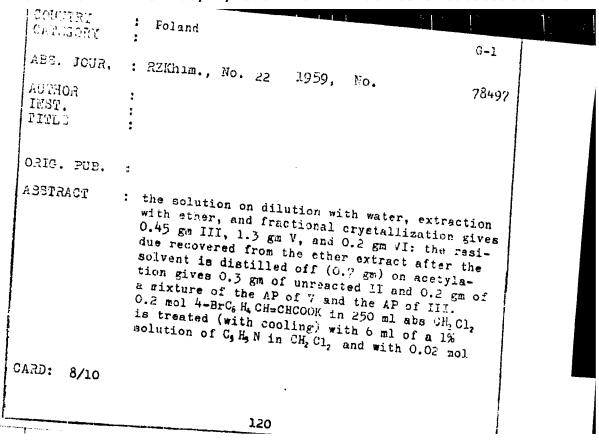
ABSTRACT

: tion of VIII with CH2 N2 or CH3 OH gives II, mp 87-89°. About 0.025 mol II and 0.075 mol of 100% I in 10 ml GE, OH are refluxed for 15 min. evaporated over 12 SO, to dryness, and the residue is rinsed with ether; the yield of IV is 63.30, mp 81.5-15° (decomp; from alcohol), diacetyl acrivative (DAP) mp 234-235° (from equeous alc). The combined ether extract yields 0.2 gm III, mp 163-166.50. The same reaction with 2 hr reflux gives 3 gms of crude product which on

Ca20: 3/10

COUNTRY Poland CATEGORY ABS. JOUR. : AZKhim., No. 22 1959, No. 78497 AUTHOR FFM. TITLE ORIG. PUB. : ABSTRACT : and 0.4 gm of an apparent mixture of IV and V. 0.05 mol II in 50 ml CH, OE is treated with 0.15 mol of 20% I, the colution is allowed to stand for 4 days at about 20°, after which the filtrate is gradually evaporated in a dessicator, the precipitate being removed from time to time; the yield of III is 40.2%, mp 157.5-169° (from alc); 1.7% of impure VI and 26.3% of IV, mp 79-82° (decomp) are also obtained. About O.Cl mol III in 50 ml CH, COOH is cooled to 5°, 0.01 mol JaPD: 5/10

COUNTRY Poland CATEGORY ABS. JOUR. : RZKhim., No. 22 1959, No. 78497 AUTHOR INTE. TITLE ORIG. PUB. : ABSTRACT giving 35% of unreacted II, 18.8% III, and 19% IV; the alcoholic mother liquor on evaporation of the solvent and scatylation of the residue gives 0.4 gm of the AP of V, corresponding to a yield of V of 5.8%. About 25 mmol II and 75 mmol I in 50 ml Ch, Oh are refluxed for 15 min: fractional crystallization gives 15% unreacted II, 26.6% III, and 28.3% V. About 25 mmol II and 25 mmol I in 7 ml CH, OH are refluxed for 15 min, leaving a residue of 2.5 gms of unreacted II; CARD: 7/10



DELES, Jadwiga; POLACZKOWA, Wanda

On the reaction of hydrazine with ring substituted derivatives of methyl cinnamate. Rocz chemii 35 no.4:843-852 61.

1. Department of Organic Chemistry, Institute of Technology, Warsaw.

DELES, Jadwiga; POLACZKOWA, Wanda

On the mechanism of the reaction of hydrazine with cinnamic acids esters. II. Rocz chemii 35 no.4:853-860 [61].

1. Department of Organic Chemistry, Institute of Technology, Warsaw.

# DELES, Jadwiga

The effect of ring substituents on the reaction rates of substituted methyl cinnamates with hydrasine and on the cyclization tendency of A-hydrasine acids hydrasides to pyrodolizones. Rocz chemii 35 no.4:861-867

1. Department of Organic Chemistry, Institute of Technology, Warsaw.

DELESEGA, I.

DELESEGA, I. From my experience with the excavator. p. 3.

Yol. 7 no 289, July 1955 CONSTRUCTORUL Bucuresti, Rumania

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

DELESHKOV, G.G.

Technological progress is the most important condition for increasing labor productivity in the shipbuilding industry. Trudy LKI no.32:5-12 '60. (MIRA 15:2)

l. Kafedra politicheskoy ekonomii Leningradskogo korablestroitelinogo

(Shipbuilding--Technological innovations)

In the forests of Polesye. Posh. delo 4 no.5:22 My 53.

(Polesye-Guerillas) (MIRA 11:5)

DELETS, A.; ANTOSHKIN, B. (Grodno); ORIOV, Ye. (Bryansk)

Readers' letters. Posh. delo 5 no.10:29 0 '59.

(MIRA 13:2)

1.Rayonnyy posharnyy inspektor, Brestskaya oblast' (for Delets).

(Fire prevention)

DELEUR, G.A[Deleur, H.]

Attract a broad selection of local active participants to plan rural districts. Sil'. bud.ll no.12:8-10 D '61. (MIRA 15:2)

DELEUR, G. A.

DELEUR, G. A.: "Pasic outlines of the planning and construction of rural villages in the southern part of the Ukrainian SSR." Academy of Architecture Ukrainian SSR. Inst of the Construction of Cities. Kiev, 1956. (Dissertation for the Degree of Candidate in Architectural Sciences)

Source: Knizhnaya letopis' No. 28 1956 Moscow

POKROVSKAYA, Yelena Vladimirovna; DELEUR, G.A., redaktor; LYUBOVSKIY, A., redaktor; ZELEUKOVA, Ye., teknaicheskiy redaktor

[Planning, building and laying out machine-tractor stations]
Planirovka, zastroika i blagoustroistvo mashinno-traktornykh stantsii.
Pod obshchei red. G.A.Deleura. Kiev. Gos. izd-vo lit-ry po stroit. i
arkhitekture USSR, 1956. 284 p.
(Machine-tractor stations)

(MLRA 9:8)

DELEUR, Ye.N., dotsent; SUIHOV, S.A., dotsent

Using a cathode ray oscillograph for investigating the processes of breaking in machine parts. Nauch.trudy OIIMF no.16:95-102 '58.

(Cathode ray oscillograph) (Mechanical wear)

LELEV, D.

DELEV, D. Standardization and giving account of expended materials and reserve parts. p. 46. Vol. 8, no. 6, 1956. TRANSPORTNO DELO. Sofiia, Bulgaria

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

DELEV. N.

New urinary bladder from the sigmoid colon. Khirurgiia, Sofia 11 no.3: 279-281 Mar 58.

1. Iz Khirurgichnoto otdelenie na Okrushnata bolnitsa D-r Racho Angelov--Sofiia.

(BLADDER, surg.

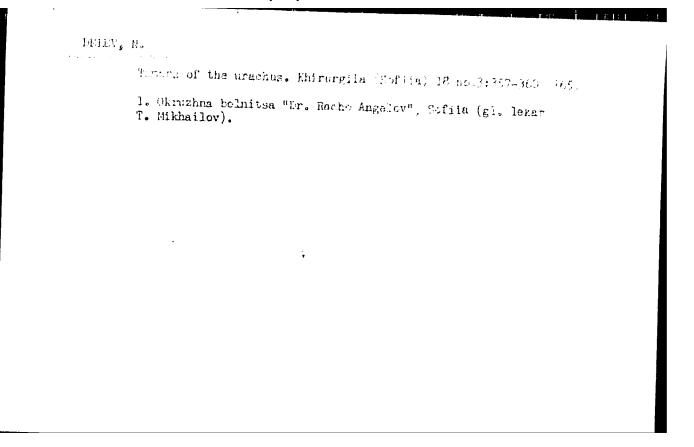
substitute bladder with ureteral implant into sigmoid (Bul))

DELEV. N.

Formation of a new urinary bladder from the sigmoid. Thirurgiia. Sofia 11 no.5-6:544-546 1958.

1. Iz Khirurgichnoto otdelenie na Okruzhnata bolnitsa Dr Racho Angelov --Sofiia.

(BIADDER, surgery, sigmoidocystoplasty (Bul))
(COION, surgery, same)



DELEVI, L.B., inzhener.

Exposure redecion

Catching lacquer dust by means of cloth blinds. Der,i lesokhim. prom.3 no.1:25-26 Ja '54. (MLRA 7:2)

1. Dnepropetrovskiy mebelinyy kombinat im. Khalturina.
(Lacquer and lacquering)

#### DELEVI, L.B.

How we increased the productivity of the paint spraying shop.

Der. 1 lesokhim.prom. 3 no.7:24 J1 154. (MIRA 7:7)

1. Deepropetrovkiy mebel'nyy kombinat imeni Khalturina. (Spray painting)

DELEVI, L.B., inzhener.

Apparatus for cutting longitudinal grooves in columns. Der. i lusekhim. prom.3 no.11:22 H 554. (MIRA 7:12)

 Dnepropetrovskiy mebel'nyy kombinat im. Khalturina. (Woodwork)

DELEVI, V.G.; SHUL'MAN, P.A.

Effect of diamond grinding on the surface layers of hardened R18 steel. Metalloved. i term. obr. met. no.4:49-50 Ap '65. (MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut sverkhtverdykh materialov.

DELEVSKIY, P. S.

"A Stand for Intravenous Narcosis," Khirurgiya, No 8, 1949.

2nd Surgical Clinic, Ukr Inst. Advanced Training for Physicians

DELEVSKIY, P.S., dotsent

Fifth years in the distinguished role of surgeon; life and activities of A.I.Meshchaninov. Vest. khir. 75 no.1:90-91 Ja-F '55. (MLRA 8:4) (MESHCHANINOV, ALEKSANDR IVNAOVICH, 1879...)

MESHCHANINOV, A.I., prof. (Khar'kov, ul. Sverdlova, d.152, kv.1);

DELEVSKIY, P.S., dots.

Honparasitic cysts of the liver. Vest.khir. 81 no.12:80-81

D'58.

(NIRA 12:2)

1. Is khirurgicheskoy kliniki (zev. - prof. A.I. Meshchaninov)

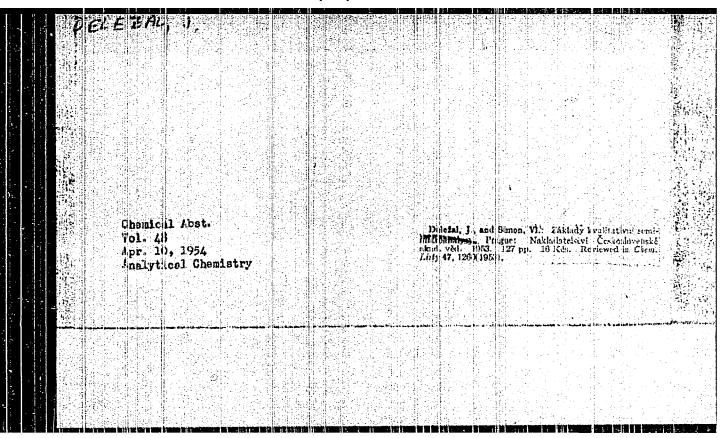
9-y Khar'kovskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach - L.S. Sycheva).

(LIVER, cysts
nonparasitic (Rus))

DELEVSKIY, Yu.P., kand, med, nauk; SHCHERBAK, G.A.

Results of the use of plastic packages in tissue preservation. Ortop., travum. i protes. 26 no.8:62-65 Ag 165. (MIRA 18:9)

1. Iz laboratorii konservirovaniya tkaney (rukovoditel'... Yu.P. Delevakiy) Khar'kovakogo instituta protezirovaniya, ortopedii i travmatologii imeni M.E. Sitenko (dir.- chlenkorrespondant AMN SSSR prof. N.D. Novachenko). Adres avtorova Khar'kov 24, Pushkinskaya ulitsa, dom 80, Institut protezirovaniya, ortopedii i travmatologii.



DELMZEL, B.; RAKUSAN, B.; URBANEK, G.; VYSTRCIL, A.; ZICHA, K.; ZICHA, O.

Floristen as a drug in the treatment of inflammation. Cesk. farm. 3 no.7:247-248 Sept 54.

1. Z Vyskumneho ustavu lecivych rostlin v Prase. (PLANTS,

Hypericum perforatum extract, ther. of inflamm.)
(INFLAMMATION, therapy,
Hypericum perforatum extract)

DELFIN, Boris, inz.

Development and problems of the construction industry in the Sisak District. Gradevinar 16 no. 1:23-28 Ja 164.

TELPIN, S.

TELFIN,S. Prospects for development of the chemical industry in Croatia.

Vol. 1, No. 3, March 1955 MEMIJAU INDUSTRAJI

SO: Monthly List of East European Accessions, (EEAL), IC, Vol.5, No.3 Narch, 1956

DELFIN,S.

DEIFIN,S. Meetingoof the Union of Chemists and Technologists of Yugoslavia.

Vol. 4, No. 10, Oct. 1955

KEMIJA U INDUSTRIJI

SO: Monthly list of East European Accessions, (EEAL) LC, Vol. 5, No. 3

AUTHOR: Delfin, S.

Delfin, Slava, Engineer

YUG/2-59-1-16/22

TITLE:

Production of Artificial Fertilizers in the Federal People's Republic of Yugoslavia (Proizvodnja umjetnih gnojiva u FNRJ)

PERIODICAL:

Kemija u industriji, 1959, Nr 1, pp 21 - 26

ABSTRACT:

The author emphasizes the need for more extensive use of fertilizers and increase in their production and gives a description of the chemical composition, import and the present and planned production of various fertilizers. 1. Nitrate fertilizers: a) calcium cyanamide is produced by the plant in Dugi Rat and the Tvornica dusika (Nitrogen Plant) in Ruse. Their total production capacity is 44,000 tons, but their actual production is only 50% of their capacity. With the construction of the new plant in Jegunovci this capacity will be increased by 33,000 tons, and should meet the requirements for this kind of fertilizer; b) ammonium sulfate is mainly produced as a component for mixed fertilizers by the Koksara (Coke Plant) "Boris Kidrić" and the coke plant in Zenica. The total yearly production of these two plants is 9 - 10,000 tons; c) ammonium nitrate of which the Fabrika azotnih jedinjenja (Nitrogen Compounds

Card 1/4

YUG/2-59-1-16/22

Production of Artificial Fertilizers in the Federal People's Republic of Yugoslavia

> Plant) in Gorazde, with a yearly capacity of 24,000 tons, is the only producer. About 5 - 6,000 tons of the total yearly production is used for production of mixed fertilizers and the rest is divided between export and the supplies for the chemical industry. 2) Phosphate fertilizers: a) superphosphate is produced by "Zorka" in Subotica, "Cin-karna" in Celje and "Zorka" in Sabac. Total capacity is 260,000 tons yearly, and expansion of these plants is planned; b) hyperphosphate, the production of which started in 1957 by the "Tovarna dušika" (Nitrogen Plant) in Ruse, is obtained by grinding imported crude phosphate. New plants should be constructed in the vicinity of the Adriatic ports to save the cost of double transport, since the Adriatic coastal area is the main consumer of this fertilizer. 3) Mixed fertilizers, i.e. "amonfos", "nitrofos", "nitrofoskal" and "KAS", are produced by "Zorka" in Subotica and "Tovarna dušika" (Nitrogen Plant) in Sabac. The maw materials required for the production of these fertilizers are

Card 2/4

YUG/2-59-1-16/22

Production of Artificial Fertilizers in the Federal People's Republic of Yugoslavia

imported, since the domestic resources are negligible. total production of all three kinds of fertilizers, i.e. nitrate, phosphate and mixed, does not satisfy the need and individual mixed-fertilizer mixing stations are to be built in consumer centers. Since the new plants which are planned to be constructed by 1961 will not be completed by that date owing to the consistent refusal of the USSR to give the necessary loans, agriculture will still depend on imported fertilizers or on the import of raw materials for production of fertilizers. The import of potash fertilizers is a permanent feature of the Yugoslav economy since there are no adequate domestic sources of raw material for these fertilizers. The author emphasizes the need for planning for the period after 1961, for construction of phosphate fertilizer plants in the Western regions of Yugoslavia, and for the production of concentrated fertilizers, i.e. tricalcium phosphate and ammonium phosphate. The shortage of nitrate fertilizers could be overcome with the

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Production of Artificial Fertilizers in the Federal People's Republic of Yugoslavia

domestic sources of bonded nitrogen, i.e. natural gas and lignite. Crude phosphorus will still have to be imported and phosphoric acid required for various kinds of fertilizers could be produced by thermal process in locations with a seasonal surplus of hydropower. There are 7 tables and 10 references, 1 of which is French and 9 Yugoslav.

ASSOCIATION: Zavod za privredno planiranje NRH, Zagreb (Institute for Economic Planning of the People's Republic of Croatia,

Card E/4

DEEFIN, Slava, ing.

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S(): Sum. No. 521, 2 Jun 55

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(BRAIN-BLOOD SUPPLY) (MENINGES-TUBERCULOSIS)

LELI, Lasslo, dr.

Clinical experience with the determination of gastric acidity with "gastrotest". Orv.hetil. 102 no.6:262-263 5 F'61.

1. Debreceni Orvostudomanyi Egyetem, II. Belklinika. (GASTRIC JUICE)

#### DELI, Laszlo, dr.

The hyperglycemia and glycosuria-inducing effect of thiazide derivatives in diabetics. Orv. hetil. 103 no.7:302-303 18 F 162.

1. Debreceni Orvostudomanyi Egyetem, II Belklinika.

(CHLOROTHIAZIDE ther)
(DIABELIES MELLITUS ther)
(GINCOSURIA etiol)

HUMbass

DELD, Laurin. Dr. and. Sandor, br. Divenyl, Istvan, br. Medical Privaru Tity of Debracer, II. Medical Clanto and Pathological Institute (orbrecent Orvert Commanyl Egyetem, II. Delklinika es Korronetani Internt).

"Sympthesic Agrominopicals on Typhingmanulomatoria."

Bumpager, greet Herling, Vol 150, No 10, 10 Yer 1963, pages 1 17-403.

Angions (Anthors' Suscernias surveys) The authors reports a case of lymp excemileratesis (Lg.) which originates in the glands of the rekers confidented itself in the abdominal form of Lg. five years later. It this time presents are observed. With recovery from the presention agreembourtesis was observed. With recovery from the presentia, the recovery from the presents, the resumphises were again present in the blood. A neek later as anothe mailtaners presidents form of Lg. developed and the patient limit in a separtic come. The clinical data suggest that the composition agreembouters in Lg. is facilitated by infection. The possibility what the include of the abdominal form of the disease into the acone walling applicants was triggered by the infection is also preposed. A Western, I bushern European references.

4.1

DELI, Laszlo, dr.; DAN, Sandor, dr.; DEVENYI, Istvan, dr.

Symptomatic agranulocytosis in Hodgkin's disease. Orv. hetil. 104 no.10:457-459 10 Mr '63.

1. Debreceni Orvostud manyi Egyetem, II. Belklinika es Korbonctani Intezet. (HODGKIN'S DISEASE) (AGRANULOCYTOSIS)

SZILAGYI Janos, dr.; DELT, Laszlo, dr.; OSVATH, Sandor, dr.; KANTOR, Erzsebet, dr.; SIMAY, Attila, dr.

Pathophysiology and clinical picture of chronic cardiorespiratory insufficiency. Orv. hetil. 106 no.20:921-925 16 My'65.

1. Debreceni Orvostudomanyi Egyetem, Tbc Klinika (mb. igazgato: Pongor, Ferenc, dr.); II. Belgyogyaszati Klinika (igazgato: Petranyi, Gyula, dr.), Rtg. Klinika (mb. igazgato: Jona, Gabor, dr.).

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Results in model tests on lowering underground water level by means of vacuum wells. Hidrelegiai kozlony 43 no.1:19-30 F 163.

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Feaults in model tests on ground water level lowering ty vacuum wells. Acta techn Hung 49 no.1/2:163-189 64.

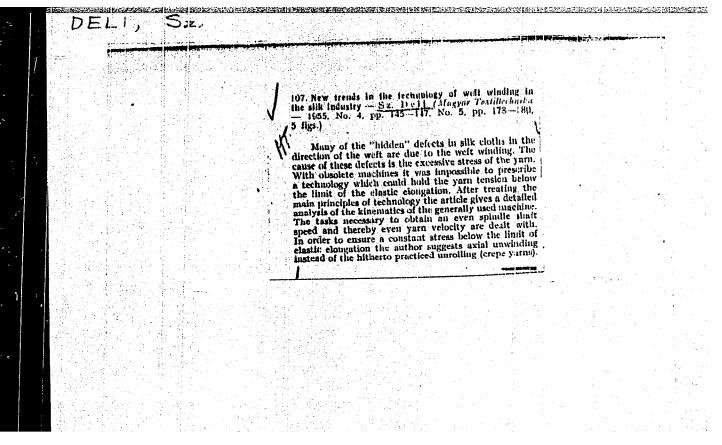
1. Lehrstuhl I. fur Wasserbau an der Technischen Universität für Bau- und Verkehrswesen, Budspest.

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Vol. 3, no. 6 SO: Monthly List of East European Accessions,/Library of Congress, June 1954, Uncl.



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DELIBALTOV, Iosif; TSONEV, Ivan; KHRISTOV, Khristo; TSOLEY, Boian

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Irrigation of maize by sprinkling. Khidrotekh i melior 9 no.1:

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(Electric wiring) (Electric lines)

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VENETSIANOV, Yevgeniy Andreyevich; DELIBASH, B.A., red.; LARIONOV, G.Ye., tekhn. red.

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DELIBASH, Boris Apostolovich; ZHIVOV, Mikhail Semenovich;
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[Installation of the electrical equipment of large cupola furnaces] Montazh elektrooborudovaniia krupnykh domennykh pechei. Moskva, Gosstroiizdat, 1963. 105 p. (MIRA 17:1)

VENETSIANOV, Whenly Androyevich; DELIEASH, B.A., nauchn. red.; radulina, M.A., red.

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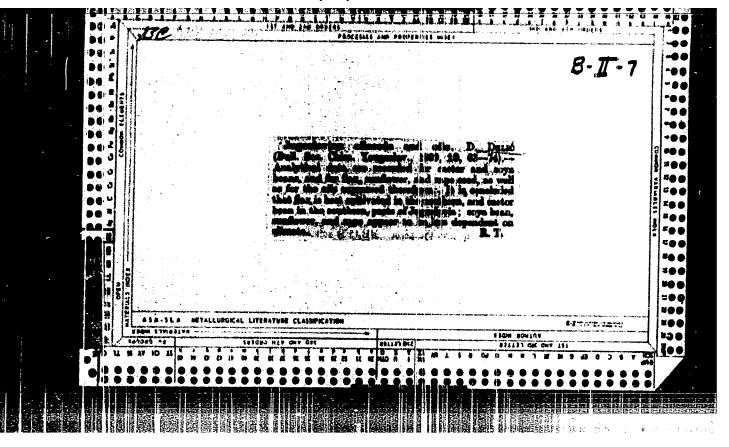
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DECIC, D.; GRIZO, A.; NIKOLIC, Z.

Importance of determining free lime in cement, a survey of methods of determination. p. 248. Vol. 11, No. 2, 1956. TEHNIKA. Beograd, Yugoslavia.

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

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YUGOSLAVIA / Chemical Technology, Chemical Products and H

Their Application, Part 2. - Ceramics, Glass, Binders, Concretes. - Glass.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61723.

: Dejan Delic, Milutin Jovanovic, Moncilo Rostic. Author

: Not given. Inst

: Theory of Glass Tempering and Its Practical Ap-Title

plication.

Orig Pub: Tehnika, 1957, 12, No 10, Hem. ind., 11, No 10,

153 - 158.

Abstract: Based on bibliographical data and the theory of

glass (G) tempering (T) developed by G. M. Bartenev, the following questions are discussed: fundamental concepts of T mechanism; tempering of a glass plate at its symmetrical cooling ac-

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YUGOSLAVIA / Chemical Technology, Chemical Products H and Their Application, Part 2. - Ceramics, Glass, Binders, Concretes. - Glass.

Abs Four: Ref Zhur-Khimiya, No 18, 1958, 61723.

Abstract: cording to a specified regime; computation methods (equations and tables) of the heat transfer factor and optimum temperatures of tempering flat glass specimens. An example of a concrete application of the T theory based on computations obtained from practical data is presented.

Card 2/2

DELIC, D

- YUGOSLAVIA / Chemical Technology, Chemical Products H and Their Application, Part 2. - Ceramics, Glass, Binders, Concretes. - General Topics.

Abs Jour: Ref Zhur-Khimiya, No 18, 11958, 61649.

Author : Dejan Delic, Marija Tecilazic-Stevanovic,

Nada Petrovic.

Inst : Chemical Society, Yugoslavia.

Title : Some Researches Concerning Granulometric Com-

position of Clays.

Orig Pub: Glasnik Hem. drustva, 1957, 22, No 4, 245 - 251.

Abstract: The purpose of the work was to find the most efficient method of determination of particle size. The direct microscopic method and 4 (indirect) methods based on the rate of settling of clayey suspension were checked by the

Card 1/2

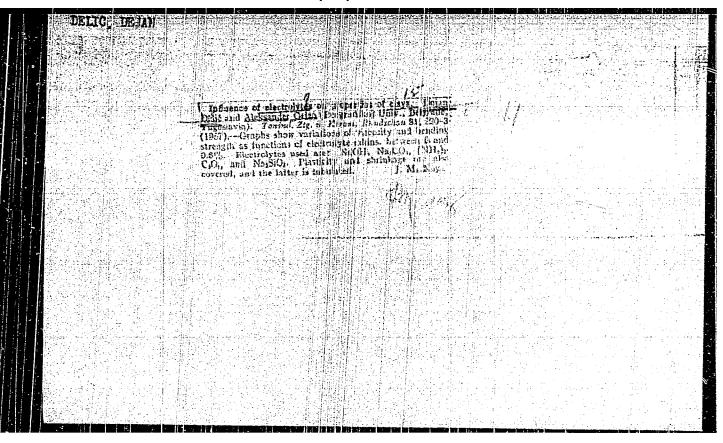
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YUGGSLAVIA / Chemical Technology, Chemical Products H and Their Application, Part 2. - Ceramics, Glass, Binders, Concretes. - General Topics.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61649.

Abstract: comparison method. The areometric method is the simplest and the time necessary to carry it out is the shortest compared with other above mentioned methods. The accuracy of results obtained with that method is about 12%.

Card 2/2



RUMANII/, Chemical Technology. Chemical Products and Their

H-13

Application. Ceramics. Glass. Binding Materials.

Concrete.

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5456.

Author : Delic, Dejan; Janachovic, Toma.

Inst : Belgrade University.

Title : Protection of Surface of Refractory Materials.

Orig Pub: Ind. uscara, 1958, 5, No 5, 168-170.

Abstract: Work concerning the determination of the degree of

corrosion of almosilicate refractory raterials by Na<sub>2</sub>CO<sub>3</sub>, K<sub>2</sub>CO<sub>3</sub> and slag containing alkalis was carried out at the Belgrade university (Federal People's Republic of Yugoslavia). 8 different refractory raterials were studied, they contained 36 - 39, 42-45, 45-50 and about 60% of Al<sub>2</sub>O<sub>3</sub> and differed by the structure of the body

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RUMANIA/Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binding Materials. Concrete.

H-13

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5456.

(coarse-grained, medium-grained and fine-grained). Specimens of the size 100 x 100 x 65 mm burned at 14000, in which holes had been drilled (according to DIN 1069) were tested. The holes were filled with weighed amounts of reagents and the specimens were heated in a furnace to 1250°, this temperature being maintained for 12 hours. After the burning the specimens were cut and the corrosion was determined in cub.cn and in % in the relation to a whole brick of 2000 cub.cn in volume. Also tests of the corrosion of crucibles (made of the same bricks) coated on the inside with a suspension of V<sub>2</sub>O<sub>5</sub> in water, which had been applied by atomizing with con-

Card : 2/3

RUM'HL'/Chemical Technology. Chemical Products and Their Application. Coramics. Glass. Rinding Materials. Comerete.

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Abs Jour: Ref Zhur-Khim., No 2, 1959, 5456.

pressed air, were carried out. Fine-grained refractory naterials containing \$\frac{1}{2}-\frac{1}{2}\frac{1}{2

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 $\rho_{2} \in \mathbb{R}^{n} \times \mathbb{R}^{n}$ 

26270 Y/001/60/000/005/002/002 D257/D304

15.2670

**AUTHOR:** 

Delië, Dejan, Doctor of Engineering, Professor

and Ristic, Momčilo, Engineer

TITLE:

Solid state reactions between metal heaters and ceramics

in electrically heated furnaces

PERIODICAL:

Tehnika, no. 5, 1960, 971-972

TEXT: The authors outlined the reactions and mechanisms of Mo with the Ali<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub> system, and a Cr-Fe - Al alloy with the systems Ali<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub>, MgO - SiO<sub>2</sub>; they deal with their usefulness and that of "simtercorund" (pure Al<sub>2</sub>O<sub>3</sub>) as material for carriers. The report is in four parts: (1) The reactions of an alloy with Cr, Fe Al, Abstrator's note: Cr/Fe/Al refers to the alloy: 30% Cr, 5% Al, 65% Fe, which erroneously appears in the original as: 30% Cr, 5% AC with Al<sub>2</sub>O<sub>3</sub> and MgO - SiO<sub>2</sub> ceramics. Alloy (30% Cr, 5% Al) is in popular use as a Card 1/5

X

26270 Y/001/60/000/005/002/002 D257/D304

Solid state ...

furnace element and was here used in wire form (TYP Cr Al 30.5 DIN 17470). Wires of different diameters were embedded into milled (0.3 - 0.6 mm bead size) Sipalox A and Sipalox C (60% Al<sub>2</sub>0<sub>3</sub> and 70% Al<sub>2</sub>0<sub>3</sub> respectively) materials, and then heated to an optimum temperature of 1300°C. Investigations showed that corundum powder in place of Sipalex A and C does not react with the wires at all. Reaction in the case of the alloy and Al<sub>2</sub>0<sub>3</sub> is attributed to the presence of quartz in the Sipalex material. The mechanism is postulated as follows: on heating Al diffuses to the surface of the alloy where it oxidizes, forming an impermeable layer preventing further Al diffusion; but, with free quartz present, the oxide coat reacts with SiO<sub>2</sub>; aluminum continues to diffuse to the surface, where it reacts with SiO<sub>2</sub>. The diffusion coefficient of Al in iron is greater than the diffusion coefficient of chromium in iron, which supports this theory. Determination of the Al contents of the alloy on heating with the ceramics

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Solid state ...

also support this mechanism. The more rapid loss of Al and lower reaction time in thinner wires is due to a much smaller volume/area ratio, as compared to thicker wires. When the Al in the alloy is used up and can no longer form a surface layer, reaction between quartz and Cr and Fe exides proceeds quickly. This mechanism also applies to MgO\_SiO\_2 type ceramics where free MgO can react with coats of Al\_O\_3 to build spinels. (II) The reaction between Al\_O\_3 - SiO\_2 and Mo is due to the presence of free quartz in the ceramic mulls, together with the increased electrical conductivity of mulls above 1000°C. Short circuits thus arise the molybdenum spirals, melting the refractory former and thus giving rise to reactions. Quartz reacts with molybdenum exide even at 1320°C, and to stop this, MgO has been added to remove free quartz. The pure Al\_O\_3 carrier, "Sintercorynd" is more efficient; it was found unreactive as a former even at 1950°C. (III) Reactions of al\_O\_3 with Mo, W, and Pt. In high vacua Al\_O\_3 and Mo do not react, how the pure H\_2, but if the hydrogen contains traces of nor do they do so in pure H\_2, but if the hydrogen contains traces of

X

Card 3/5

26270 Y/001/60/000/005/002/002 D257/D304

Solid state ...

oxygen grey spots appear at the contacts; those spots increase with oxygen grey spots appear at the contacts, those properties of tungsten were measured in high vacuum at 1500 C, when it showed no reaction with alumina. Platinum does not react, but in reducing atmospheres, minute amounts of quartz present transform to SiO, which reacts with Pt given platinisilicides, important in thermecouples of the PT/PT-Rh type. (IV) Reaction of C, W, Mo with ZrO2 and MgO. Ceramics of the ZrO2 and MgO type react with C, W, and Mo at high temperatures at pressures of  $10^{-1}$  -  $10^{-5}$  Torr. In fact all these materials react with each other at high temperatures and in intimate contact. In conclusion, a Cr- Fe - Al alloy reacts with Al<sub>2</sub>0<sub>3</sub> - SiO<sub>2</sub> and MgO - SiO<sub>2</sub> type ceramic carriers only if free quartz is present. Mo if exidized at the surface reacts even at 1300°C with quartz, to form molybdenum silicates. Hence the following systems can be used for construction of furnace heating elements: (1) Fe - Cr - Al alloy and ceramics free from quartz and MgO. (2) Mo heaters and sintered corundum (pure Al203),

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Solid state ...

 ${\bf Zr0}_2$ , or MgO. (3) Tungsten heaters and pure  ${\bf Al}_2{\bf 0}_3$ , MgO, or  ${\bf Zr0}_2$ . (4) Pt heaters and pure Al<sub>2</sub>0<sub>3</sub>. There are 2 tables and 7 non-Sovietbloc references. The reference to the English language publication reads as follows: P. Johnson, J. Amer. Cer. Soc. 33, 1950, 168-171.

ASSOCIATION: Tehnoloski fakultet univerziteta u Beogradu, Jugoslavija

(Technological Faculty, University of Belgrade, Yugos-

lavial

SUBMITTED: November 25, 1959

Card 5/5

DELIC, Dejan M.; JOVANOVIC, Milutin A.

Changes on the glass surface due to the action of water at higher temperatures. Glas Hon dr 25/26 no.8/10:477-483 '60/'61.

1. Faculty of Technology, Institute of Inorganic Chemical Technology, Beograd.