

1. STRENGTH, D.K., USSR.

"On the Physiology of the Nervous System."

Report presented at the 1st Int'l. Symposium on the  
Neurophysiology of the Nervous System, Moscow, 12-16 Aug 1961.

GORYUNOVA, S.V.; OSNITSKAYA, L.K.

Some investigations in the field of microbiology carried out in  
Hungary. Mikrobiologiya 30 no.2:374-376 Mar-Apr '61. (MIRA 14:6)  
(HUNGARY—MICROBIOLOGY)

SHAPOSHNIKOV, V.N.; OSNITSKAYA, L.K.; CHUDINA, V.I.

Development of the purple sulfur bacterium, *Chromatium vinosum*, in various light intensities. *Mikrobiologiya* 30 no.5:825-832 S-0 '61.  
(MIRA 14:12)

1. Institut mikrobiologii AN SSSR.  
(BACTERIA, SULFUR) (LIGHT--PHYSIOLOGICAL EFFECT)  
(CHROMATIUM VINOSUM)

OSNITSKAYA, L. I.

"Carbon Metabolism of Photosynthesizing Bacteria Chromatium Vinosum."

report presented at the Intl. Colloquium on Photosynthesis, Gif-Sur-Yvette,  
France, 23-27 July 1962.

Inst. of Microbiology USSR Acad. Sci.

L 36521-65 EWO(a)-2/EWO(c)/EWO(j)/EWO(r)/EWO(v)/EWT(1)/FS(v)-3 Pe-5 DD

ACCESSION NR: AP5003898

S/0216/65/000/001/0058/0065

AUTHOR: Osnitskaya, L. K.

TITLE: Role of carotinoids in the photosynthesis of purple sulfur bacteria

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1965, 58-65

TOPIC TAGS: Chromatium vinosum, bacteria, culture method, plant pigment, carotinoid, light energy, photosynthesis, short wave radiation, long wave radiation, absorption spectrum, carbon dioxide

ABSTRACT: Purple sulfur bacteria (Chromatium vinosum) cultures were investigated to determine the role of carotinoids and the effect of light spectral composition and its intensity on photosynthesis. Bacteria cultures were grown anaerobically at 30° in glass vessels

containing a mineral medium. During incubation the cultures were exposed to different light spectral compositions produced by 30 watt luminescent lamps with various luminophors: 1) blue light, 400 to 500 millimicrons, 2) green light, 500-580 millimicrons, 3) red light,

Contd 1/3

L 36521-65

ACCESSION NR: AP5003898

580 to 670 millimicrons, and 4) white light with complete spectral composition. Biomass and number of cells were determined spectrophotometrically according to optical density at 680 millimicrons and the amount of assimilated carbon dioxide was measured by a manometer. Absorption spectra of live cell suspensions were also measured. Findings show that photosynthesizing Chromatium vinosum

bacteria have the capacity to utilize light energy of different spectral compositions. Short wave rays in the carotinoid absorption region (blue and green light) are effective in bacteria photosynthesis. Multiplication of bacteria depends on the quality of light and its intensity. An increase in intensity of long wave radiation as well as short wave radiation produces a favorable effect on bacteria growth and biomass accumulation due to carbon dioxide assimilation. Blue light is more effective than green light in the development of photosynthesizing bacteria with equalization of light energy by erg units or by number of incident quanta. Photoassimilation of carbon dioxide by bacteria in the presence of blue or green light and also in the presence of 464, 497, 535 millimicron wave lengths and others which closely coincide with absorption maximums for basic carotinoid pigments indicates that these pigments participate in photosynthesis.

Card 2/3

1 16521-64

ACCESSION NR: AP5003898

Orig. art. has: 5 tables and 3 figures.

ASSOCIATION: Institut mikrobiologii AN SSSR (Microbiology Institute AN SSSR)

SUBMITTED: 31Mar64

ENCL: 00

SUB CODE: LS

NR REF SOV: 004

OTHER: 013

Cont 3/3



I. 44156-65 EWG(a)-2/EWG(c)/EWG(j)/EWG(r)/EWG(l)/FS(v)-3/EWG(v) PC-5 DD

ACCESSION NR: AP5007991

S/0220/65/034/001/0019/0023

AUTHOR: Osnitskaya, L. K.; Chudina, V. I.

TITLE: Significance of spectral composition and intensity of light in the development of the purple sulfur photosynthetic bacteria *Chromatium vinosum*

SOURCE: Mikrobiologiya, v. 34, no. 1, 1965, 19-23

TOPIC TAGS: photosynthesis, sulfur bacteria, light spectrum, carbon

ABSTRACT: A pure culture of *Chromatium vinosum* was grown on Van Niel's mineral medium containing 0.2% Na<sub>2</sub>S and 0.5% NaHCO<sub>3</sub> as the sole source of carbon. The experiments were carried out anaerobically and the temperature was kept between 26 and 28°. Bacterial growth was promoted by the energy supplied by light of varying spectral composition, including blue and green in the short-wave part of the spectrum. The dynamics of bacterial development varied with the spectral composition.

Card 1/2

L 44156-65

ACCESSION NR: AP5007991

green light (500-560 mμ), provided that the light flux was equal in ergs and incident quanta. The rate of bacterial development in red light (580-700 mμ) was slower than in light of full spectrum composition. Orig. art. has: 1 figure, 4 tables.

ASSOCIATION: Institut mikrobiologii AN SSSR (Institute of Microbiology, AN SSSR)

SUBMITTED: 11Feb64

ENCL: 00

SUB CODE: LS

NO REF SOV: 010

OTHER: 004

Card 2/2 *mb*

L 27403-66 EWI(1) SCTB DD

ACC NR: AP6017701

SOURCE CODE: UR/0220/65/034/002/0204/0208

AUTHOR: Osnitskaya, L. K.

29  
B

ORG: Institute of Microbiology, AN SSSR (Institut mikrobiologii AN SSSR)

TITLE: Photosynthetic development of the purple sulfur bacteria *Chromatium vinosum* in light within narrow regions of the spectrum

SOURCE: AN SSSR. *Mikrobiologiya*, v. 34, no. 2, 1965, 204-208

TOPIC TAGS: photosynthesis, bacteria, plant physiology, carbon dioxide, bacteriology

ABSTRACT: The development of *Chr. vinosum* on an inorganic medium by the photosynthetic utilization of CO<sub>2</sub> was studied on illumination in the ranges of 400-550 millimicrons (the region of absorption by carotenoids), 580-600 millimicrons (the region in which the short-wave peak of absorption by bacteriochlorophyll is located), and 700-1,000 millimicrons (the region of the principal absorption by bacteriochlorophyll). It was established that the bacteria resorbed CO<sub>2</sub> and developed only under the effect of light of the wavelengths 447, 464, 497, and 535 millimicrons, which corresponded to maxima of absorption by carotenoid pigments. This result indicated that carotenoids participate in the process of photosynthesis. Orig. art. has: 4 tables. [JPRS]

SUB CODE: 06 / SUMM DATE: 25Feb64 / ORIG REF: 003 / OTH REF: 009

Card 1/1

UDC: 576.8.095.324.4

OSNITSKAYA, L.K.

Some studies in the field of biochemistry and microbiology  
prepared by the scientific institutes of England.  
Mikrobiologiya 34 no.3:569-573 My-Je '65.

(MIRA 18:11)

OSNITSKAYA, L.K.

Sixth International Biochemical Congress. Mikrobiologiya 34  
no.5:931-937 S-O '65. (MIRA 18:17)

OSNITSKAYA, L. K.

"Influence of Intensity and Spectral Composition of Light on the Process of  
Photosynthesis of Purple Sulphur Bacteria."

report submitted for 6th Intl Cong Biochemistry, New York, 26 Jul-1 Aug 1964.

OSNITSEVA, N. A.

analyst, U.S. Intelligence Agency

Results of tests of intelligence  
by U.S. Intelligence Agency  
analyst, U.S. Intelligence Agency

301-1-1277, U.S. Intelligence Agency

OSNITSKAYA, Ye. A.

Osnitskaya, Ye. A. "The dynamic development of bulb rot of onion (*Botrytis allii*)  
in relation to conditions of environment and growth," Trudy nauch.-issled.  
in-ta ovshch. khoz-va, Vol I, 1948, p. 252-64 - Bibliog: 7 items

SO U3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No 3, 1949)



OSNITSKAYA, Ye. A.

Osnitskaya, Ye. A. "Alternariosis of cabbage seeds in the Adlersk rayon of Krasnodar Kray," Trudy nauch.-issled. in-ta ovosheh. khoz-va, Vol. I, 1948, p. 265-73

SO U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No 3, 1949)

OSNITSKAYA, N. A.

EVASHINOV, N. V., OSNITSKAYA, N. A. and SAMOENKO, V. I. "On resistance of plant varieties to Corn Root," Sad i Ogorod, no. 6, 1960, pp. 91-93 10 Sal 3

OSNITSKAYA, E. A.

GEFARTNOV, B.A., and OSNITSKAYA, E. A. Control of Vegetable Pests and Diseases,  
State Publishers of Agricultural Literature, Moscow, 1944, 95 pp. 464.4 G31

So: S'ra S1-90 53, 15 Dec 1963

OSNITSKAYA, Ye. A.

15189\* (Control Measures Against Carrot Phomosis.) Meri-  
buzhskaya gosstankhoz. E. A. Osnitskaya. Sad i Dvorok,  
1954, no. 7, July, p. 19-21.  
Treating seeds with gencosen, thiofos, and TMID fungicides.  
Tables.

OSNITSKAYA, Ye. A.

[Neck rot of onions] Sheikovaia gnii' luka. Moskva, Gos. izd-vo  
selkhoz. lit-ry, 1957. 39 p. (MLRA 10:5)  
(Onions--Diseases and pests)

IZRAIL'SKIY, V.P., prof., doktor biolog.nauk; SHUSTOVA, L.N., kand.med.  
nauk; GOHLENKO, M.V., doktor biolog.nauk; MURAV'YEV, V.P.;  
BEREZOVA, Ye.F., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog;  
GRUSHEVOY, S.Ye., doktor sel'skokhoz.nauk; NEMLIYENKO, F.Ye.,  
doktor biolog.nauk; BEL'TYUKOVA, K.I., doktor biolog.nauk; STARYGINA,  
L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; ANT'YEM'YEVA,  
Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; OSNITSKAYA, Ye.A.,  
fitopatolog; YASHNOVA, N.V., fitopatolog-mikrobiolog; MIKZABEK'YAN,  
R.O., kand.biolog.nauk; TETUREVA, I.V., red.; PEVZNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2.,  
perer. i dop. Moskva, Gos.izd-vo selkhoz.lit-ry, 1960. 467 p.  
(MIRA 13:7)

1. Chlen-korrespondent Ukrainskoy AN (for Murav'yev).  
(Bacteria, Phytopathogenic) (Plant diseases)

OSNITSKAYA, Ye. A., Cand Biol Sci -- (diss) "Foot rot in onions." Mos-  
cos, 1960. 17 pp; (Moscow Order of Lenin Agricultural Academy im K. A.  
Timiryazev); 150 copies; price not given; (KL, 26-60, 133)

GERASIMOV, B. A.; OSNITSKAYA, Ye. A.; SIDOROV, A. I.

Sulfur smoke pots. Zashch. rast. ot vred. i bol. 5 no.10:  
34-35 0 '60. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva  
RSPSR, st. Perlovskaya, Moskovskoy zheleznoy dorogi.

(Fumigation)



OSNITSKAYA, Ye.A.; GERASIMOV, B.A.; LEONOVA, T.S., red.; SAYTANIDI, L.D.,  
tekh.n.red.

[Control of vegetable diseases and pests outdoors] Bor'ba s vre-  
diteliami i bolezniami ovoshchnykh kul'tur v otkrytom grunte.  
Izd.2., dop. Moskva, Izd-vo M-va sel'.khoz.RSFSR, 1960. 28 p.  
(MIRA 14:6)

(Vegetables—Diseases and pests)

ALEKSANDROV, S.V., kand.sel'skokhoz.nauk; BOGUSEVSKIY, A.A., kand.tekhn.  
nauk; VASHCHENKO, S.F., kand.sel'skokhoz.nauk; GERASIMOV, B.A.,  
kand.sel'skokhoz.nauk; GROMOV, N.G. [deceased]; KORBUT, V.A.;  
KUDREVICH, I.A.; MAMAYEV, M.G., kand.tekhn.nauk; NOVIKOV, A.P.;  
OSNITSKAYA, Ye.A.; SIMANOVSKIY, A.Yu.; SLEPTSOV, S.A.; SPIRIDONOVA,  
A.I.; TARAKANOV, G.I., kand.sel'skokhoz.nauk; CHENYKAYEVA, Ye.A.;  
KITAYEV, S.I., red.; PILATOV, N.A., zasluzhennyy agronom RSPSR;  
GRUDINKINA, A.P., red.; MARTYNOV, P.V., red.; ARTSYBASHEVA, A.P.,  
tekhn.red.; BARBASH, F.L., tekhn.red.

[Vegetable growing under cover] Ovoshevodatvo zashchishchennogo  
grunta. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960. 279 p.  
(MIRA 13:12)

(Vegetable gardening)  
(Hotbeds)

(Greenhouses)

GERASIMOV, B.A.; OSITSKAYA, Ye A.; SAVZDARG, V.E., red.; GOL'KOVA,  
Z.D., tekhn. red.; TRUBNIKA, O. B., tekhn. red.

[Pests and diseases of vegetables] Vrediteli i bolezni ovoshch-  
nykh kul'tur. Izd.4., ispr. i dop. Moskva, Sel'khozgiz, 1961.  
535 p. (MIRA 15:6)

(Vegetables--Diseases and pests)

GERASIMOV, B.A.; OSHITSKAYA, Ye.A.; MILOVIDOVA, N.D., red.;  
STREL'TSOVA, N.P., red.

[Pests and diseases of vegetable crops grown outdoors]  
Vrediteli i bolezni ovoshchnykh kul'tur v otkrytom  
grunte. Moskva, Kolos, 1964. 46 p. (MIRA 18:1)

OSNOS, G.M.

Determination of the concentration of citral in the blood and urine of puerperants by the use of paper discs following its intrauterine administration. Lab. delo 10 no.4:226-229 '64. (MIRA 1714)

1. Kafedra akusherstva i ginekologii Uzhgorodskogo gosudarstvennogo universiteta. Nauchnyy rukovoditel' raboty - doktor med.nauk prof. I.N.Renzev.

OSNOS, G.M. [Osnos, H.M.]

Treatment of infected postnatal ulcers, perineal ruptures, and  
necrosis of the cervix uteri in parturients with citral. Ped.,  
akush. i gin. 23 no.3:59-60 '61. (MIRA 15:4)

1. Rodil'nyy budinok No.1 m. Chernivtsiv (golovnyy likar - Ye.K.  
Vinyarskaya [Viniars'ka, E.K.] i kafedra akusherstva i ginekologii  
(zav. - prof. L.B.Teodor) Chernivets'kogo medinstituta (direktor -  
M.M.Kovalev [Koval'ov, M.M.])  
(PREGNANCY, COMPLICATIONS OF) (CITRAL)

OSNOS, G.M.

Frame holder for taking smear impressions. Lab. delo 7 no.12:  
45-46 D '61. (MIRA 14:11)

1. L'vovskaya oblastnaya klinicheskaya bol'nitsa okhrany materinstva  
i detstva (glavnyy vrach T.I.Plakhova) i akushersko-ginekologicheskiy  
otdel (rukovoditel' S.I.Tregub) L'vovskogo nauchno-issledovatel'skogo  
instituta okhrany materinstva i detstva.  
(MEDICAL INSTRUMENTS AND APPARATUS)  
(DIAGNOSIS, CYTOLOGIC)

OSNOS, G.M.

Citral therapy of trichomonal colpitis. Sov.med. 26 no.10:102-  
104 0 '62. (MIRA 15:12)

1. Iz Chernovitskogo klinicheskogo rodit'nogo doma No.1  
(glavnyy vrach E.K.Vinyarskaya) i kafedry akusherstva i ginekologii  
(zav. - prof. L.B.Teodor) Chernovitskogo meditsinskogo instituta.  
(VAGINA—DISEASES) (CITRAL) (TRICHOMONIASIS)



OSNOS, G.M. (Chernovtsy)

Treatment of postnatal and postabortal metroandometrites,  
caused by the retention of placental tissue, by intra-  
uterine administration of citral. Kaz. med. zhur. no.1:72  
Ja-F'63. (MIRA 16:8)

(UTERUS--DISEASES) (CITRAL)

OSNOS, G.M.

Treating cracked nipples with citral. Sov.med. 24 no.1:135-  
136 Ja '60. (MIRA 13:5)

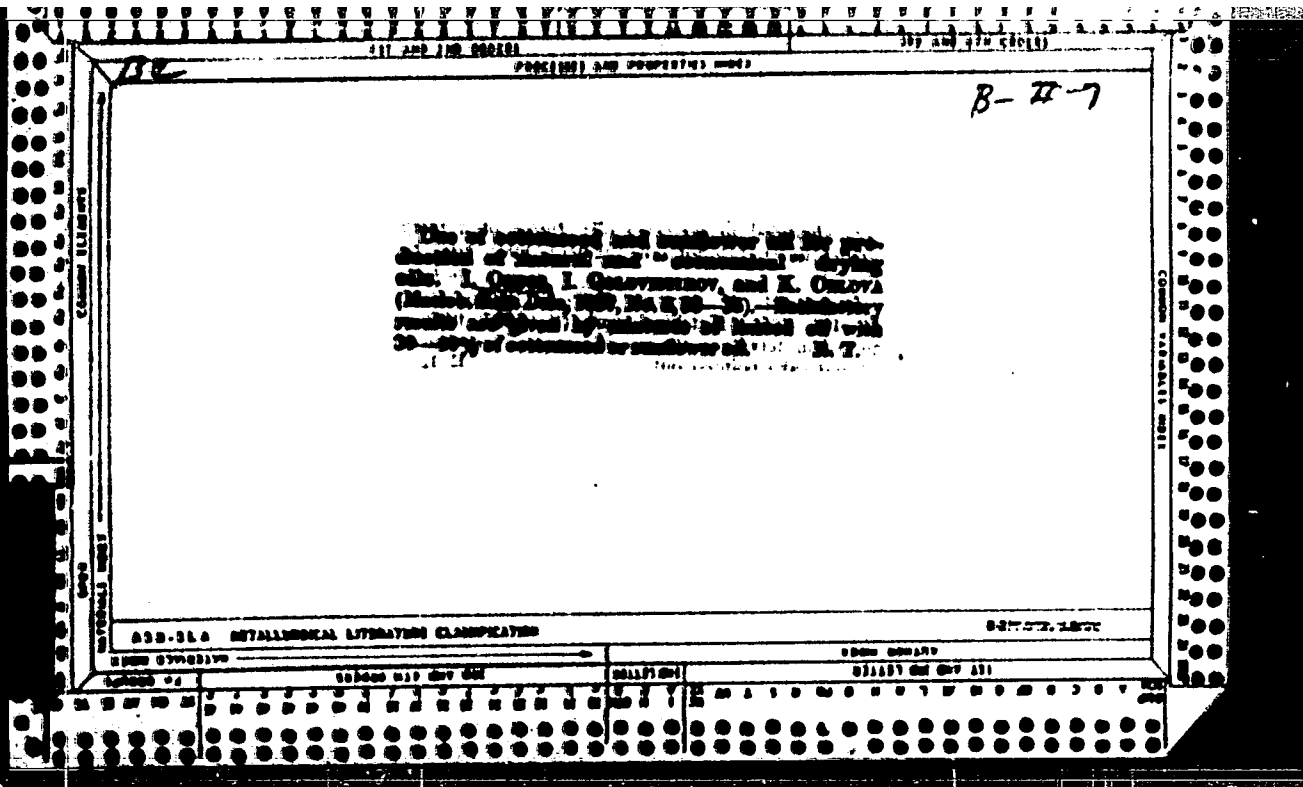
1. Iz rodit'nogo doma No.1 (glavnyy vrach B.K. Vinyarskaya) i  
kafedry akusherstva i ginekologii (zav. - prof. L.B. Teodor)  
Chernovitskogo meditsinskogo instituta.  
(BREAST diseases)  
(CITRAL therapy)

OSNOS, I.

ca

26

Production of linseed oil suitable for house-paint preparation. M. Geras, I. Golovistikov and K. Orlova. Masloboiino Zhirovos Delo 13, No. 3, 13-16(1937).—Comparative tests in refining of 7 specimens of linseed oil showed that the results in removing the mucous ingredient and bleaching degree vary with the origin and methods of extrn. of oil. The treatment with bleaching clays (Boridin, askanit, tripoli, etc., cf. Dorn and Malo-vitskaya, C. A. 30, 8059) tends to remove the mucous ingredients, but gives poor bleaching effect. Activated charcoal gives good bleaching effect, but does not remove the mucous substances. The hydration with 1-3% H<sub>2</sub>O also failed to remove the mucous ingredients. The best results are obtained by the combined treatment, resulting in a clear, pale oil, by treating raw oil with 2% of 0.25% HCl (H<sub>2</sub>SO<sub>4</sub>) at 30-50° for 30-40 min., then neutralizing with 100-150% (of the oil acidity) of 14°Bé. NaOH at 50-70° for 35-40 min. and finally bleaching *in vacuo* with 2% of dry or ignited clay at 93-110° for 1 hr. The bleaching effect can be increased by adding activated charcoal to the clay. The procedure can be modified, depending on the nature of the linseed oil. C. B.



SECURITY AND PROPERTIES UNIT

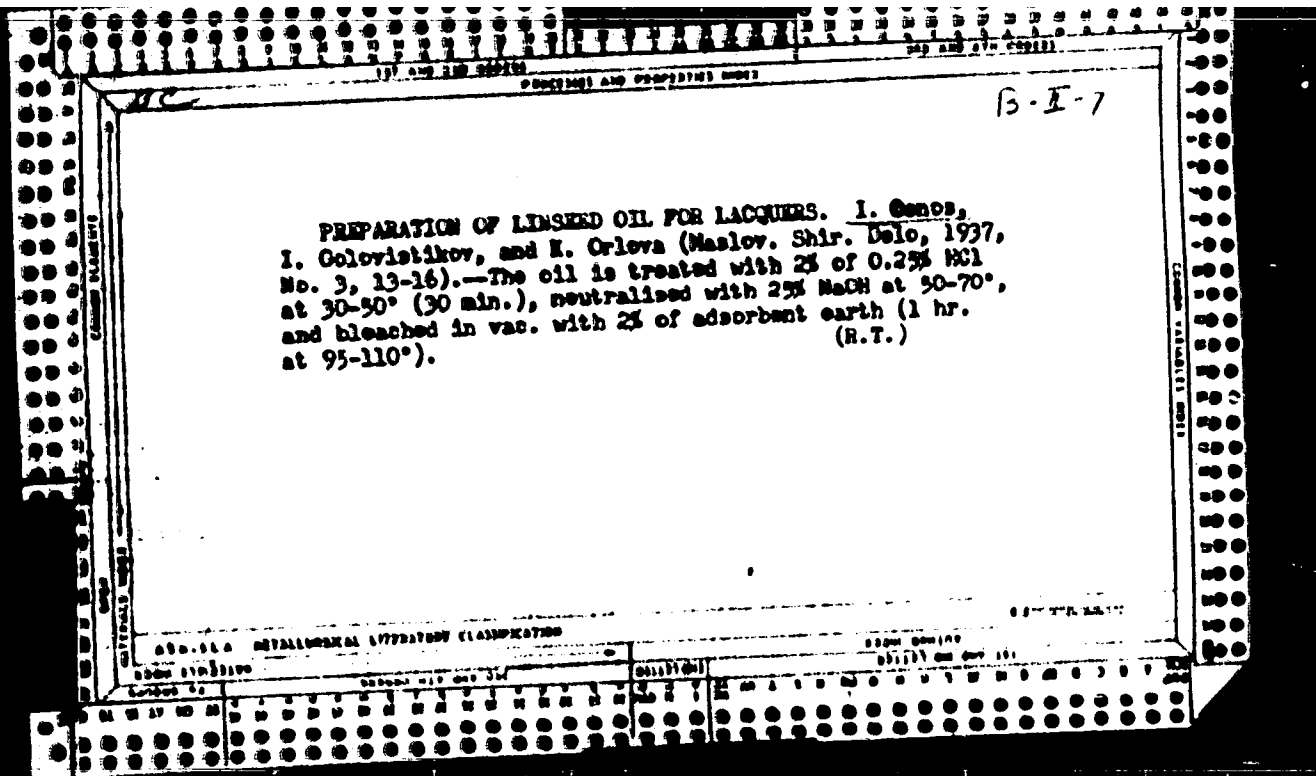
B-2-7

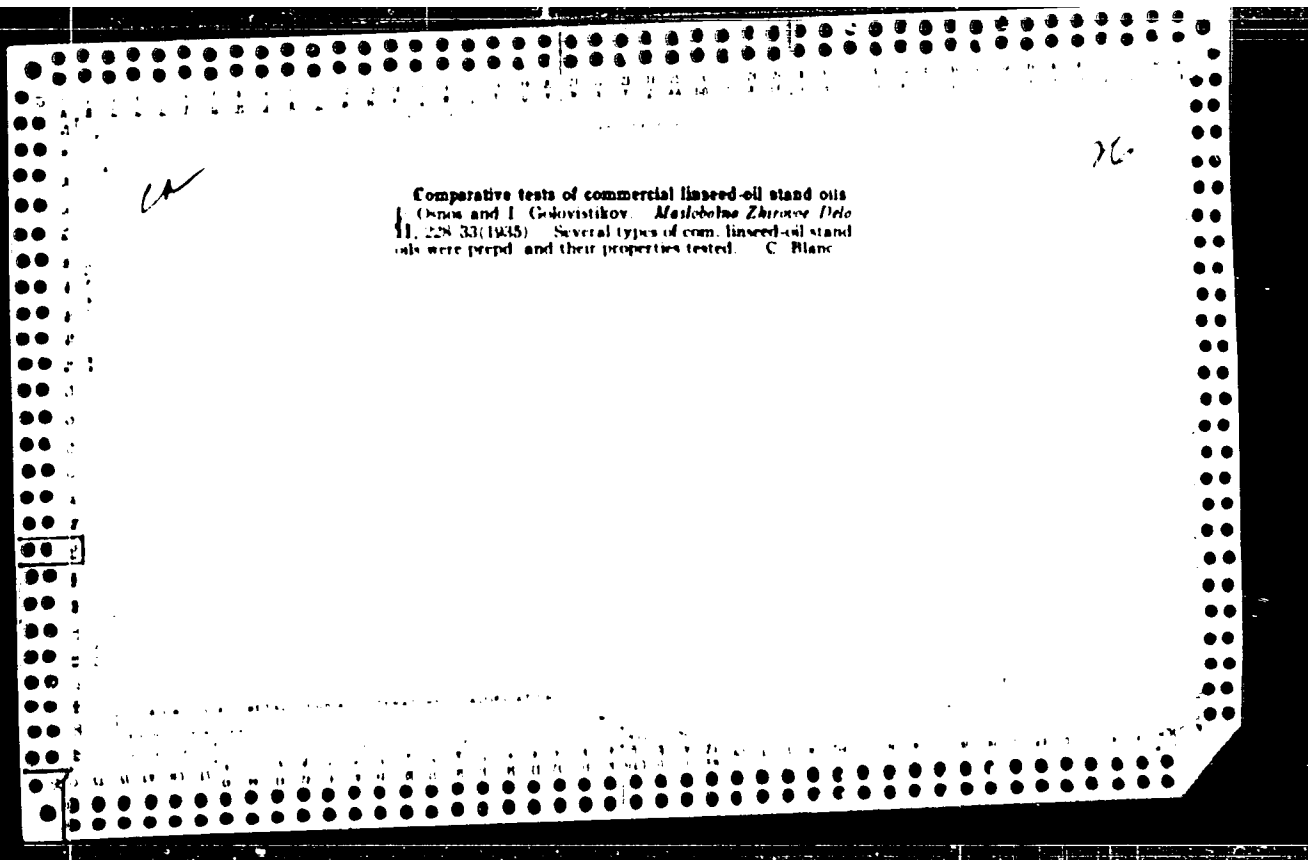
Synthesis of various catalysts for dehydration of carbon  
 ox. I. Jones and J. Galloway (Mach. Chem. Soc., 1940,  
 No. 6, 25-30) H<sub>2</sub>SO<sub>4</sub> is a very active catalyst of dehydrat-  
 ions of triethylsulfide; the reaction commences at 100-110°.  
 at 100-110°, 120-130°, and 150-160°, respectively, in presence  
 of 1-3, 0-2, and 0-1% of H<sub>2</sub>SO<sub>4</sub>, the corresponding reaction  
 times at 200° being 3-4, 4, 0-1, and 0-3 hr., respectively. The  
 highest-yielded product with the smallest acid val. is ob-  
 tained with 0-1% H<sub>2</sub>SO<sub>4</sub> at 200°. A disadvantageous  
 feature of H<sub>2</sub>SO<sub>4</sub> catalysis is the production of irritating fumes.  
 Certain clays activated with H<sub>2</sub>SO<sub>4</sub> catalyze the reaction, the  
 effect given being as their concn. R. T.

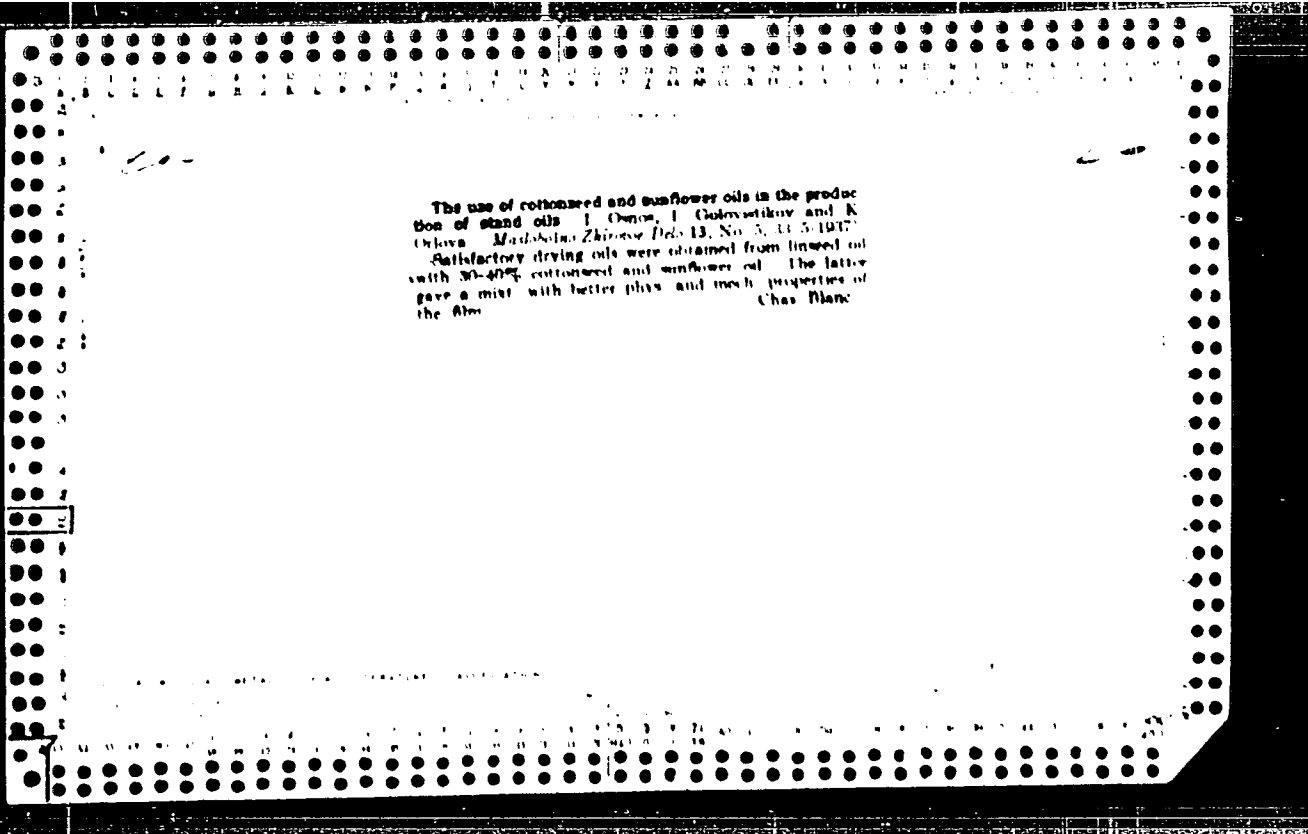
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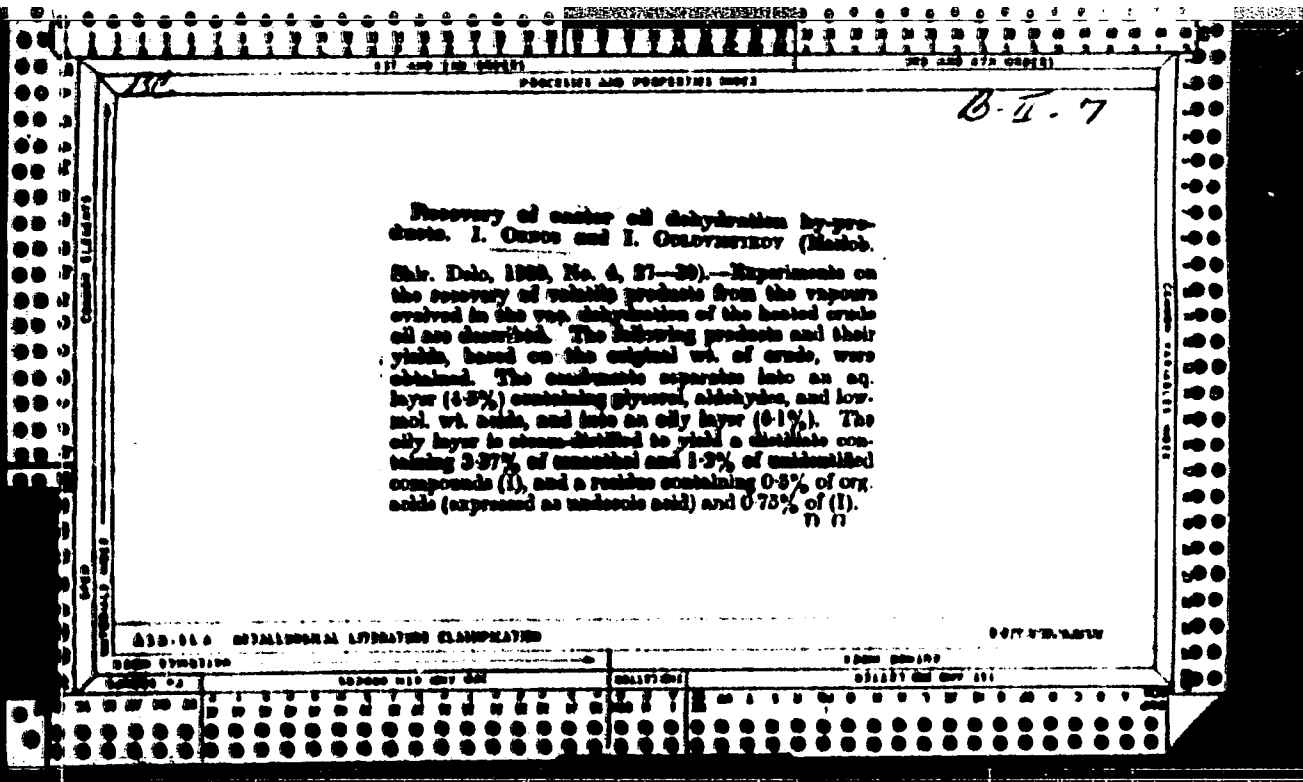
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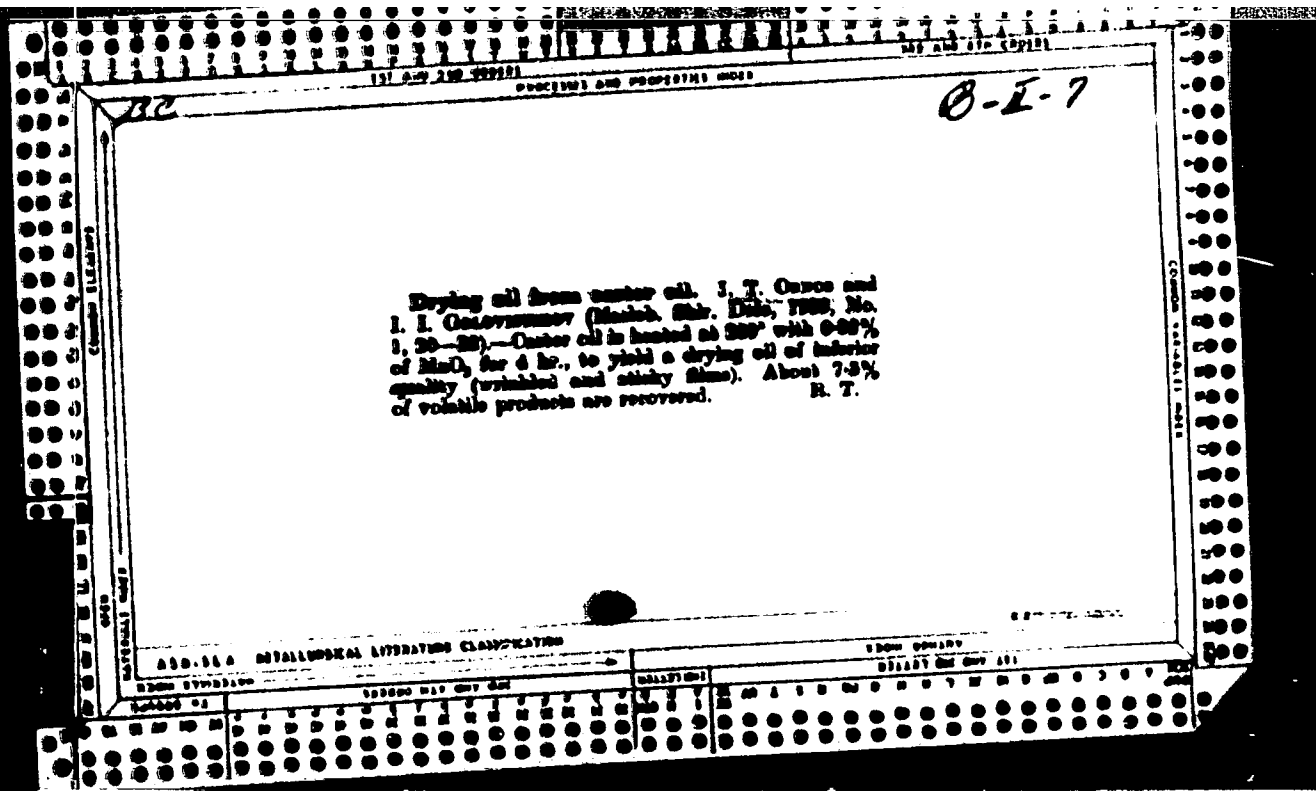












OSNOS, I.T.; IL'YINA, M.S.

Economic cottonseed-tung drying oil. Masl.-shir.prom. 20  
no.4:12-15 '55. (MLRA 8:9)  
(Drying oils)

OSNOS. I.T.

OSNOS, I.T.

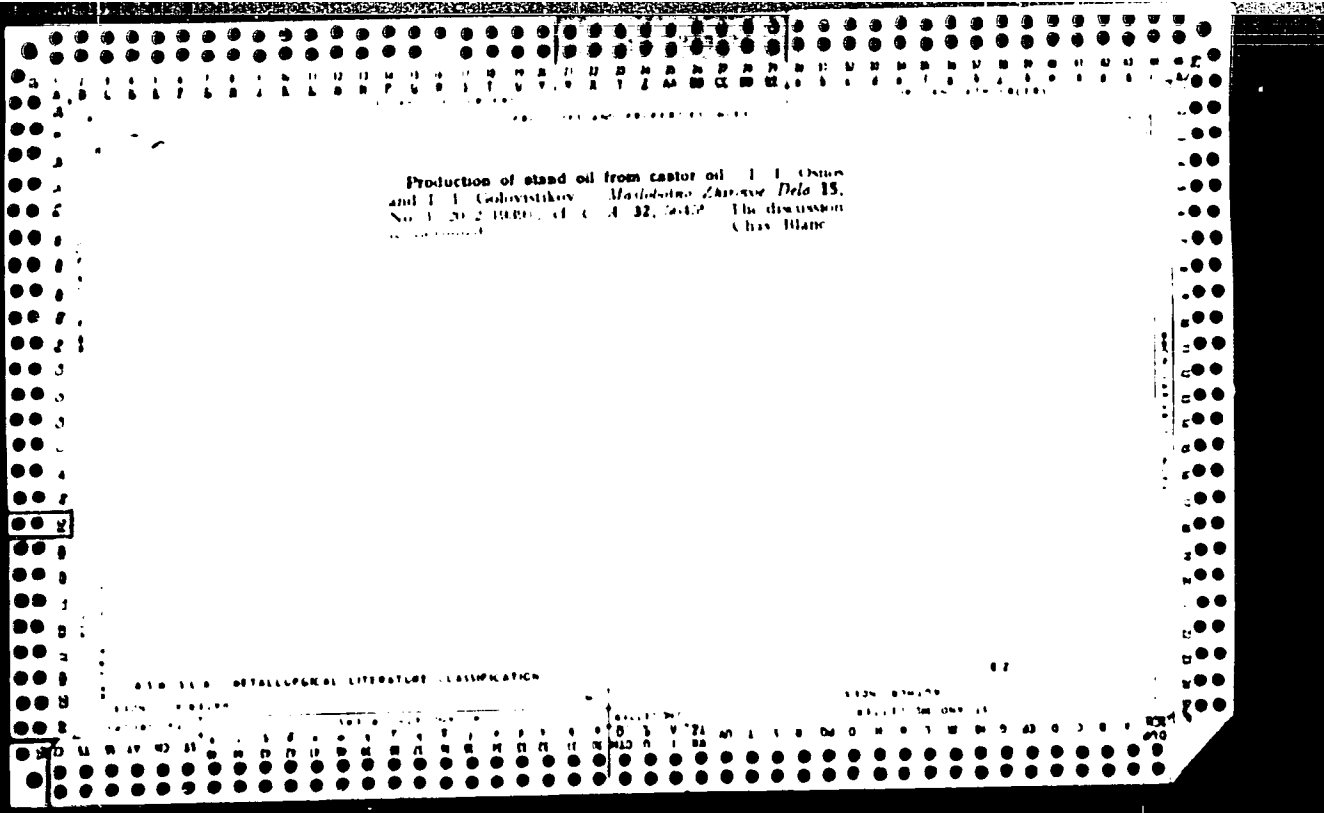
Unfavorable effect of certain phosphatides on the drying of lin-  
seed oil [Peintures, pigments, vernis 29 no. 5:390-392 '53]. Masl.-  
zhir.prom. 20 no.1:37 '55. (MLRA 8:3)  
(Linseed oil)

OSKOS, I. T. ✓

Comparative evaluation of various dehydration catalysts for castor oil. M. F. Ooms and J. J. Galvan. *Ind. Eng. Chem. Anal. Ed.* 16, No. 3, p. 374-375, 1944.

Kaolin, kyanite and  $Al_2O_3$  are active catalysts in dehydrating castor oil at 280° but not at 230°. While as little as 0.005%  $Al_2O_3$  is effective,  $H_2SO_4$  (0.5%) is active at 200°, although it darkens the oil at that temp. Dehydration at 280° with 0.5%  $H_2SO_4$  is very rapid and gives oil with a color reading of only 170 mg. on the Lovibon. With only 0.1%  $H_2SO_4$ , the catalysis, though slower, gives a still paler oil with acid no. 11 (instead of 21 in oil dehydrated with 0.5%  $H_2SO_4$ ). Gumbo (a Russian deodorizing earth) when treated by treatment with  $H_2SO_4$  is almost inactive at 80° even at  $Al_2O_3$  at 0.005%. The palest oil is obtained by use of kaolin or  $Al_2O_3$ , while kyanite has the greatest darkening effect. Curve charts show the temp.-temp. relations of acid no., sapon. no., acid no., I no., viscosity and refractive index in dehydration proceeds with different catalysts.

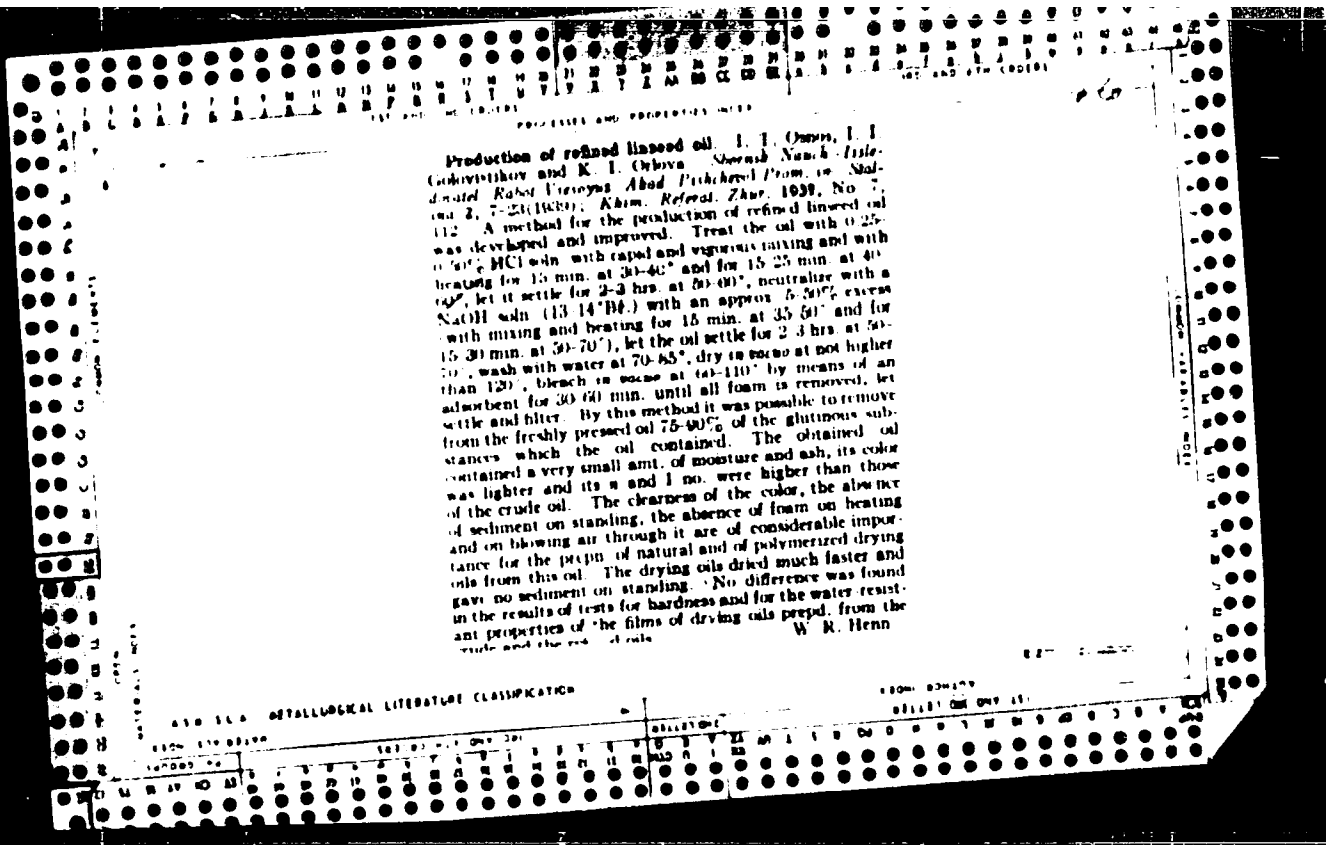
John F. Smith



Refining of hemp oil. I. T. Oboz, I. I. Golovinskiy and K. I. Orlava. *Sbornik Nauch.-Issledovatel. Rabot Vsesoyuz. Akad. Nauch. SSSR, Ser. Khim. Nauk* 2, 34-36 (1960). *Ann. Khetov. Zhur.* 1939, No. 7, 111. Since hemp oil contains considerably less glutinous, protein and coloring substances than does linseed oil, its refining is somewhat different. Optimum results were obtained by the following methods: (1) Neutralize the hemp oil with 10-40% theoretical excess of a base and remove the soap and the bleach with an adsorbent. (2) Treat the oil with 0.25-0.50% H<sub>2</sub>O<sub>2</sub> (on the wt. of the oil), neutralize with a base as previously and remove the excess soap and bleach with the adsorbent. The smaller amounts of the required adsorbent and the smaller losses of oil make the 2nd method preferable to the 1st. The refined hemp oil differed from the crude hemp oil by being colorless, by possessing slightly lower acid no. and slightly higher I no., by having a lower content of unsaponifiable substances and moisture and by containing no ash. Drying oils (natural and polymerized) prepared from the refined oil were more stable on standing. The stability of drying oils containing Ph-driers was not decreased; it was increased in spite of the absence of glutinous substances. Investigations of the drying-oil films for hardness and for water-resistant properties showed that there was no difference in this respect between the drying oils prepared from the crude and the refined oils. W. R. Henn

ADP 31A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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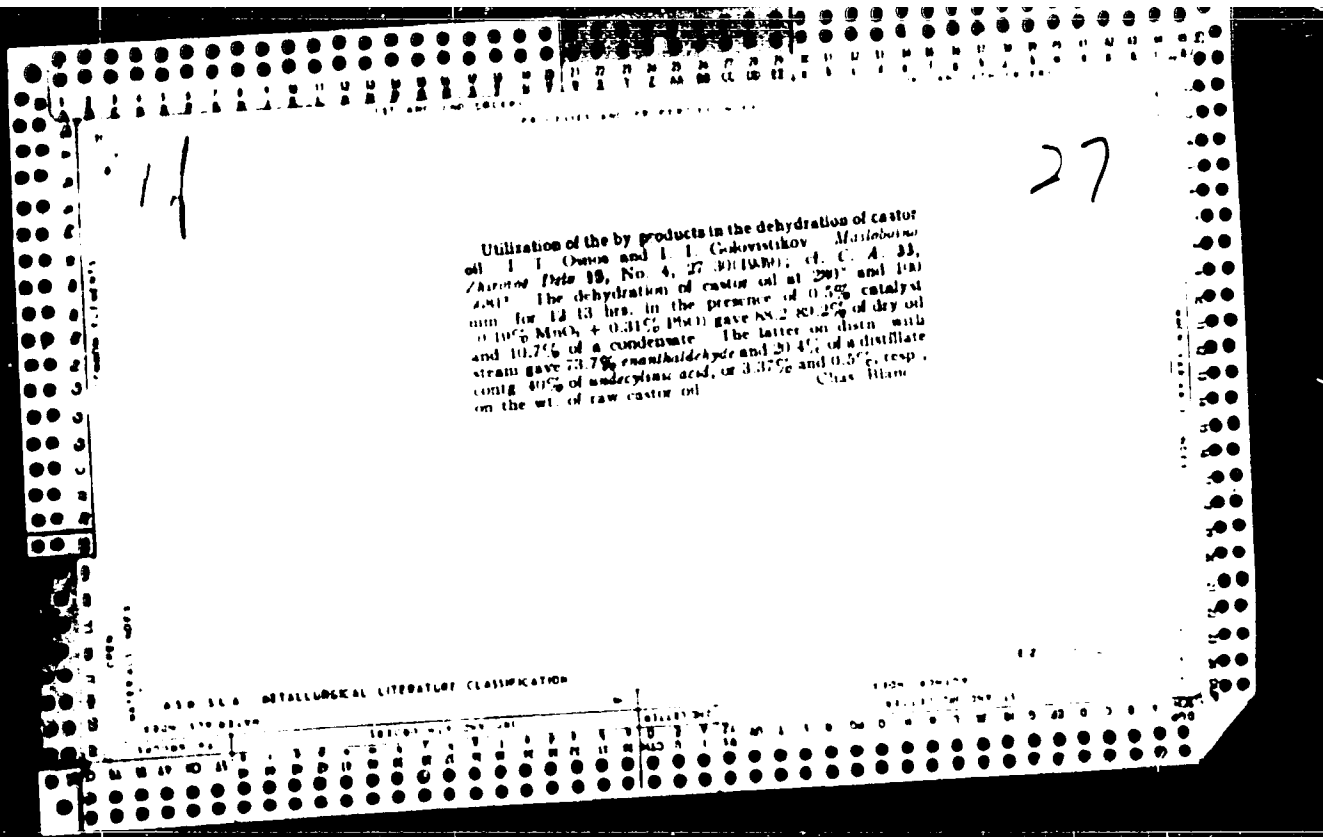


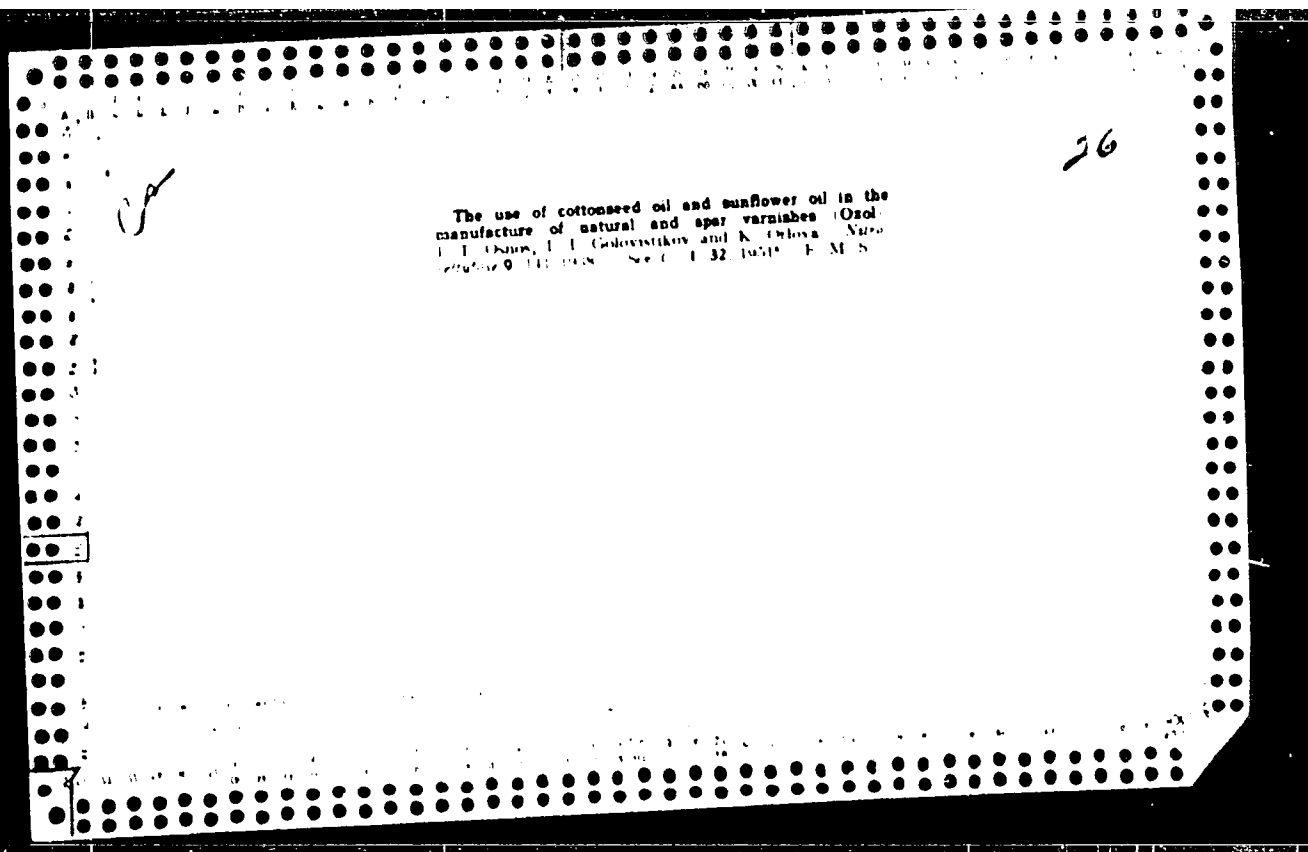


17

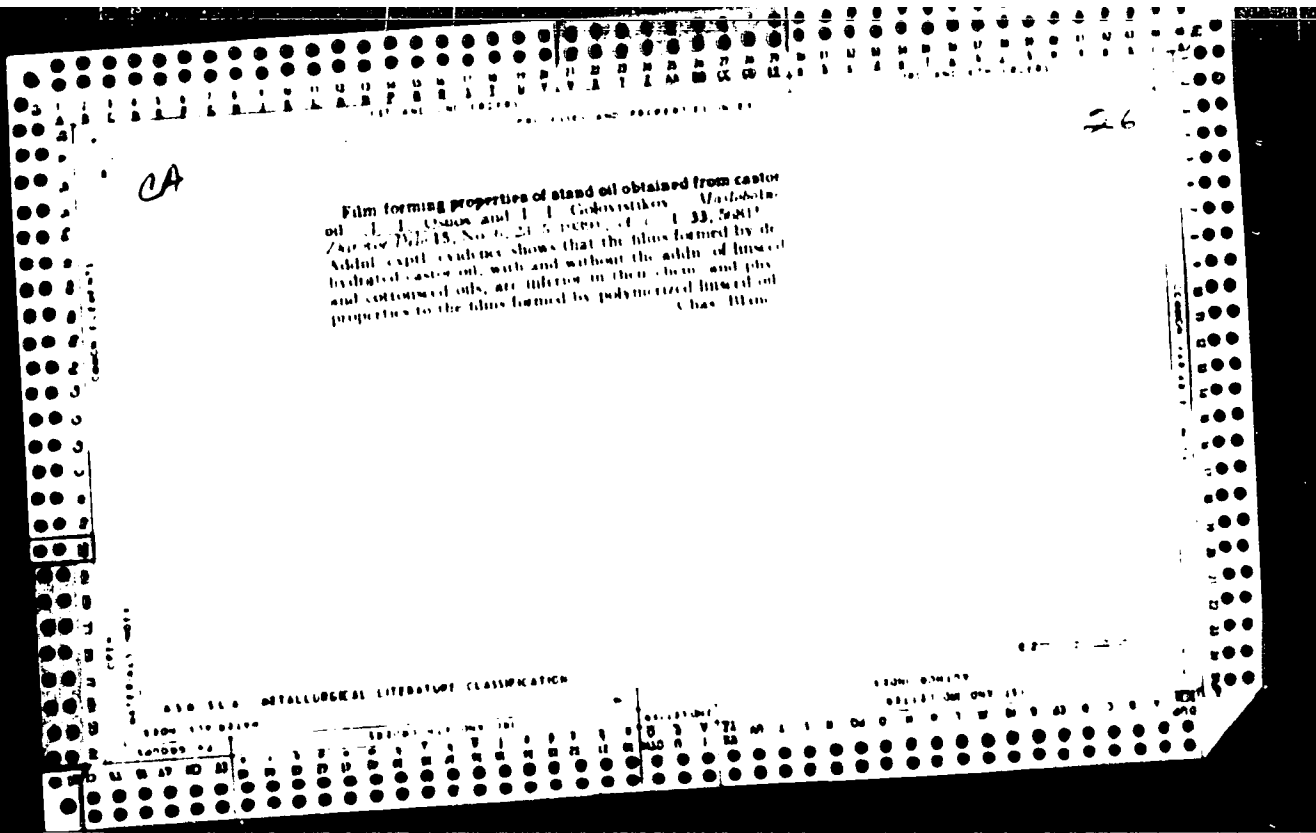
The dehydration of castor oil with recovery and use of the volatile products. I. T. Oms and I. I. Golovastikov

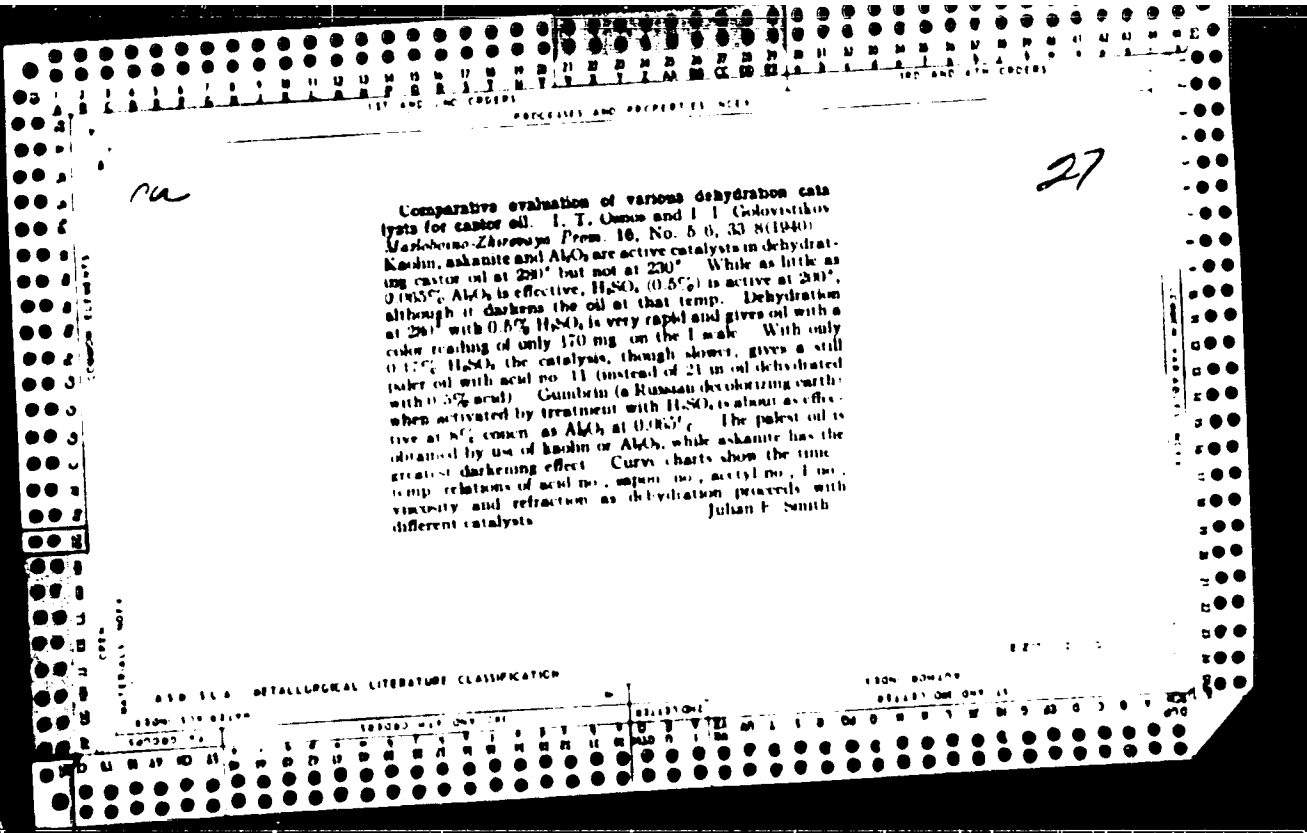
J. Chem. Ind. (U. S. S. R.) 18, No. 22, 11 10(1941).--  
When castor oil is heated at 200° and 50 mm., dehydration is somewhat increased but thermal decomposition is also increased and some of the H<sub>2</sub>O formed hydrolyzes the fat and increases the glycerol content in the product. Hence, for dehydration, pressures of 0.007-0.01 mm. are better. The proportions of the volatile products vary with the temp. and duration of heating. C<sub>18</sub>H<sub>34</sub>O should be removed as fast as it forms, since it slows the rate of dehydration. Acrolein must be caught on activated adsorbents, but most of the other products can be condensed by H<sub>2</sub>O cooling. Uses for the products are discussed.  
H. M. Leicester

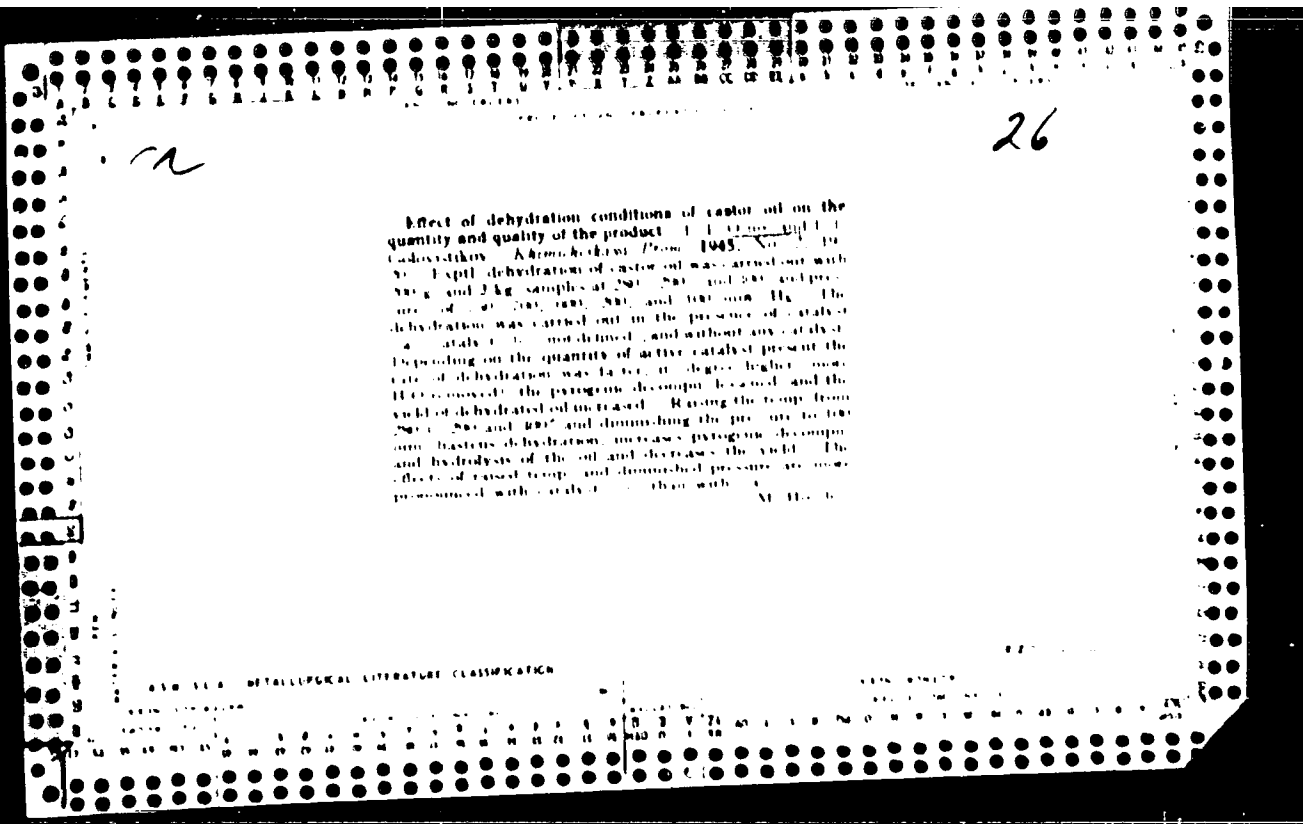


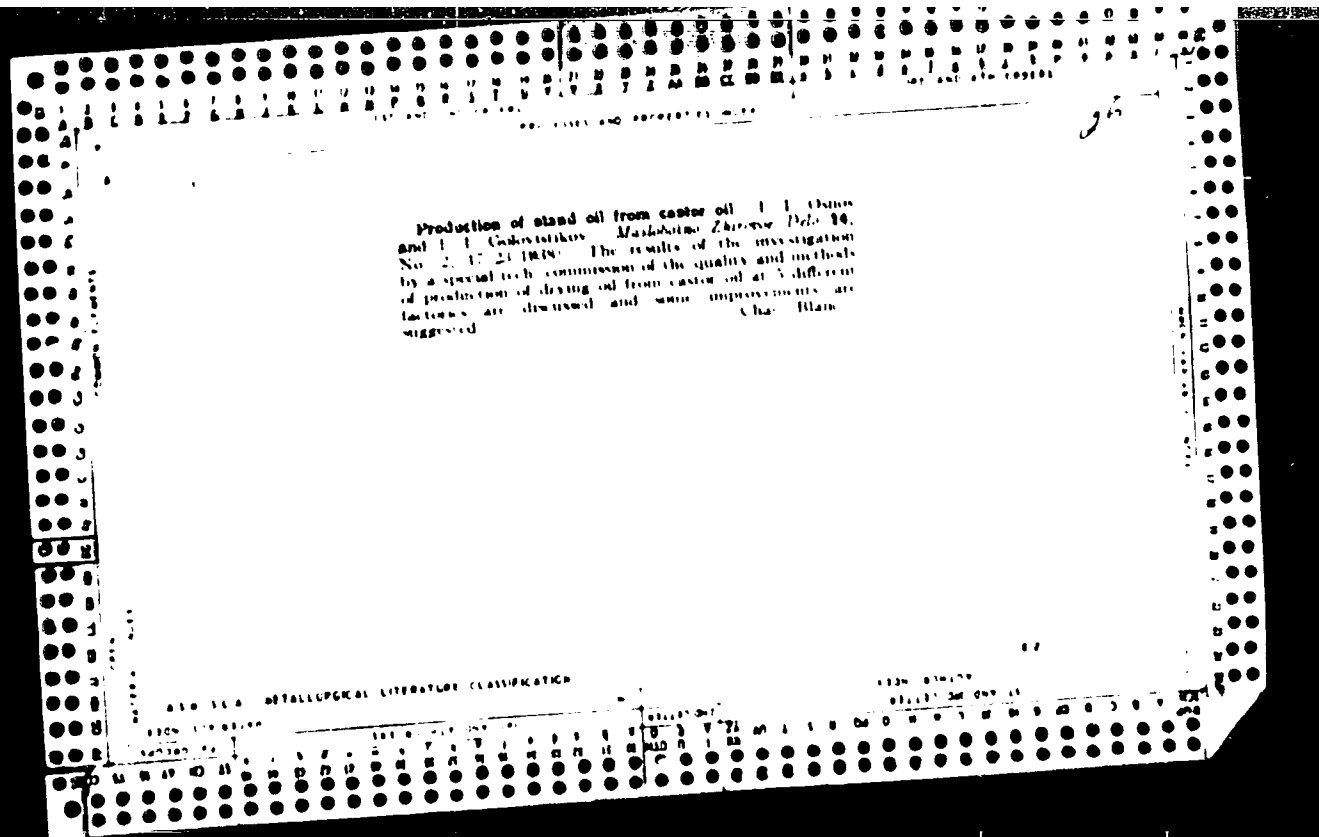


Production of linseed oil suitable for house paint preparation  
The authors, I. Gulyas and K. Ondrej, reported in *Chem. Abstr.* 14, 5, 1918 (1919) that the results in removing the mucous ingredients and bleaching degree vary with the origin and methods of extraction of oil. The treatment with bleaching clays (bentonite, kaolin, talc, etc.) of Dorn and Malec (1914) and of M. S. G. (1915) tends to remove the mucous ingredients but gives poor bleaching effect. Activated charcoal gives good bleaching effect but does not remove the mucous substances. The oxidation with  $H_2O_2$  also failed to remove the mucous ingredients. The best results are obtained by treating raw oil with 2% of  $H_2O_2$  in a clear solution, for 30 to 40 min., then neutralizing with 1% of the oil weight of  $NaOH$  at 40 to 50°C. for 10 min., and finally bleaching as usual with 2% of the oil weight of bleaching clay. The bleaching effect can be improved by adding activated charcoal to the clay. The procedure can be modified depending on the nature of the raw oil.

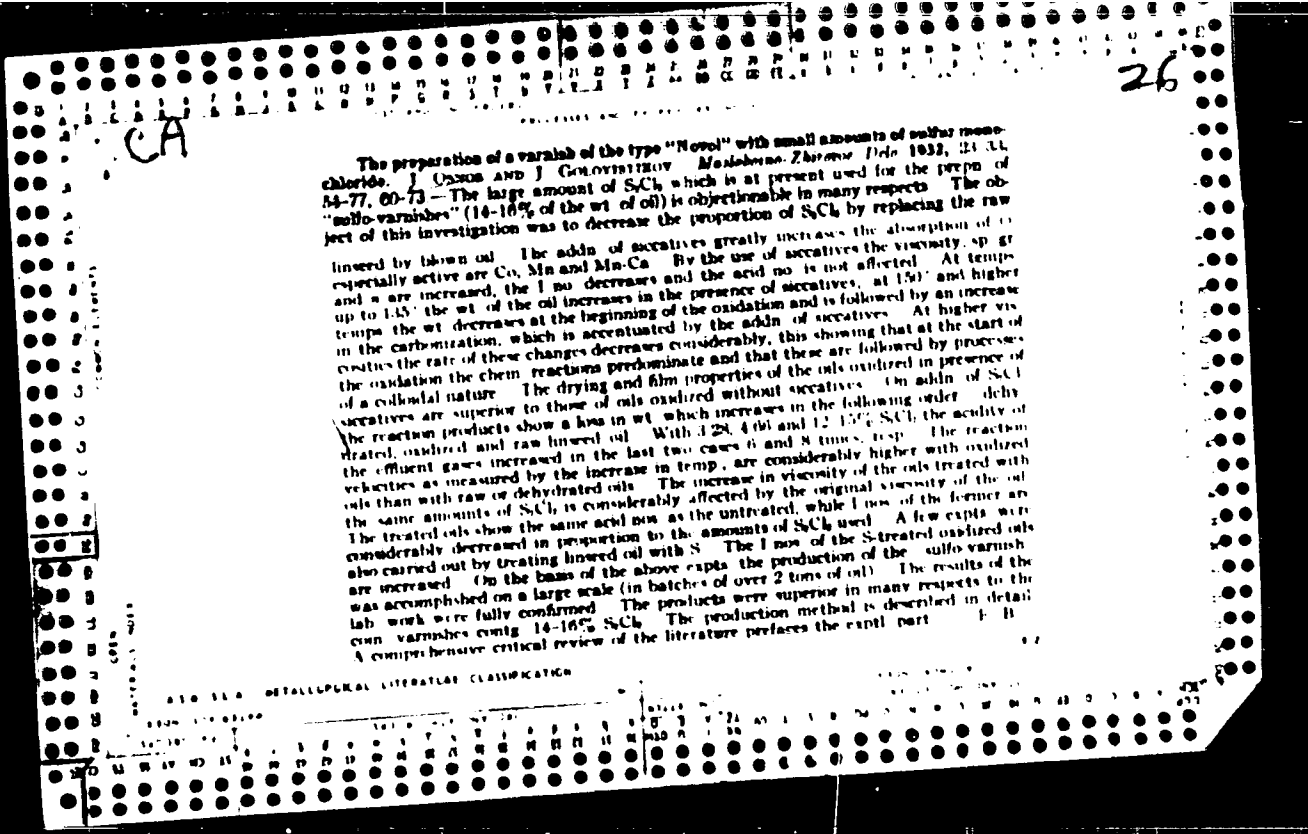












OS NOS, b.T.

Commercial cottonseed-tung drying oil (mixture). I.I.  
Canga and M. S. Ilina. *Khimicheskiy Zhurnal* *Prilozhenie*, 20,  
No. 4, 12-18 (1953).—A drying oil with good film-forming  
power for use in red-ocher and ZnO paints is prepd. by heating  
to desired viscosity at 200-220° an oil base contg. 70% of  
cottonseed oil which has been air oxidized at 140-150°, de-  
hydrated and polymerized at 260° + 30% of oxidized tung  
oil. Vladimir N. Krukovsky.

Handwritten notes: "may" and "10-11-54"

CHERNOV, V.I., dotsent; OSKOS, M.L., dotsent; MELAMUD, M.Ya.;  
YANKELEVICH, Ya.Kh.

Dispanseries in the control of cardiovascular diseases in the  
city of Lvov. Nauch.trudy L'vov.obl.terap.ob-va no.1:10-15 '61.  
(MIRA 16:5)

1. L'vovskiy gorodskoy otdel zdravookhraneniya (zav. otdelom -  
Ya.I. Skibel').

(LVOV--HOSPITALS--OUTPATIENT SERVICES)  
(LVOV--CARDIOVASCULAR SYSTEM--DISEASES)

MONASTYRSKIY, R.Ya (L'vov); OSNOS, M.L., dotsent (L'vov); MELAMUD, M.Ya.  
(L'vov); YANKELEVICH, Ya.Kh. (L'vov); SIROMAKHA, G.M. (L'vov)  
KOPEL'MAN, Ye.Sh. (L'vov); KRASNOVA, S.B. (L'vov); BANAKH, R.D.  
(L'vov)

Organization of rheumatic fever control. Klin. med. 40 no.11:  
89-93 N°62 (MIRA 16:12)

1. Iz L'vovskogo oblastnogo otdela zdravookhraneniya (zav. -  
R.Ya. Manastyrskiy).

MONASTYRSKIY, R.Ya.; CHERNOV, V.I., dotsent; OSKOS, M.L., dotsent;  
ROZANOV, Ye.M.

Further qualitative improvement of medical aid to cardiovascular  
patients in Lvov Province. Nauch.trudy L'vov.obl.terap. ob-va  
no.1:5-9 '61. (MIRA 16:5)  
(LVOV PROVINCE—CARDIOVASCULAR SYSTEM—DISEASES)

MANASTYRSKIY, R.Ya.; CHERNOV, V.I.; STUKALO, I.T.; OSKOS, M.L.; MELAMUD, M.Ya.  
(L'vov)

Certification for specialists in internal medicine. Vrach.delo no.7:  
735 J1 '59. (MIRA 12:12)  
(LVOV PROVINCE--MEDICINE--LAWS AND LEGISLATION)

OSNOS, Ye.M.

New method of preparing the hands for surgery and sterilization  
of suture material and rubber gloves with a diocide solution.  
Khirurgia 36 no. 5:124-129 My '60. (MIRA 14:1)  
(ANTISEPTICS) (SURGERY, OPERATIVE)

OSNOVICH, L.D.

Contactless transistor relay. Izv. vys. ucheb. zav.;  
elektromekh. 4 no. 1:83-89 '61.

(MIRA 14:4)

(Electric relays)



OSNOVICH, I.D., inzh.

Problem concerning the determination of dependent initial conditions  
in the calculation of transients in linear networks. Izv. vys.  
ucheb. zav.: energ. 4 no.11:25-28 W '61. (MIRA 10:12)

1. Novosibirskiy elektrotekhnicheskiy institut. Predstavlena  
kafedroy teoreticheskikh osnov elektrotekhniki.  
(Electric networks)

OSNOVICH, L.D., inzh.; SHOR, A.M., inzh.

Capacitance in asymmetrical system of cylinders with alternating  
polarity. Izv. vys. ucheb. zav.; energ. 6 no.2:35-41 F '63.  
(MIRA 16:3)

1. Novosibirskiy elektrotekhnicheskiy institut. Predstavlena  
kafedroy teoreticheskikh osnov elektrotekhniki.  
(Electric machinery) (Magnetic circuits)

OSNOVICH, Leonid Davidovich, starshiy prepodavatel'

Leakage coefficient and optimum width of polar caps in d.c. machines with printed armature windings. Izv. vys. ucheb. zav.; elektromekh. 6 no.5:576-581 '63. (MIRA 16:9)

1. Kafedra teoreticheskikh osnov elektrotehniki Novosibirskogo elektrotekhnicheskogo instituta.  
(Electric machinery--Direct current)

OSNOVICH, Leonid Davidovich, starshiy prepodavatel'; KAZANSKIY, Vasily  
Mikhaylovich, kand.tekhn.nauk, dotsent

Losses and eddy currents in the rotor windings of d.c. machines  
with printed windings. Izv. vys. ucheb. zav.; elektromekh. 6  
no.6:676-682 '63. (MIRA 16:9)

1. Kafedra teoreticheskikh osnov elektrotekhniki Novosibirskogo  
elektrotekhnicheskogo instituta (for Osnovich). 2. Zaveduyushchiy  
kafedroy teoreticheskikh osnov elektrotekhniki Novosibirskogo  
elektrotekhnicheskogo instituta (for Kazanskiy).  
(Electric machinery--Direct current)

OSNOVICH, Leonid Davidovich, starshiy prepodavatel'

Calculation of magnetic excitation field in the interpole gap of a  
d.c. machine with printed rotor winding. Izv. vys. ucheb. zav.:  
elektromekh. 6 no.11:1167-1174 '63. (MIRA 17:4)

1. Kafedra teoreticheskikh osnov elektrotehniki Novosibirskogo  
elektrotekhnicheskogo instituta.

OSNOVICH, L.D., kand. tekhn. nauk; OSNOVICH, Z.A., inzh.

Calculation of a cylindrical armature with printed winding of  
a d.c. motor. Elektrotehnika 35 no.6:42-46 Je 194.  
(MIRA 1718)

KAZANSKIY, Vasilii Mikhaylovich; OSNOVICH, Leonid Davidovich;  
~~SECRET~~ Yu.M., red.

[Low-torque d.c. motors with printed armature windings]  
Maloinertsionnye elektrodvigateli postoiannogo toka s  
pachatnoi obmotkoi na yakore. Moskva, Energiia, 1965.  
95 p. (Biblioteka po avtomatike, no.142) (MIRA 18:8)

L 26077-66 EWT(1)

ACC NR: AN5026857

Monograph

UR/

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R0012

Kazanskiy, Vasilii Mikhaylovich; Osnovich, Leonid Davidovich

Quick-response direct current electric motors with printed armature  
windings (Maloinertsionnyye elektrodvigateli postoyannogo toka  
s pachatnoy obmotkoy na yakore) Moscow, Izd-vo "Energiya," 1965.  
95 p. illus., biblio. 8200 copies printed.

Series note: Biblioteka po avtomatike, vyp. 142

TOPIC TAGS: electric motor, armature, magnetic circuit, printed  
circuit, electric rotating equipment

PURPOSE AND COVERAGE: This booklet is intended for engineers and  
technicians concerned with the design and operation of automatic  
systems and servomotors. The book deals with problems of design  
and calculation of d-c, low-inertia motors with printed-circuit  
armatures. The peculiarities of some magnetic processes in this  
type of motor and problems of high-speed operation are discussed.  
The technology of printing processes used in the rotor production  
is briefly presented.

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ACC NR: AH5026857

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AVAILABLE: Library of Congress

SUB CODE: 09/ SUBM DATE: 01Jun65/ ORIG REF: 042/ OTH REF: 019

Card 313 CC

L 05711-67

ACC NR: AR6010523

SOURCE CODE: UR/0196/65/000/010/1007/1007

AUTHOR: Shor, A. M.; Kazanskly, V. M.; Osnovich, L. D.

Z  
B

TITLE: Selection of the optimal width of an active conductor of a disk printed armature

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 10146

REF SOURCE: Izv. Tomskogo politekh. in-ta, v. 132, 1965, 93-98

TOPIC TAGS: printed circuit, conductor, armature

ABSTRACT: A method is presented for the selection of the optimal width of an active conductor of a disk printed armature. The optimal width is determined from the conditions of the minimum electromechanical time constant and the minimum electrical losses in the armature winding. A definition is made of the degree of the influence of the active conductor width deviation from the optimal on the inertial and thermal qualities of the machine. A definitive solution is made on the basis of a quality comparison. In most cases the dominant influence is exerted by the inertia optimum. [Translation of abstract] Bibliography of 6 titles. G. Salgus

SUB CODE: 12, 09

Card 1/1

UDC: 621.3045.21.001.24:621.3.049.75

OSNOVICH, L.D., kand. tekhn. nauk; OSNOVICH, Z.A., inzh.

Calculation of a cylindrical armature with printed winding of  
a d.c. motor. Elektrotehnika 35 no. 6: 12-14. June 1964.

(MIRA 138)

OSHOVICH, Z.A.

Basic stages of the development of the industrial electrical drive.  
Trudy MEI no.29:87-100 '57. (MIRA 13:3)  
(Electric driving)

ACC NR: AR6029469

SOURCE CODE: UR/0196/66/000/006/I010/I010

25

AUTHOR: Osnovich, Z. A.

TITLE: Optimum pole arc-over coefficient and saturation coefficient of printed cylindrical armature dc machines

SOURCE: Ref. zh. Elektronika i energetika, Abs. 6I60

REF SOURCE: Sb. dokl. k Nauchno-tekhn. konferentsii po elektr. mashinam s pechatn. obmotkami. Novosibirsk, 1965, 41-47

TOPIC TAGS: electric rotating equipment, electric motor, electric generator

ABSTRACT: Analytical and graphic expressions are derived for calculating the optimum values of pole arc-over ( $\alpha_p$ ) and machine saturation ( $K_m$ ) coefficients assuring a maximum value of average induction in the air-gap of dc machines with printed cylindrical armatures. An analysis of the expressions has shown that  $\alpha_p = 0.8 - 0.85$  and  $K_m = 0.9$ . [Translation of abstract] 6 illustrations. N. Astakhov

SUB CODE: 09

Card

112 20/2

UDC: 621.313.2.001.24

L 08585-67

ACC NR: ARG029470

SOURCE CODE: UR/0198/66/000/006/1010/1010

38

AUTHOR: Osnovich, Z. A.

TITLE: An electromagnetic method for the design of the DC motor with a cylindrical printed armature and electromagnetic excitation

SOURCE: Ref. zh. Elektronika i energetika, Abs. 6161

REF SOURCE: Sb. dokl. k Nauchno-tokhn. konferentsii po elektr. mashinam s pochatn. obmotkami. Novosibirsk, 1965, 48-55

TOPIC TAGS: electric motor, electromagnetic effect, excitation energy

ABSTRACT: The proposed design method gives all dimensions for the motor with minimum losses in its armature and maximum induction in its air gap. The power  $P_{II}$ , voltage  $U_{II}$ , and the speed of rotation  $n_{II}$  are specified. Continuous motor operation is required. The following parameters are initially selected: emf in the armature,  $E_a \approx 0.9U_{II}$ ; efficiency (excluding the excitation losses),  $\eta \approx 0.8$ ; and the current density in the armature,  $i_a = 2500 - 3000 \text{ amp/cm}^2$  for a self-ventilating motor, and  $i_a = 3000 - 4000 \text{ amp/cm}^2$  for a motor with forced ventilation. A simple wave winding is selected with the number of poles equal to  $2p = 4$ . The armature diameter is initially determined from the curve of  $D_a = f(P_{II}/n_{II})$ . After calculating the pole

Card 1/2

UDC: 621.313.13.024.001.24

L 08585-67

ACC NR: AR6029470

arch and leakage the average air-gap induction is established. The number of armature conductors for the selected  $D_a$  is determined by considering the known current density and the photochemical method of printed conductor production. Then, the dimensions of the poles and the stator are calculated by the usual methods. The magnetic circuit is computed next. The excitation winding current density of  $i_e = 250 \text{ amp/cm}^2$  is assumed during its design. In the calculation of the motor efficiency the mechanical losses are assumed to be  $(0.01-0.02)P_H$ .  
[Translation of abstract] 4 illustrations. N. Astakhov

SUB CODE: 10

ns  
Card 2/2

OSHOVNIKOV, G.

Putting grain receiving stations and flour mills under the same  
management. Muk.-elev. prem. 24 no.7:15-17 J1 '58. (MIRA 11:10)

1. Altayskoye krayevoye upravleniye khleboproduktev.  
(Altai Territory--Grain trade)



OSHOVIKOV, G.

Some problems in planning construction work. Muk.-elev.prom.22 no.7:  
31-32 J1 '56. (MIRA 9:9)

1. Altayskaya krayevaya kontera Zagetzerne.  
(Grain elevators)

YAKIMOVICH, V., inzh.; MAGONIN, P.; SHELEST, S.; OSNOVIKOV, G.; KALACHEV,  
O., inzh.; DOKTORMAN, M.; ZHITYAYEV, S.; PARBER, A., inzh.

Suggestions of efficiency operators introduced at grain procurement  
stations and grain-milling enterprises. Muk.-elev. prom. 25 no.4:23-29  
Ap '59. (MIRA 13:1)

1. Ministerstvo khleboproduktov Kazakhskoy SSSR (for Yakimovich).
  2. Chelyabinskoye upravleniye khleboproduktov (for Magonin).
  3. Glavnyy inzhener Novomoskovskogo zavoda po obrabotke semyan  
kukuruzy (for Shelest).
  4. Altayskoye upravleniye khleboproduktov (for  
Osnovikov).
  5. Ministerstvo khleboproduktov BSSR (for Kalachev).
  6. Luganskoye upravleniye khleboproduktov (for Doktorman).
  7. Kuybyshevskoye  
upravleniye khleboproduktov (for Zhityayev).
- (Grain elevators) (Grain milling)

OSEVOIKOV, G.

Building grain procurement stations on virgin lands. Muk.-elev.prom.  
22 no.3:14-15 Mr '56. (MIRA 9:7)

1. Zamestitel' upravlyayushchego Altayskoy kontoroy Zagotserno.  
(Altai Territory--Granaries)

OSNOVNIKOV, G.

Experience in operating MUKZ-35 feed mills in the Altai Territory.  
Muk.-elev. prom. 25 no.8:21-22 Ag '59.

(MIRA 13:1)

1. Altayskoye upravleniye khleboproduktov.  
(Altai Territory--Feed mills)

SOV 124-57-5-5268

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 22 (USSR)

AUTHOR: Osnovin, S. D.

TITLE: Methods and Formulae for the Calculation of Concentrated Explosive Charges (Metody i formuly dlya rascheta sosredotochennykh zaryadov)

PERIODICAL: Izv. Tomskogo politekhn. in-ta, 1956, Vol 87, pp 70-83

ABSTRACT: The author makes a comparison of a number of methods of calculating explosive charges used for the blasting of rocky soils. The paper is in the nature of a review, but fails to cover fully even the most important known material. It does not, for example, contain any references whatsoever to the voluminous foreign literature on the subject with which it is concerned.

G. I. Pokrovskiy

Card 1-1

OSNOVIN, S.D.

New method of calculating elongated charges for limited throwing and charges for loosening. Izv.TPI 93:72-86 '58.  
(MIRA 13:5)

(Mining engineering) (Explosives)

1. OSNOVIN, S. D., Docent
2. USSR (600)
4. Strip Mining
7. Basic mining terminology and classification in strip mining.  
Ugol' 27 No. 12, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

1. 10450-67 EWT(m)/EWT(w)/EWT(l)/ETI LJP(c) JD/JQ  
ACC NO: AP6022509 SOURCE CODE: UR/0133/66/000/004/0355/0358

AUTHORS: Vinograd, M. I.; Gnuchev, S. M.; Gromova, G. P.; Smirnova, A. V.; Ryl'nikova, A. G.; Osnovin, V. A.; Krasnova, A. K.; Likhova, I. V.; Yegorshina, T. V.

ORG: none

TITLE: Nonmetallic inclusions in melts of steel O8Kh20N10G6 exhibiting different hot technological plasticity

SOURCE: Stal', no. 4, 1966, 355-358

TOPIC TAGS: alloy steel, metallurgic research, aluminum, cerium / O8Kh20N10G6 alloy steel

ABSTRACT: The effect of aluminum and rare earth elements (mainly cerium) on the technological plasticity of steel O8Kh20N10G6 was investigated. The investigation supplements the results of V. A. Osnovin and S. M. Gnuchev (Byulleten' TsIINChM, 1964, No. 6). The microstructure and twisting strength of the specimens was determined as a function of the temperature and nature of the reducing agent (see Fig. 1). It was found that addition of 1.5--2.0 kg/ton of Al and rare earth metals (0.15--2.0% on the basis of Co) to steel O8Kh20N10G6 leads to a considerable increase in the high temperature plasticity of the latter. S. B. Lebedeva, I. A. Prokof'yeva, and L. I. Volkova participated in the experimental work.

UDC: 669.15:658.562

Cord 1/2



L 10450-67

ACC NR. AF6022509

2

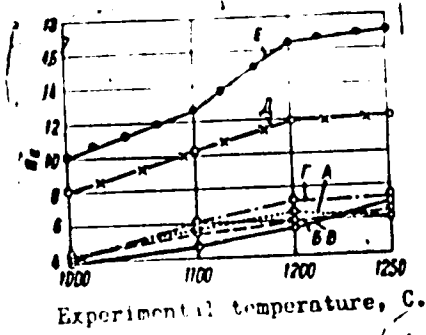


Fig. 1. Results of torsion tests at high temperatures (nk - number of revolutions at which failure occurred) of different melts A - E. Specimen A reduced in the usual way. All others reduced as described above.

Orig. art. has 1 graph and 6 photographs.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 009

670

OSHOVINA-LONOVITSKAYA, A.D.; GOFMAN, Yu. I.

Diagnostic significance of D. I. Fin'ko's color reaction of bile  
in liver diseases. Lab. delo 5 no.1:13-17 Ja-P '59. (MIRA 12:3)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. D.D. Yablokov)  
Tomskogo meditsinskogo instituta.  
(BILE) (LIVER--DISEASES--DIAGNOSIS)

OSNOVICH, Leonid Davidovich, starshiy prepaodavatel'

Transistor noncontact relay. Izv.vys.ucheb.zav.; elektromekh. 5  
no.1:74-82 '62. (MIRA 15:2)

1. Kafedra teoreticheskikh osnov elektrotekhniki Novosibirskogo  
alektrótekhnicheskogo instituta.  
(Electric relays)

39662

S/144/61/000/001/002/004  
E194/E484

9.2140(1135,1150,1325)

AUTHOR: Osnovich, L.D.

TITLE: A Contactless Relay Based on Semiconductor Triodes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika  
1961, No.1, pp.83-89

TEXT: In recent years considerable successes have been achieved in the manufacture of large semiconductor triodes and this affords the possibility of making extensive use of them in power application, and in particular semiconductor triodes operating under switching conditions are promising for use as contactless relays and switches. This article describes the circuit of a heavy current contactless relay based on semiconductor triodes and studies the influence of the circuit parameters on its characteristics and gives the procedure for calculating and selecting these parameters. A circuit of the relay is given in Fig.1. This is an asymmetrical trigger circuit based on two semiconductor triodes connected in circuit with a common emitter. The resistance  $R_{H2}$  is a load resistance which connects the relay and so the relay itself does not enter directly into the circuit.

Card 1/5

69482

S/144/61/000/001/002/004

E194/E484

A Contactless Relay ...

The article shows that the resistance  $R_{H1}$  is considerably greater than  $R_{H2}$  and consequently the collector current of the input triode  $T_1$  is considerably less than that of the output triode. The voltage of the emitter collector input triode does not exceed the voltage of the emitter base of the output triode. Consequently, the output triode may be selected for low current and voltage, which is an important advantage of this circuit compared with the symmetrical trigger circuit. For this reason on disconnecting the load (the output triode is shut) the circuit requires considerably less power than when connecting the load, which is also an advantage over the symmetrical trigger circuit. The article also shows that by appropriate selection of parameters the relay may be provided with self return or may be made without it. The fundamental equations of the relay circuit are then formulated and for selection of the circuit parameters the two limiting conditions are considered, one with the output triode open and the input triode shut and the other with the output triode shut and the input triode open. Voltage and current expressions are derived for these cases. The influence of the resistances  $R_{oc}$

Card: 2/5

89682

S/144/61/000/001/002/004  
E174/2484

A Contactless Relay ...

and  $R_y$  on the operation of the relay is considered on the basis of the input characteristic, an equation for which is derived, and the input characteristic is plotted in Fig.3. This graph also includes the load characteristic of the circuit. A special feature of the circuit is the presence of sharp transitions between the stable and unstable parts of the input characteristics. Expressions are then derived for the conditions under which the relay opens and closes and finally a procedure is proposed for calculation of the input characteristic according to a certain sequence. In order to prevent overheating of the triode, it may be necessary to provide cooling, for example by radiators. Usually, however, the input triode requires no special cooling as it takes much less power than the output triode. There are 4 figures and 4 Soviet references.

ASSOCIATION: Kafedra teoreticheskikh osnov elektrotekhniki  
Novosibirskiy elektrotekhnicheskiy institut  
(Department for Basic Theory of Electrical  
Engineering, Novosibirsk Electrotechnical Institute)

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Card 3/5

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Novosibirskogo elektrotekhnicheskogo instituta.  
(Electric machinery---Direct current)

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gornyy inzhener; GROZIN, V.M., gornyy inzhener; OSNOVSEIY, I.V.,  
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Vinnitskogo meditsinskogo instituta na baze Vinnitskoy oblastnoy

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