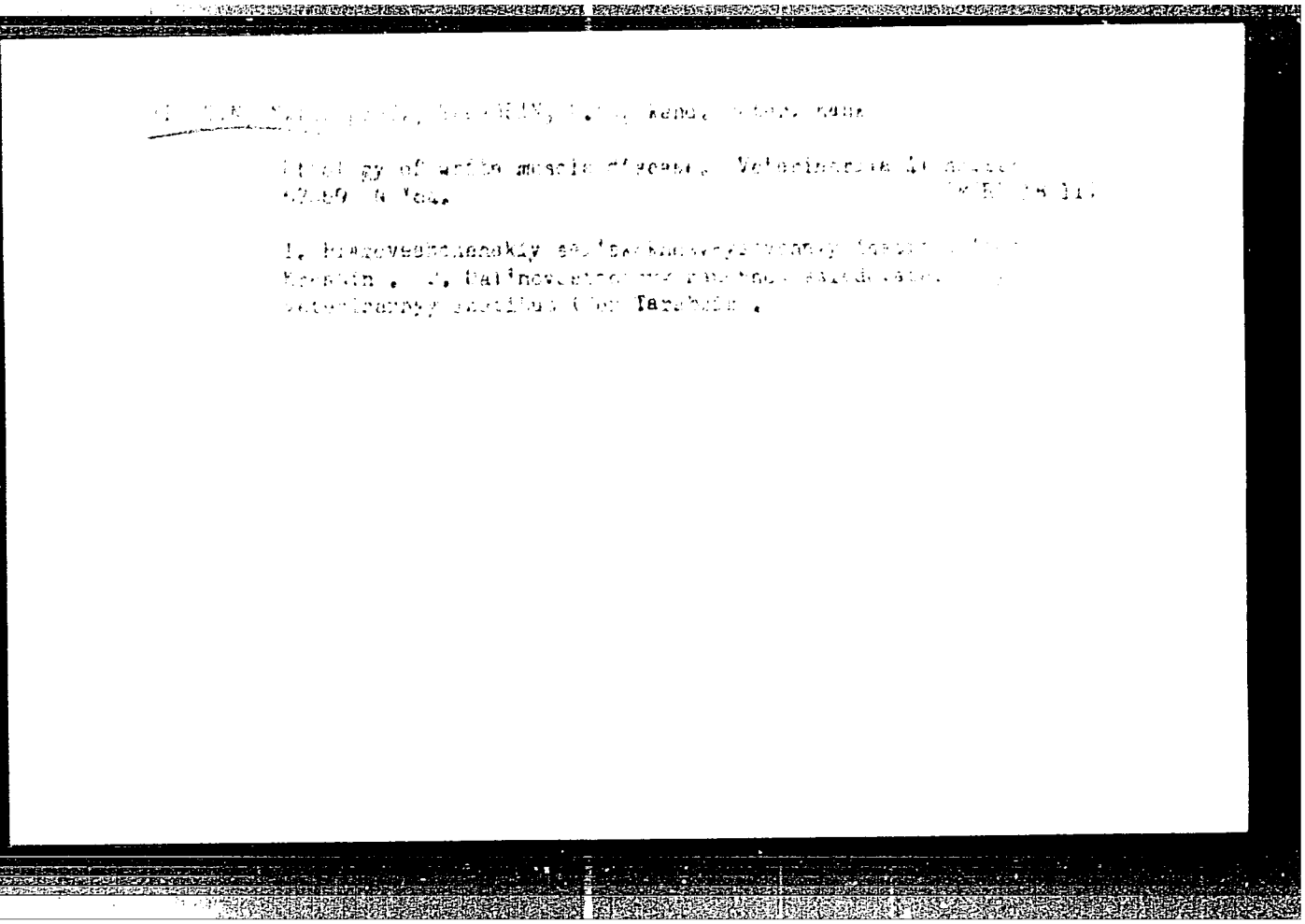
KRASTIN, N. I., (Doctor of Veterinary Science, Director of the Far East Scientific Research Veterinary Institute)

"Letter to the Editorial Office"
Veterinariya, vol. 39, no. 6, June 1962 pp. 38

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826220



KRASTINA, A.

Ethnographers' work in the Scientific Expedition in Valka District, 1958. Vestis Latv ak no.4:189-196 '60. (KEAI 10:7)
(Latvia--Ethnology)

KRASTINA, E. M.

29315 Retsidivy raka sheyki matki. (Po materialam Ukr. rentgeno-radiol. i onkol. in-ta za 1943-46 g.) Voprosy onkologii i rentgenologii, No 1-2, 1948, s. 160-72

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

[illegible]

Uterus

Treatment of precancerous conditions of the cervix uteri. Sov. med. 16, no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. [illegible]

KRASTINA, E.M., kandidat meditsinskikh nauk

Case of vaginal cancer in pregnancy. Vest.rent. i rad. no.3:101-102 My-Je '55. (MLRA 8:10)

1. Iz ginekologicheskoy kliniki (zav.dotsent S.I.Pavlenko) Ukrainskogo tsentral'nogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir. dotsent Ye.A. Bazlov)

(PREGNANCY, complications, cancer of vagina)
(VAGINA, neoplasms, in pregn.)

Krastina, E. M.

IL'YEVICH, A.I.; KANTOROVICH, M.A.; KRASTINA, E.M.; RAPOPORT, B.I.

Analgesia in cancer. Vop. onk. 2 no.1:66-71 '56 (MIRA 9:4)

1. Iz Ukrainskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir.-dotsent Ye.A. Bazlov)
(NEOPLASMS
pain in incurable cases, analgesia)
(ANALGESIA
in incurable cancer)

KRASTINA, E.M. (Khar'kov, Pushkinskaya ul. 83); BERKMAN, G.I. (Khar'kov, Pushkinskaya ul. 83)

Clinical and laboratory (cytological) diagnosis of cancer of the uterine body [with summary in English] Vop.onk. 2 no.3:349-351 '56. (MLRA 9:10)

1. Iz Ukrainskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir. - dotsent Ye.A.Baslov)
(UTERUS NEOPLASMS, diag.
cytol. & histol.)

RAPAPORT, B.I.; IL'EVICH, A.I.; KRASTINA, E.M. (Khar'kov)

Extrafocal radiotherapy for sympathetic pains in cancer.
Klin.med. 34 no.8:63-64 Ag '56. (MIRA 12:8)

1. Iz Ukrainskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir. - dotsent Ye.A.Bazlov).
(NEOPLASMS, ther.
radiother. in extrafocal synd.)

KRASTINA, Ye.M.; MISHENINA, K.G. [Mishenina, K.H.]

Bladder and rectal complications in treating cervical cancer with radioactive coblat. Ped., akush. i gin. 20 no.4:62-63 '58. (MIRA 13:1)

1. Ginekologicheskaya klinika (zav. - dots. S.I. Pavlenko) Instituta meditsinskoy radiologii (direktor - dots. Ye.O. Bazlov).
(UTERUS--CANCER) (COBALT--ISOTOPES)

PAVLENKO, S.I.; NOSALEVICH, O.M.; KRASTINA, Yo.M.

Use of radioactive colloidal gold in the treatment of cancer of the cervix uteri. Med. rad. 5 no.4:15-19 Ap '60. (MIRA 13:12)
(UTERUS--CANCER) (GOLD--ISOTOPES)

PAVLENKO, S.I.; NOSALEVICH, O.M.; KRASTINA, Ye.M.

Experience in the use of the radioactive isotopes Au^{198} and P^{32} in treating cancer of the endometrium. Vop. onk. 6 no. 10:51-54 O '60. (MIRA 14:1)

(GOLD--ISOTOPES) (PHOSPHORUS--ISOTOPES)
(ENDOMETRIUM--CANCER)

KRASTINA, E. M.

Use of cobalt beads (Co^{60}) in treating cancer of the corpus uteri. Vop. onk. 8 no.2:72-76 '62. (MIRA 15:2)

1. Iz ginekologicheskogo otdeleniya (zav. - d-r med. nauk, prof. S. I. Pavlenko) Khar'kovskogo instituta meditsinskoy radiologii (dir. - dots. V. I. Shantyr')

(UTERUS—CANCER) (COBALT—ISOTOPES)

PAVLENKO, S.I.; KRASTINA, E.M.

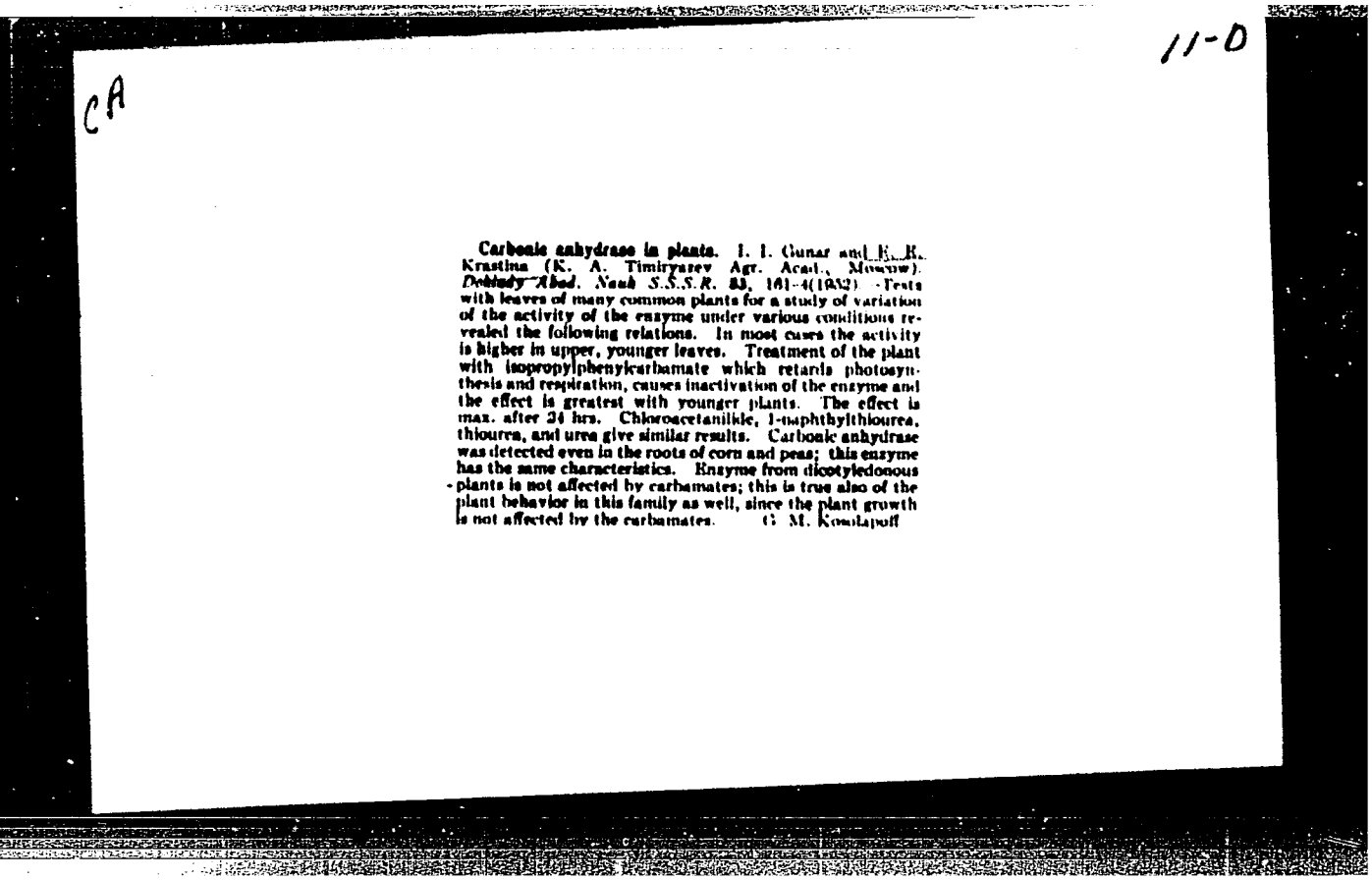
Complications in the treatment of cancer of the cervix uteri with Au^{198}. Med. rad. 9 no.1:28-33 Ja '64. (MIRA 17:9)

1. Ginekologicheskaya klinika (zav. - doktor med. nauk S.I. Pavlenko) Khar'kovskogo instituta meditsinskoy radiologii.

KIREYEVA, K.I.; KRASTINA, N.N.; SERGOVA, M.I., LEVTSOVA, V.I.; MAL'TSEVA, T.Ye.

Epidemiology of whooping cough in Vladivostok and the results of observations on the effect of whooping cough and diphtheria vaccine. Trudy VladIEMG no.2:158-162 '62. (MIRA 18:3)

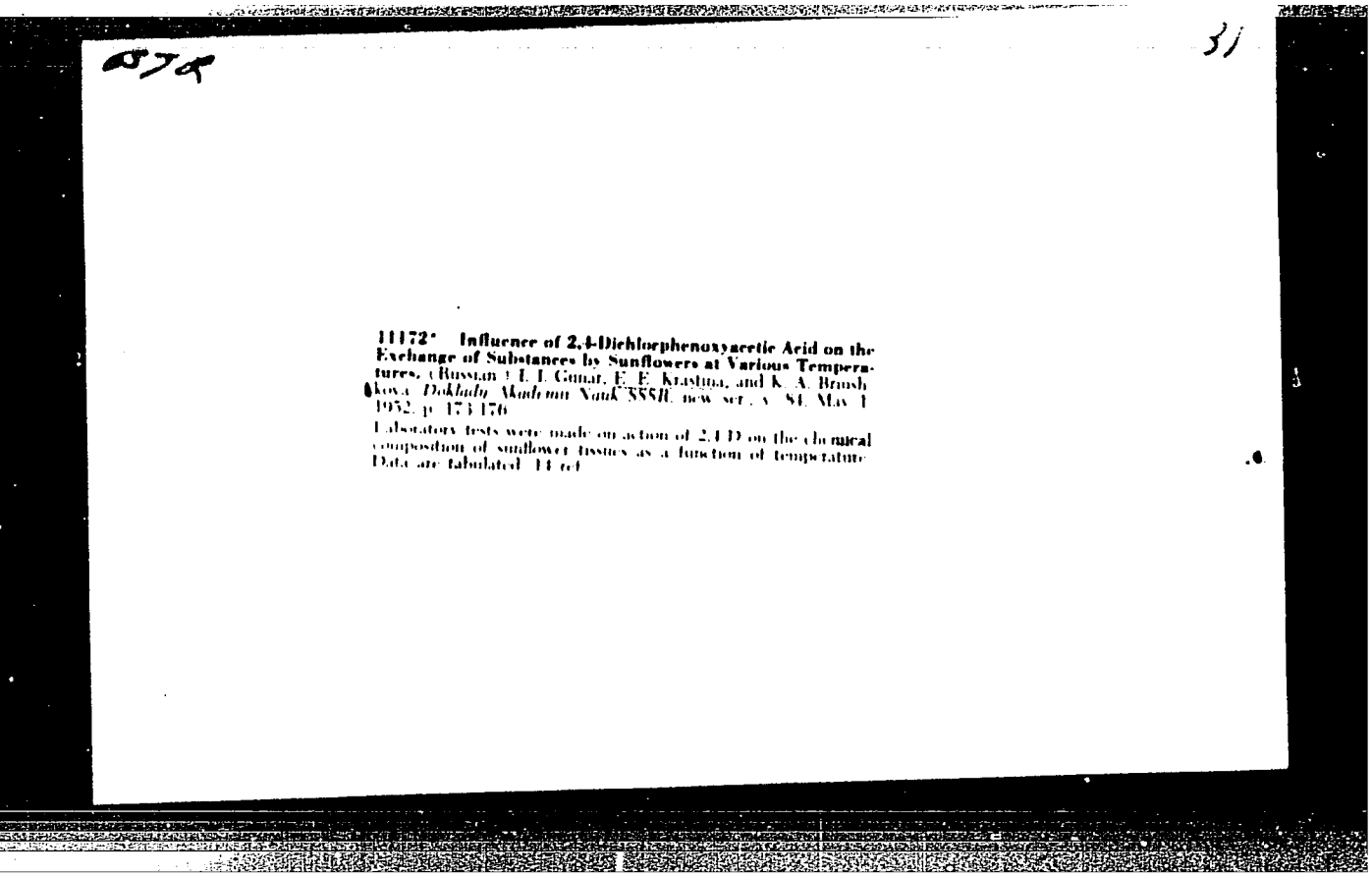
1. Iz Vladivostokskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny, Vladivostokskoy detskoy bol'nitsy No.1 i No.2 i Tikhookeanskoy basseynovoy sanitarno-epidemiologicheskoy stantsii.



CA

11-D

Carbonic anhydrase in plants. I. I. Gunar and E. R. Krastina (K. A. Timiryazev Agr. Acad., Moscow). *Doklady Akad. Nauk S.S.S.R.* **83**, 161–4(1952).—Tests with leaves of many common plants for a study of variation of the activity of the enzyme under various conditions revealed the following relations. In most cases the activity is higher in upper, younger leaves. Treatment of the plant with isopropylphenylcarbamate which retards photosynthesis and respiration, causes inactivation of the enzyme and the effect is greatest with younger plants. The effect is max. after 36 hrs. Chloroacetanilide, 1-naphthylthiourea, thiourea, and urea give similar results. Carbonic anhydrase was detected even in the roots of corn and peas; this enzyme has the same characteristics. Enzyme from dicotyledonous plants is not affected by carbamates; this is true also of the plant behavior in this family as well, since the plant growth is not affected by the carbamates. G. M. Kosolapoff



11172* **Influence of 2,4-Dichlorphenoxyacetic Acid on the Exchange of Substances by Sunflowers at Various Temperatures.** (Russian) I. I. Gunar, E. E. Krastina, and K. A. Brush kova. *Doklady Akademii Nauk SSSR*, new ser., v. 84, May 1 1952, p. 173-176

Laboratory tests were made on action of 2,4-D on the chemical composition of sunflower tissues as a function of temperature. Data are tabulated. 11 ref.

GUNAR, I. I., KRASTINA, YE. YE.

Wheat

Physiology and biochemistry of the phasic development of spring wheat. Dokl. AN SSSR 86 no. 1, 1952.

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

1. GUMAR, I. I., KRISTINA, Ye. Ye.

2. USSR (600)

4. Vernalization

7. Length of vernalization in winter wheat in relation to the phase of development. Agrobiologiya, No. 1, 1953.

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

KRASTINA, E. E.

(2)

The influence of the level of phosphorus on the development and exchange of substances in spring wheat. E. E. Krastina. *Izvest. Timiryazev. Sel'skokhoz. Akad.* No. 2(3), 77-90(1953).—A shortage of P in the nutrition of spring wheat (Lutecens 62) during the first 8–9 days of its growth does not disturb the development of the wheat and does not reduce the yield, but retards the aging of the leaves. As a result the plants maintain a higher capacity for the synthesis of nucleoproteins and other org. P compds. A shortage of P during the intensity light period (from the 10th to the 20th day of growth) causes a disturbance in the formation of the spike and speeds up maturity and aging of plants. A reduction in the capacity of synthesizing nucleoproteins takes place. A shortage of P at the stage prior to heading has no influence on the growth and development of plants, but upon the addn. of P the plants speed up their development and age rapidly. Exclusion of P from the nutrient medium from the start and transferring plants later into a P-rich medium causes intoxication of the root system. The expts. were conducted in soln. cultures. I. S. J.

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Soils and Fertilizers

CATEGORY: CULTIVATED PLANTS. Grains. Leguminous Grains. Tropical Cereals.

ABS. JOUR: REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15620

AUTHOR: Gunar, I.I.; Krastina, Ye.Ye.

INST.: Moscow Agric. Academy im. K.A. Timiryazev

TITLE: Reaction of Corn to Temperature Conditions

ORIG. PUB.: V sb.: Kul'tura kukuruzy v SSSR, M., "Sov. nauka", 1957, 12-15

ABSTRACT: An experiment was conducted in the artificial climate laboratory of the Timiryazev Agricultural Academy in testing a series of methods of acting on the Minnesota 13 corn seeds for the purpose of raising the plant's resistance to cold. Lowering of corn germination as compared to control plants was observed in all experiment variations at all temperatures. Cold hardening of the seeds had a positive effect on corn plant resistance

CARD: 1/2

COUNTRY :
CATEGORY : CULTIVATED PLANTS.

ABS. JOUR. : [illegible] BIOLOGIYA, NO. 4, 1953, [illegible], 15620

AUTHOR :
INST. :

TITLE

ORIG. PUB. :

ABSTRACT .to temperature lowering in the two-leaf phase, but under the conditions of sowing hardened seeds in warm soil. Any action on the corn seed which stimulates the seed drastically reduces plant germination after temporary cooling of the soil. Heating of the seed had almost no effect on germination, growth and development of corn.
-- A.F. Khlystova

CARD: 2/2

46

KRASTINA, Ye. Ye.

USSR/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15543

Author : I.I. Gunar, Ye.Ye. Krastina
Inst : -
Title : The Effect of the Pre-Sowing Processing of the Seeds on Corn Development.
(Vliyaniye predposevnoy obrabotki semyan na razvitiye kukuruzy).

Orig Pub : Kukuruza, 1957, No 1, 21-25.

Abstract : In the artificial climate laboratories of the K.A. Timiryazev Agricultural Academy the pre-sowing processing of corn seeds by lowered temperatures increased the cold resistance somewhat, although it afflicted the germination of the seeds, particularly when planted in cold ground. The pre-sowing seed processing through alternating temperatures (according to Voronova's method) had a positive effect on plant growth in some

Card 1/2

USSR/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15543

cases. Maintaining the growing seeds at the reduced temperatures (according to Grachev's method) had an adverse effect on plant growth in all cases. Warming up the dry seeds had no marked influence on either the sprouting of the seeds or on plant growth. When the corn seeds are planted early in cold soil, they should not be soaked and then further germinated.

Card 2/2

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KRASTINA, Ye. Ye.

USSR/Cultivated Plants - Grains M-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1511

Author : I.I. Gunar, Ye.Ye. Krastina
Inst : Moscow Order of Lenin Agricultural Academy imeni K.A. Timiryazev
Title : The Distribution of Phosphorus in Corn

Orig Pub : Kukuruza, 1957, No 3, 44-46

Abstract : The experiment was conducted in the TSKhA /Mosocw "order of Lenin" Agricultural Academy imeni K.A. Timiryazev/ artificial climate laboratory in 1952 by the marked atom technique. The formation of the organs of fruitbearing greatly influences the distribution of P in the plant. During the projection and florescence of the panicle, the inflow of P into the upper part and corn panicle occurs. After the blossoming of the panicle, the inflow of P is observed in the site of the formation of the cob. The hypothesis is expressed that the castration of the corn favorably influences its development, inasmuch as the feeding matter reaches the cob at an earlier stage.

Card : 1/1

USSR/Plant Physiology - Mineral Nutrition. I

Abs Jour : Ref Zhur Biol., No 12, 1958, 53293

Author : Gunar, I.I., Krastina, Ye.Ye., Petrov-Spiridonov, A.Ye.,

Inst : Timiryazev Agricultural Academy

Title : Rhythmicity of the Absorption and Excretion Activities in Roots.

Orig Pub : Izv. Timiryazevsk. s.-kh. akad., 1957, No 4, 181-206

Abstract : A study was made of the daily and impulse rhythm in the root activity of the sunflower, kidney bean, tomato, squash, and other plants cultivated in Knop's nutritive solution. The transpiration rate in the plants was determined by the amount of released sap. The P and S in the sap was determined by the method of isotope analysis, and K, Ca, and nitrates by the polarographic method. A daily periodicity in the rate of transpiration was

Card 1/3

USSR/Plant Physiology - Mineral Nutrition. I

Abs Jour : Ref Zhur Biol., No 12, 1958, 53293

detected in plants cultivated under alternating conditions of light and darkness for a twenty-four hour interval, and it was not observed with constant exposure to light. A rhythmicity was also noted in the absorption of the investigated ions by the root system: it was considerably higher in the daytime than at night. A study of the release of ions from the sap also revealed a daily rhythm: the sulfate and phosphate concentration was higher in the daytime, but the concentration of nitrates was lower than at night. Moreover, a rhythmicity for periods of several hours was observed in the absorption of ions. Alternation of absorption and excretion of a definite ion by the plant roots is regarded by the authors as a successive exchange of periods of stimulation and suppression in the activity of the roots with a constant irritant. This was confirmed by the presence of pulsation periods of 15 - 30 minutes observed in the determination

Card 2/3

- 5 -

USSR/Plant Physiology - Mineral Nutrition. I

Abs Jour : Ref Zhur Biol., No 12, 1958, 53293

of the transpiration rate and the secretion of phosphates and sulfates with the sap, and also the opposite changes in absorption and excretion of K and Ca. -- N.G. Zhirnova

Card 3/3

KRASTINA, E.YE.

USSR/Plant Physiology - Photosynthesis. I-1

Abs Jour : Ref Zhur - Biol., No 6, 1958, 24621

Author : Gunar I.I., Krastina E.E.
Inst : -
Title : Distribution of Carbon Assimilation Products Through the Organs in Soya Ontogenesis.

Orig Pub : Dokl. Mosk.s.-kh. akad. im. K.A. Timiriazeva, 1957, vyp. 29, 81-88

Abstract : Plants of Kharbin 231a variety of soyabean (typically short- day) and Northern Record variety of soyabean (neutral in relation to day length) were raised during long and short days. In both varieties of plants, which were kept in darkness for 24 hours, an increased flow of sugars from the leaves into the roots was observed during the differentiation period of the flower rudiments; during the blooming and fruit-bearing -- a flow of sugars from the leaves into the stems was observed. The same

Card 1/2

[illegible], (I. I. Gunar), (A. E. Petrov-Spiridonov)

"R[illegible]YTH[illegible] O[illegible] A[illegible]ING AND EXCRETI[illegible] ACTIVIT[illegible] OF ROO[illegible]" by I. I. Gunar,

E. E. Krastina, A. E. Petrov-Spiridonov.

Report presented at 2nd UN Atoms-for-Peace Conference, Geneva, 9-13 Sept 1958

[illegible]

KRASTINA, Ye. Ye.

(4) PHASE I BOOK EXPLOITATION SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; poluchenlye i primeneniye izotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, Atomizdat, 1959. 388 p. (Series: Its: Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): G.V. Kurdyumov, Academician, and I.I. Novikov, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): [illegible]; Tech. Ed.: Z.D. Andreyenko.

PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy for peaceful uses; for professors and graduate and [illegible] of higher technical schools where nuclear science is [illegible] and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on [illegible] Atomic Energy held in Geneva from September 1 to 13, 1958. [illegible] 32 reports on: 1) [illegible] for the production of [illegible] active isotopes and their [illegible], 2) [illegible] with the aid of isotopes in the field of chemistry, [illegible] biology, and agriculture, and 3) dosimetry of [illegible] 6 was edited by: S.V. [illegible], Candidate of [illegible] [illegible], Candidate of Chemical Sciences; and V.V. [illegible] [illegible] Sciences. See SOV/2081 for titles of volumes of this set. [illegible] appear at the end of the abstract.

16. Ribergal', A.V., V.L. Karpov, and V.I. Sinitsyn. Cobalt Sources of High Intensity for Radiative Action (Report No. 2234) 200

17. Gusev, N.G., Ye. Ye. Kovalev, and V.I. Popov. Gamma Radiation Inside and Outside Extended Sources (Report No. 2033) 211

18. Aglintsev, K.K., M.A. Bak, V.V. Bochkarev, Ye.S. Cricheva, Z.V. Yershova, and K.A. Petrzhak. System of Radiometric Measurement of Radioactive Isotopes (Report No. 2087) 227

19. Aglintsev, K.K., V.P. Kasatkin, V.V. Mitrofanov, and V.V. [illegible]. Application of Nuclear Spectroscopy Methods to Beta and Gamma-ray Dosimetry (Report No. 2503) 237

20. Baranov, P.S., V.I. Gol'danskiy, and V.S. Roganov. Instrument for Measuring Small Streams of High-energy Neutrons (Report No. [illegible]) [illegible]

21. Chubakov, A.A., V.I. Polikarpov, and V.A. Khleshova. Measuring and Analyzing Air Contamination by Low Concentrations of Aerosol Alpha Emitters (Report No. 2130) 248

22. Zalenskiy, O.V., V.L. Voznosenskiy, and O.A. Semikhatova. Photosynthesis Studies by Quantitative Radiometric Methods (Report No. 2135) 260

23. Rakitin, Yu.V. and A.V. Krylov. Studying the Transfer, Distribution, and Transformation of Certain Physiologically Active Compounds in Plants (Report No. 2133) 274

24. Gunar, I.I., Ye.Ye. Krastina, and A.Ye. Petrov-Spiridonov. Rhythm of Absorption and Secretion in Roots (Report No. 2233) 285

25. Akhromeyko, A.I., and V.A. Shestakova. Effect of the Rhizospheric Microorganisms on the Absorption and Secretion of Phosphorus and Sulfur by the Seedling Roots of Woody Plants (Report No. 2312) 306

26. Razumov, V.I., and N.D. Ptofanova. Absorption of Phosphorus Tracers by Cultivated Plants in Relation to Their Resistance to Cold (Report No. 2313) 315

27. Andreyev, N.V., A.V. Voyevodin, V.A. Molchanova, and A.V. Khotyanovich. Some Results of Using Radioactive Isotopes for Plant Protection (Report No. 2309) 322

Alloys of Zirconium and Titanium Base by the Radioactive Isotope Method (Report No. 2526) 189

GUNAR, I.I.;KRASTINA, Ye.Ye.;PETROV-SPIRIDONOV, A.Ye.

How the proportion between potassium and calcium in the nutrient solution and in the plant affects the cold resistance of corn. Izv. TSKhA no.5:19-28 '59 (MIRA 13:3)
(Corn(Maize)) (Plants, Effect of potassium on)
(Plants, Effect of calcium on)

GUNAR, I.I.; KRASTINA, Ye.Ye.; BRYUSHKOVA, K.A.; BELIKOVA, Ye.M.

Diurnal periodicity in the synthetic activity of roots. [with summary in English]. Izv. TSKhA no.5:18-34 '60. (MIRA 13:11)
(Roots (Botany))

GUNAR, I.I.; KRASTINA, Ye.Ye.

Effect of light-darkness balance on the rhythm of movements in plant leaves. Izv. TSKhA no.5:55-70 '61. (MIRA 14:12)
(Plants, Effect of light on)

KRASTINA, Ye.Ye., kand.biolog.nauk; GUNAR, I.I., prof.

Specific characteristics of the photoperiodic reaction of organisms to short and long days. Izv.TSKHA no.4:53-63 '62. (MIRA 15:12)

(Photoperiodism)

KRASTINA, Ye.Ye.; KOVRIGO, N.M.; GUNAR, I.I.

Connection of the photoperiodical reaction of Perilla and spring wheat with chronometric characteristics. Izv. TSKHA no.6:32-48 '62. (MIRA 16:6)
(Photoperiodism)

KRASTINA, Ye.Ye., kand.biolog. nauk

Ontogenetic changes in the daily rhythm of movement of kidney bean leaves [with summary in English]. Izv. TSKHA no.3:62-71 '63. (MIRA 16:9)

(Plants—Irritability and movement) (Beans)

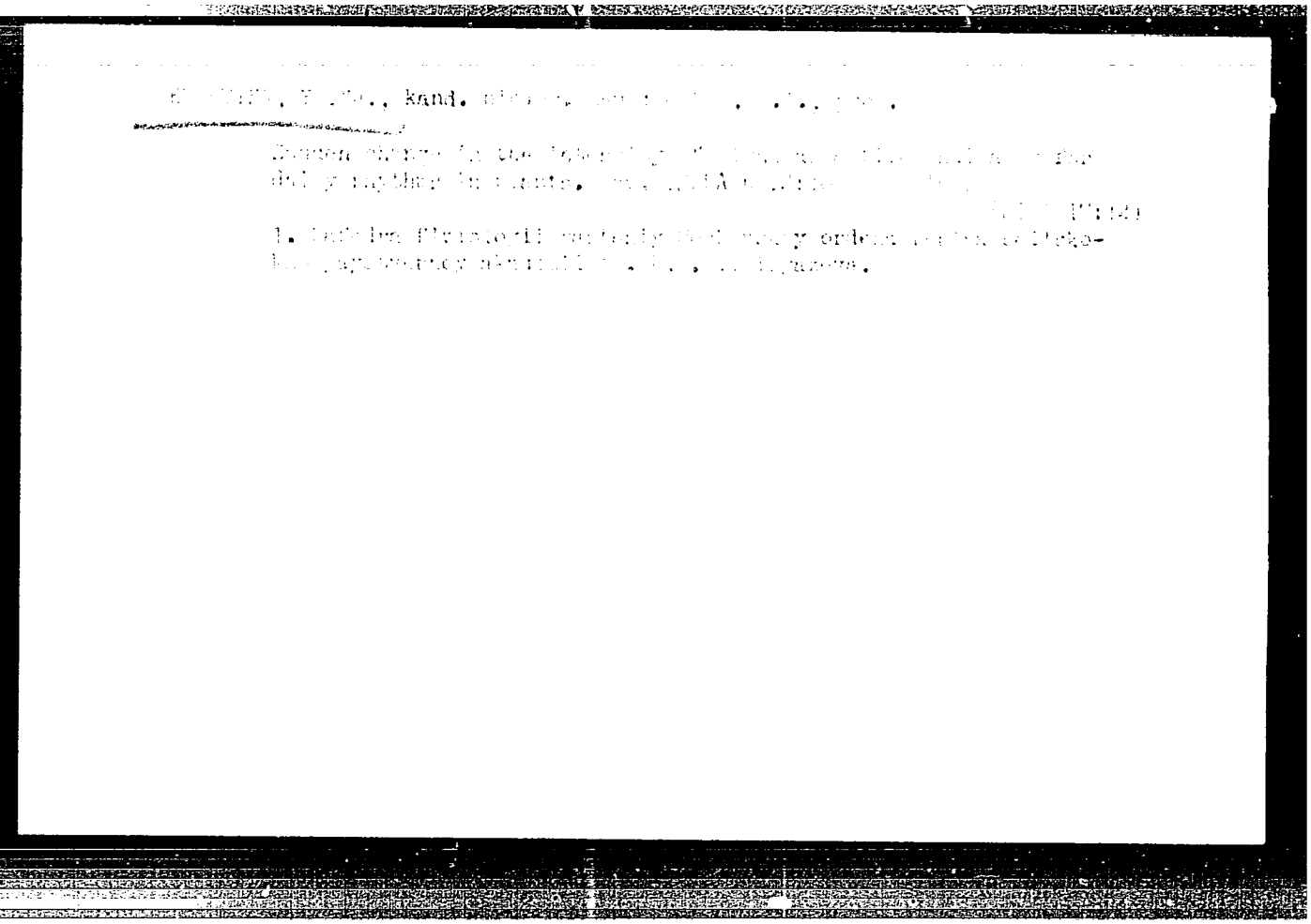
KRASTINA, Ye.Ye.; GUNAR, I.I.; KASPSHIK, M.

Role of external and internal factors in the daily dynamics of root feeding in tomatoes. Izv. TSKhA no.6:32-42 '61. (MIRA 16:8)

(Tomatoes) (Plants—Nutrition)
(Plants, Effect of light on)

KhoSTIKH, Ye.Ye., kand. biolog. nauk

Effect of temperature on the photoperiodic reaction of mustard, spring wheat, and oats. Izv. TSKhA no.5:37-46 '62. (MIRA 17:7)



KRASTINA, Ye.Ye., starshiy nauchnyy sotrudnik, kand. biolog. nauk;
GUNAR, I.I., prof.

Effect of thermal stimulation on the exudation of sap by sunflower roots. Izv. TSKHA no.3:71-81 '64.

(MIRA 17:11)

1. Kafedra fiziologii rasteniy Moskovskoy sel'skokhozyaystvennoy akademii imeni Timiryazeva.

KHASTINA, Ya.Ye., kand. biolog. nauk

Effect of the intensity of continuous light on the manifestation of endogenous components in daily rhythms of the absorption of water and ions of nutrient salts by sunflowers. Izv. TSKHA no.2:87-95 '65. (MIRA 18:9)

1. Laboratoriya iskusstvennogo klimata Moskovskoy akademii sel'skokhozyaystvennykh nauk imeni Timiryazeva.

KRASTINA, Z.; Vanags, G.; Zelmene, V.

Halogenation of some 2 acylindandiones 1, 3. In Russian. p. 75.

LATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

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

21(4); 31(5) PHASE I BOOK EXPLOITATION SOV/2683

Krasting, N. I.

Krylatyye i atomnyye suda; rekomendatel'nyy obzor literatury (Hydrofoil and Atom-Powered Ships; List of Recommended Literature) Moscow, 1958. 21 p. (Series: Novosti tekhniki, vyp. 15) 15,000 copies printed.

Sponsoring Agencies: Gosudarstvennaya biblioteka SSSR and Tsentral'naya politekhnicheskaya biblioteka.

Ed.: A. Ya. Chernyak; Tech. Ed.: L. P. Vasil'yeva.

PURPOSE: This booklet is intended to acquaint the general reader with the literature available on hydrofoil and atom-powered ships.

COVERAGE: This bibliography presents the title, author and brief summary of Soviet articles and books available on hydrofoil and atom-powered ships. Three compilations are included: an alphabetical list of the journals in which certain of the articles have appeared; an alphabetical list of the authors of the books and reports included in the bibliography; a list of the 14 previous publications in this series.

AVAILABLE: Library of Congress

Card 1/1

IS/fal
11-29-59

KRASTING, Nataliya Ivanovna; SUSHKO, A.G., red.; VASIL'YEVA, L.P., tekhn.red.

[Consolidated power engineering system in the U.S.S.R.; review of recommended literature] Edinaia energeticheskaia sistema SSSR; rekomendatel'nyi obzor literatury. Moskva, 1960. 15 p. (Novosti nauki i tekhniki, no.24). (MIRA 13:6)
(Bibliography--Power engineering)

GASPERSONS, I., otv. za vypusk; BĒJ-MAMIKONJANE, Z., retsenzent; KRASTINS, A., red.

Rigas Jusmala. [n.p.] BFSB "Spartaks" Latvijas Republikanis-kas Padomes centrala turisma sekcija [1960?] 79 p.
(MIRA 16:1)

(Rigas Jurmala--Guidebooks)

KRASTINS, O.

Using correlation methods for analyzing the economic activity on collective farms. Izv.AN Latv.SSR no.2:3-17 '63.

(MIRA 16:4)

(Latvia—Agriculture—Economic aspects)

TERENT'YEVA, E.I., prof.; KRASTOSHEVSKAYA, T.G.; ORLOVA, L.D.

Study of the electron microscopic structure of hematopoietic tissue cells. Report No.2: Hemocytoblasts in acute leukemia. Probl. gemat. i perel. krovi no.2:3-14 '65.

(MIRA 18:11)

1. TSitologicheskaya laboratoriya (zav. - prof. E.I.Terent'yeva) i gematologicheskaya klinika (zav. - prof. M.S.Dul'tsin) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - dotsent A.Ye.Kiselev), Moskva.

KRASTOSHEVSKIY, Leonid sevenovich; SMIRNOV, L.V., otvetstvennyy redaktor; MADEINSKAYA, A.A., tekhnicheskiy redaktor

[Use of roof bolts in foreign mines] Primenenie ankernoi krepi na zarubezhnykh shakhtakh. Moskva, Ugletekhizdat, 1956. 33 p. (MLRA 9:7)
(Mine timbering)

KRASTOSHEVSKIY, L.S.; DANCHICH, V.V.; AVDIYENKO, T.G.; ARKHANGEL'SKIY, A.F.; GAK, A.M.; YEPIFANTSEV, Yu.P.; ZELINSKIY, V.M.; IVANOV, P.S.; IVASHCHENKO, P.R.; KALININA, M.D.; KRAVCHENKO, A.G.; KOTLYAROVA, A.V.; KHUGLYAKOVA, M.D.; LEVIKOV, I.I.; LIBKIND, R.I.; NIKOLAYEVA, N.A.; NAUMENKO, V.F.; PRESHMAN, I.B.; PRISYAZHNIKOV, V.S.; POBEDINSKAYA, L.P.; POKALYUKOV, S.N.; POPOV, A.A.; SOLOMENTSEV, M.N.; TARASOV, I.V.; FILONENKO, A.S.; SHISHOV, Ye.L.; SHRAYMAN, L.I.; YAKUSHIN, N.P.; ZVORYKINA, L.N., red. izd-va; LOMILINA, L.N., tekhn.red.

[Horizontal mining in foreign countries] Provedenie gorizontal'nykh vyrabotok za rubezhom. Moskva, Ugletekhizdat, 1958. 342 p. (MIRA 12:4)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva.
(Mining engineering)

KRASTOSHEVSKIY, L.S., inzh.; SHEVTSOV, A.Yu., inzh.; KISELEV, S.I., inzh.

Searching for a design of precast reinforced concrete lining for shafts sunk by boring. Trudy VNIIOMSHSa no.15:64-93 '64.
(MIRA 18:2)

L 55151-65 ENT(d)/EEC(k)-2/EEC-4/EWP(v)/EWP(k)/EWP(h)/EWP(l) Pc-4/Pq-4/
Pf-4/Pg-4/Pk-4/Pl-4 WW
ACCESSION NR AM5005930 BOOK EXPLOITATION UR/
681.2.002.56

Kosharskiy, B. D.; Bek, V. A.; Beznovskaya, T.Kh.; Gorokhova, M. S.; Krastoshevskiy, Z. M.; Rabinovich, G. A.; Shliozberg, Yu. A.; Frenkel', I. B.

Automatic devices and regulators; handbook material (Avtomaticheskiye pribory i regulyatory; spravochnyye materialy) Moscow, Izd-vo "Mashinostroyeniye", 64. 070h p. illus., fold. diagrs. Errata slip inserted. 19,000 copies printed

TOPIC TAGS: automatic control, automatic temperature control, automatic pressure control, automatic vacuum control, temperature instrument, pressure measuring instrument, flow meter, liquid level instrument, pneumatic servomechanism

PURPOSE AND COVERAGE: The book describes the equipment used for automatic control, signaling, and regulation of technological processes, and discusses temperature, pressure, and level control devices, hydraulic, pneumatic, electric, and electronic direct-acting regulators. The book is intended for engineering and technical personnel engaged in the design, planning, and operation of automated industrial enterprises, and may prove useful to students at higher and secondary specialized schools.

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ACCESSION NR AM5005930

TABLE OF CONTENTS (abridged):

SUBMITTED: 18Jun64 SUB CODE: IE, EC

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KRASTOSTUHYAN, T.L.

Treatment of inflammatory infiltrations with magnesium sulfate. Klin. med., Moskva 31 no.5:86 May 1953. (CIML 25:1)

1. Of Oktemberyansk Rayon Hospital (Head Physician -- P. A. Varshanetyan), Armenian SSR.

KRASTYN', Ya. [Krastins, J.]

Latvian labor movement during the new intensification of revolutionary activity. Vestis Latv ak no.7:25-35 '62.

KRASTYNI, A.[Krastins, A.], otv. za izdaniye

[Rigas Jurmala; a booklet for the aid of tourism enthusiasts in taking trips or excursions] Rizhskoe Vsmor'e; broshiura prednaznachaetsia v pomoshch' liubiteliam turizma dlia provedeniia pokhoda ili ekskursii. Riga, Izdatel' Rizhskii gorodskoi sovet DSO "Daugava", 1959. 59 p. (MIRA 16:5)

(Rigas Jurmala--Guidebooks)

KRASUCKA, Luba

Analysis of activities of the department in charge of premature infants. Pediat. polska 29 no.9:921-928 Sept 54.

1. Z II Kliniki Poloznictwa i Chorob Kobiecych Akademii Medycznej w Warszawie. Dyrektor Kliniki: prof. dr med. W.Sowinski. Kierownik Oddzielu: dr med. L.Krasucka.
(INFANT, PREMATURE,
care in Poland)

522. KRASUCKA L. and SZOTOWA W. II Klin. Położnictwa Chorób Kobiecych A.M., Warszawa; Klin. Propedeut. Ped. A.M., Warszawa. *Okres noworodkowy dzieci urodzonych za pómocą cięcia cesarskiego. The newborn period of infants born by means of caesarean section PEDIAT. POL. 1955, 30/5 (455-462) Tables 3

The authors have analysed the newborn period of children born by means of caesarean section. The mortality among 402 newborns born alive was 6.4%, while the total infant mortality in this same period was 2.5%. The mortality of full-term newborn infants born by means of caesarean section was 3.1%, and the total mortality of mature infants was 0.6%. Asphyxia was the most frequent cause of death.

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The mortality was not caused by the operation itself, but by complications of pregnancy and of the delivery which required surgical intervention. Anaesthesia of the mother caused asphyxia of the newborn in 22.9%; after oxygen-ether anaesthesia it occurred in 6.1% of the cases. The influence of caesarean section on the period of the newborn's adaptation was not observed. Despite immediate section of the umbilical cord of these newborns in opposition to what is usually carried out on normally born children, a higher incidence of icterus neonatorum was not noticed. The figures were 74% and 80% respectively. Lactation did not differ from lactatior after normal deliveries.

Krasucka - Warsaw

KRASUCKI, Henryk

Therapeutic pneumoperitoneum in our views. Wiad. lek. 18 n.,20; 1591-1594 15 O '65.

1. Z Kliniki Chirurgicznej Instytutu Gruzlicy w Warszawie (Kierownik: prof. dr. L. Manteuffel).

KRASUCKI, Florian

New types of electric power cables and conductors for mining purposes.
Wiadom gorn 10 no.6:207-210 Je '59.

KRASUCKI, Florian

Defects in electric power networks in mines. Wiadom gorn 12 no. 12: 424-428 D '61.

KRASUCKI, Florian

A new method of research on determining the cutting off efficiency of isolating switches of medium voltage. Gornictwo Gliwice no.4:25-53 '62.

KRASUCKI, Florian, mgr inz.

Series of tests of the breaking capacity of some core disconneting switches. Przegl elektrotech 38 no.10:428-429 O '62.

1. Zaklad Elektryfikacji Zakladow Konstrukcyjno-Mechanizacyjnych Przemyslu Weglowego, Warszawa.

KRASUCKI, Florian, mgr inz.

Cutting off idle transformers by 6000 v insulation indoor switches.
Przegl gorn 18 no.12:728-732 D '62.

KRASUCKI, Florian, mgr inz.; SZYJA, Stanislaw, mgr inz.

Selection of the power supply voltage for mining machines in sectors of high mining concentration. Przegl gorn 20 no.10:402-410 O '63.

KRASUCKI, Florian

Determination of the basic safety criteria in using electric shock for underground mining. Gornictwo Gliwice no.12:183-215 '64.

KRASUCKI, Florian; LIBERUS, Zygfryd

Comparison as to economy and mobility of locomotives used in underground mines. Gornictwo Gliwice no.12:217-234 '64.

BEDNARSKI, Zbigniew; KRA[illegible], Henryk, PAWLICKA, Lilla

Accessory bronchus arising from the trachea with bronchiectasies of the right lung. Gruzlica 32 no.9:823-829 [illegible]

1. Z Kliniki Chirurgicznej (Kierownik: prof. dr. med. L.Manteuffel) i z Zakładu Radiologii (Kierownik: prof. dr. med. K.Osowska) Instytutu Gruźlicy.

BEDNARSKI, Zbigniew; KRASUCKI, Henryk; IZDEBSKA-MAKOSA, Zuzanna

Surgical treatment of a spontaneous lymphatic spilling into the pleural cavity. Gruzlica 32 no.9:831-835 S '64

1. Z Kliniki chirurgicznej (Kierownik: prof. dr.med.L.Manteuggel) i z Kliniki Chorob Pluc (Kierownik: doc. dr. med. P.Krakowka) Instytutu Gruzlicy.

KRASUCKI, Piotr

Research problems on absenteeism due to illness. Praca zabezp spol 5 no.12:10-15 D'63.

KRASUCKA L

COUNTRY : Poland
CATEGORY : Human and Animal Physiology, Reproduction

T

ABS. JOUR. : RZhBiol., No. 5 1959, No. 22367

AUTHOR : Krasucka, L.; Zaleska, K.
INST. : --
TITLE : Mortality among New-born Twins

ORIG. PUB. : Pédiatr. polska, 1957, 32, No. 12, 1329--1338

ABSTRACT : no abstract

Card: 1/1

PALUCH, J.; KRASUCKI, P.

Determination of toxicity of technical tricresyl phosphates.
Med. pracy 6 no. 4:227-234 1955.

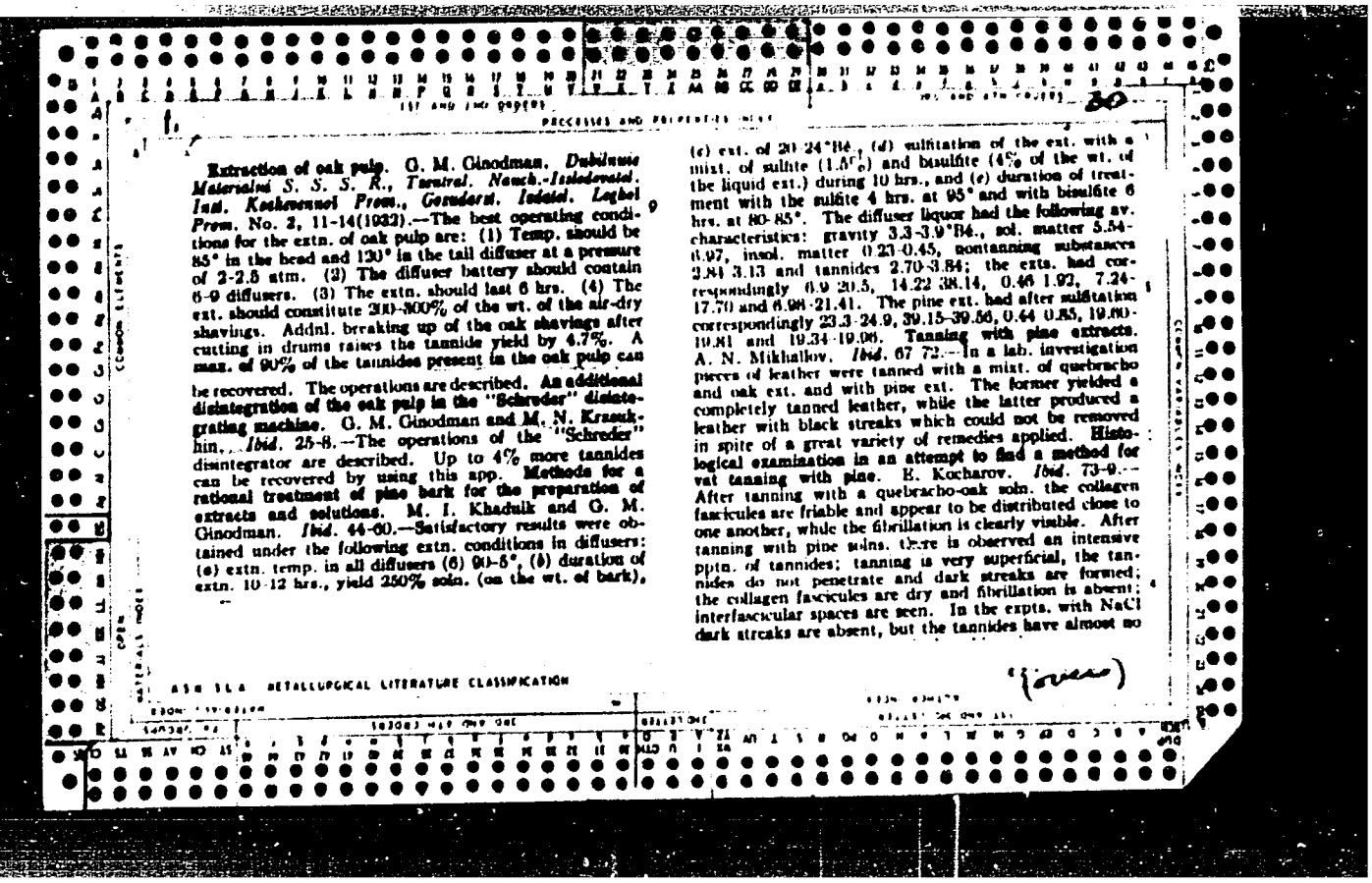
1. Z Instytutu Medycyny Pracy w Lodzi. Dyrektor: prof. Dr. E.Paluch.

(CRESYL PHOSPHATE,
tricresylphosphate, toxicity determ. in indust.)
(INDUSTRIAL HYGIENE
toxicity determ. of tricresylphosphate)

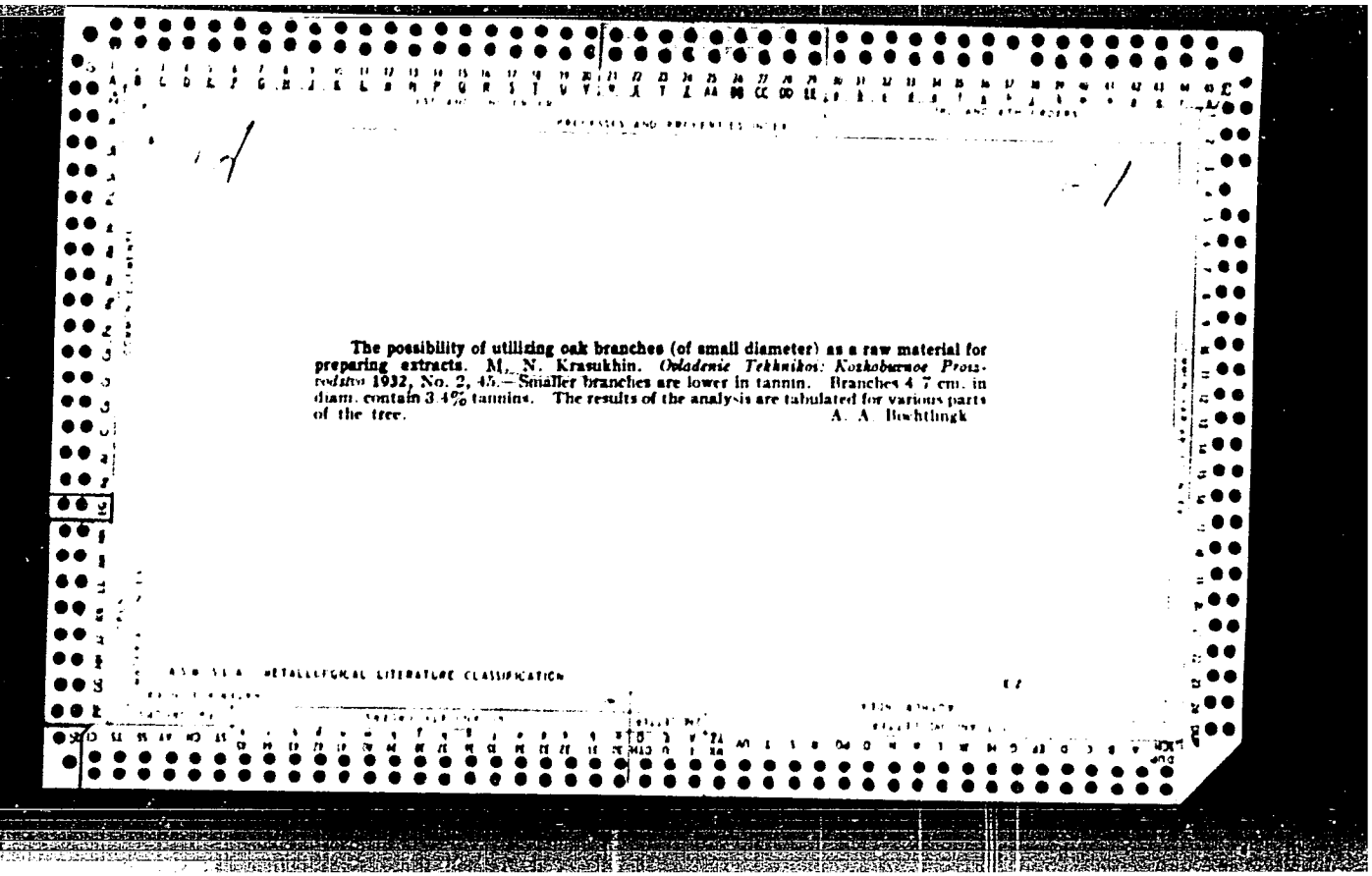
KRASUCKI, Stanislaw; SIWICKI, Stanislaw

Interrow mellowing of the soil in sugar beet cultivation. Rocz nauk roln rosl 86 no.3:477-492 '62.

1. Instytut Hodowli i Aklimatyzacji Roslin, Zaklad Buraka i Innych Roslin Korzeniowych, Bydgoszcz.



Extraction of oak pulp. G. M. Ginodman. *Dubilnoie Materialui S. S. S. R., Tsentral. Nauch.-Issledovatel. Inst. Kozhevennoi Prom., Gosudarst. Izdatel. Legkoi Prom.* No. 2, 11-14(1932).—The best operating conditions for the extn. of oak pulp are: (1) Temp. should be 85° in the head and 120° in the tail diffuser at a pressure of 2-2.5 atm. (2) The diffuser battery should contain 6-9 diffusers. (3) The extn. should last 6 hrs. (4) The ext. should constitute 200-300% of the wt. of the air-dry shavings. Addnl. breaking up of the oak shavings after cutting in drums raises the tannide yield by 4.7%. A max. of 90% of the tannides present in the oak pulp can be recovered. The operations are described. **An additional disintegration of the oak pulp in the "Schreder" disintegrating machine.** G. M. Ginodman and M. N. Krasukhin. *Ibid.* 25-6.—The operations of the "Schreder" disintegrator are described. Up to 4% more tannides can be recovered by using this app. **Methods for a rational treatment of pine bark for the preparation of extracts and solutions.** M. I. Khadulk and G. M. Ginodman. *Ibid.* 44-60.—Satisfactory results were obtained under the following extn. conditions in diffusers: (a) extn. temp. in all diffusers (6) 90-5°, (b) duration of extn. 10-12 hrs., yield 250% soln. (on the wt. of bark), (c) ext. of 20-24°Bé., (d) sulfitation of the ext. with a mixt. of sulfite (1.5%) and bisulfite (4% of the wt. of the liquid ext.) during 10 hrs., and (e) duration of treatment with the sulfite 4 hrs. at 95° and with bisulfite 6 hrs. at 80-85°. The diffuser liquor had the following av. characteristics: gravity 3.3-3.9°Bé., sol. matter 5.54-6.97, insol. matter 0.23-0.45, nontanning substances 2.84-3.13 and tannides 2.70-3.84; the exts. had correspondingly 0.9-20.5, 14.22-38.14, 0.46-1.92, 7.24-17.70 and 6.98-21.41. The pine ext. had after sulfitation correspondingly 23.3-24.9, 39.15-39.56, 0.44-0.85, 19.80-19.81 and 19.34-19.06. **Tanning with pine extracts.** A. N. Mikhailov. *Ibid.* 67-72.—In a lab. investigation pieces of leather were tanned with a mixt. of quebracho and oak ext. and with pine ext. The former yielded a completely tanned leather, while the latter produced a leather with black streaks which could not be removed in spite of a great variety of remedies applied. **Histological examination in an attempt to find a method for vat tanning with pine.** B. Kocharov. *Ibid.* 73-9.—After tanning with a quebracho-oak soln. the collagen fascicules are friable and appear to be distributed close to one another, while the fibrillation is clearly visible. After tanning with pine solns. there is observed an intensive pptn. of tannides; tanning is very superficial, the tannides do not penetrate and dark streaks are formed; the collagen fascicules are dry and fibrillation is absent; interfascicular spaces are seen. In the expts. with NaCl dark streaks are absent, but the tannides have almost no



The possibility of utilizing oak branches (of small diameter) as a raw material for preparing extracts. M. N. Krasukhin. *Oddelenie Tekhnikhoz. Kozhobumnoe Proizvodstvo* 1932, No. 2, 45.—Smaller branches are lower in tannin. Branches 4–7 cm. in diam. contain 3–4% tannins. The results of the analysis are tabulated for various parts of the tree. A. A. Buchtlingk

PROCESSES AND PROPERTIES INDEX

Possibility of using diseased oak pulp for the preparation of tanning extracts M. N. Krasukhin. *Okladenie Tekhnikoi: Kozhobuvnoe Proizvodstvo* 1932, No. 3, 37-8. A large no. of analyses carried out with oak in various stages of disease showed that the content of the tanning substance varies within 3.1-4.2%, although the sp. gr. of such pulp is considerably lower than that of healthy pulp. The same statements apply to dead trees. A. A. Boehtlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

The extraction of pine bark with sulfite pulp extract.
M. N. Krasukhin. *Osladenie Tekhnikoi Kozhevennoe Proizvodstvo* 1933, No. 6, 30-41; *Chem. Zentr.* 1933, I, 3855.—Processes for the extn. of pine bark with solns. of sulfite pulp ext. of 5-6° Bé. are described. The liquors so obtained were adjusted to various p_H values and the contents of tanning and non-tanning matter detd. In other expts. the dil. sulfite pulp exts. were adjusted to different p_H values before extn. of the pine bark. It was shown that a p_H of 5 was best for this purpose and that the yield of tanning matter obtained by these methods was somewhat higher than that obtained by extn. with pure water. The dyeing process with the mixt. of exts. obtained was most satisfactory at a p_H of 2.
M. G. Moore

METALLURGICAL LITERATURE CLASSIFICATION

1A

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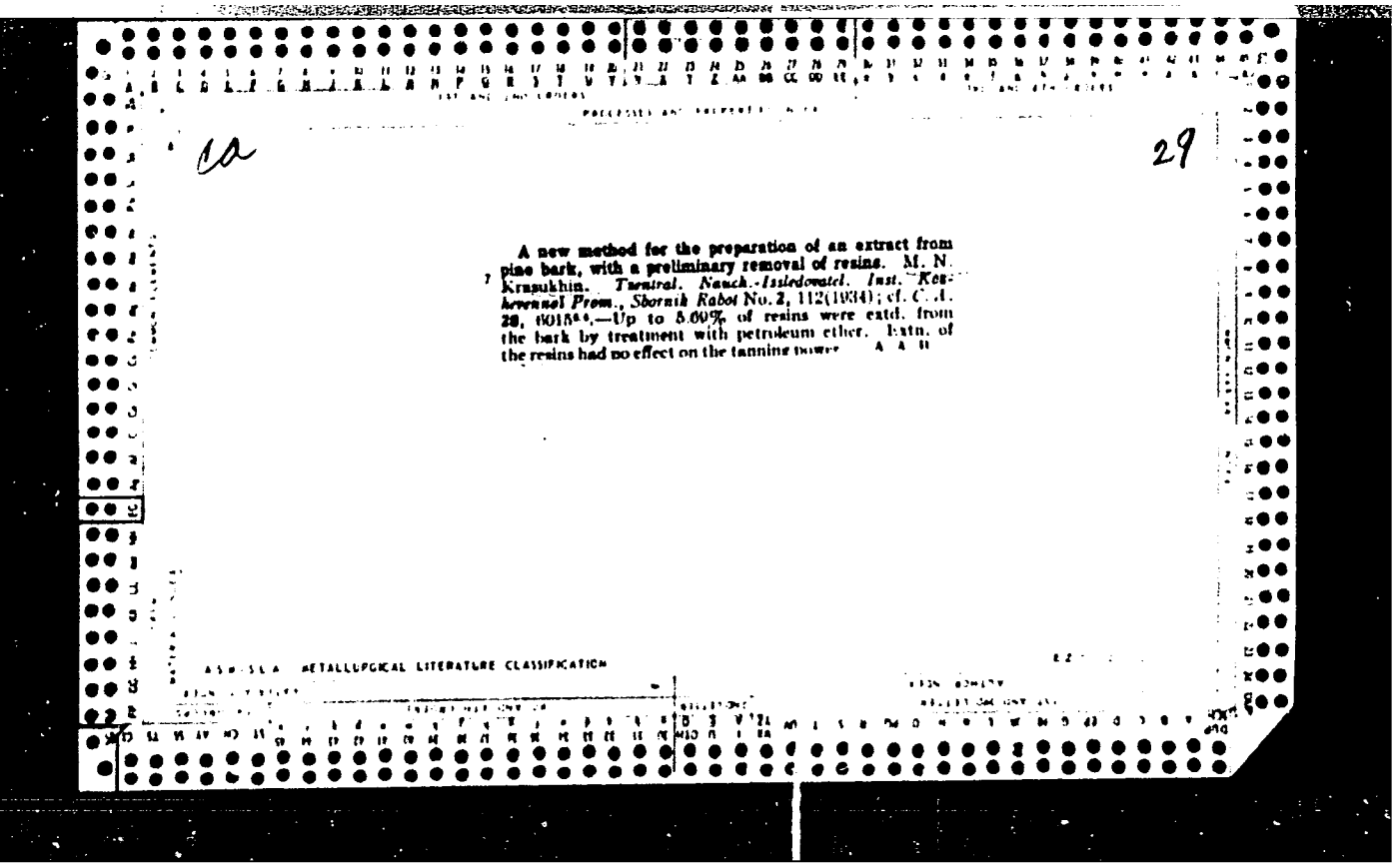
The extraction of pine bark with sulfite pulp spent liquor. M. N. Krasulkhin. *Ouladenie Tekhnikoi Kozhevennoe Proizodstvo* 1932, No. 6, 42-4; *Chem. Zentr.* 1933, I, 3855.—"Soft," "medium" and "hard" sulfite pulp spent liquors were used in further expts. (cf. preceding abstr.) on the extn. of pine bark. Tabular data indicate that the "soft" liquor is best for the purpose. Otherwise, results are similar to those obtained with the sulfite pulp ext. Dyeing expts. indicated that the tanning properties of mixts. of sulfite pulp spent liquors and pine bark exts. were equally as good as those of the sulfite pulp ext. N I K P No. 1 and No. 4, but somewhat inferior to those of the sulfited pine bark ext. No difference could be detected between the exts. prepd. from soft and hard liquors, nor did the p_H have any effect. A process of vat tanning with the mixed exts. is described by which pickled cow hides are thoroughly tanned by vat tanning for 3 days followed by standing in the dye bath 2-4 days.

M. G. Moore



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A new method for the preparation of an extract from pine bark, with a preliminary removal of resins. M. N. Krasukhin. *Tsentral. Nauch.-Issledovatel. Inst. Kozhevennoi Prom., Sbornik Rabot* No. 2, 112(1934); cf. C. A. 28, 6015⁶.—Up to 5.69% of resins were extd. from the bark by treatment with petroleum ether. Extn. of the resins had no effect on the tanning power.

A S M - S L A METALLURGICAL LITERATURE CLASSIFICATION

Extracts from oak pulp. M. M. Krasukhin. *Tsentral. Nauch.-Issledovatel. Inst. Kozhevennoi Prom. Sbornik Rabot* 10, 108-17(1938).—Oak-pulp ext. can be used in various tanning operations alone or in mixt. with synthetic tanning substances. A. A. Boehtlingk

PROCESSES AND PROPERTIES INDEX

Sulfitized oak extracts. M. M. Krasukhin and I. Ya.
Lavandov. *Tsentral. Nauch.-Issledovatel. Inst. Kozhe-*
vennoi Prom., Sbornik Rabot 10, 135 (1938). The sul-
fitation of liquid oak exts. before the last evapn. decreases
the content of insol. substances from 13.5 to 2.5-3% for
the solid and from 4.3 to 1.6% for the powd. ext. The sul-
fitized ext. is dissolved more easily and completely.
There is no difference in tanning properties between sul-
fitized and nonsulfitized ext. The loss in tannides caused
by the sulfitation amounts to about 4%. As a rule the
sulfitation is carried out better in the extn. plant than in the
tannery. A. A. Bochtlingk

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

Tanning with "tannal." M. N. Krasukhin. *Kozhevenno-Obuvnaya Prom.* **17**, No. 7, 28-30 (1938); *Chem. Zentr.* **1939**, I, 573. The entire tanning process with willow and spruce "tannals" proceeded normally. Hides tanned with the 2 "tannals" did not show any substantial difference in the chem. or phys. consts. The tanning factor was slightly higher after the 7th and 8th vat than in tanning with ordinary willow ext. (45.04-53.46 to 60.97 against 44.18-55.6-57.5). Leather tanned with spruce "tannal" was lighter, softer and more elastic than leather tanned with willow "tannal." A. A. B.

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PROCESSES AND PROPERTIES INDEX

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"Tannal." M. N. Krasiklin. *Trudy Tsentral. Nauch. Issledovatel. Inst. Kozhevenno-Obuvnoi Prom., Sbornik Rabot* No. 11, 150-7(1940). "Tannals" were prepd. by the Mukhamedov method (cf. C. A. 27, 5616), i. e., tanning exts. were treated with acetaldehyde in an acidic medium whereby tannins and small amts. of nontanning substances are pptd. The turbid liquid is filtered and the residue ("tannal") is insol. in water but can be dissolved by the action of sulfites. Low-grade tanning exts. can be improved by this method, providing their solv. can be brought up to the required value. A satisfactory solv. of the "tannals" is obtained by heating them with 27% of technical bisulfite, or 5.5% technical sulfite and 16.17% technical bisulfite (on the wt. of absolutely dry "tannal") to 90-95° for 2-3 hrs. The tanning properties are satisfactory. 9

V. A. Boehtlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KRASUKHIN, M. N.

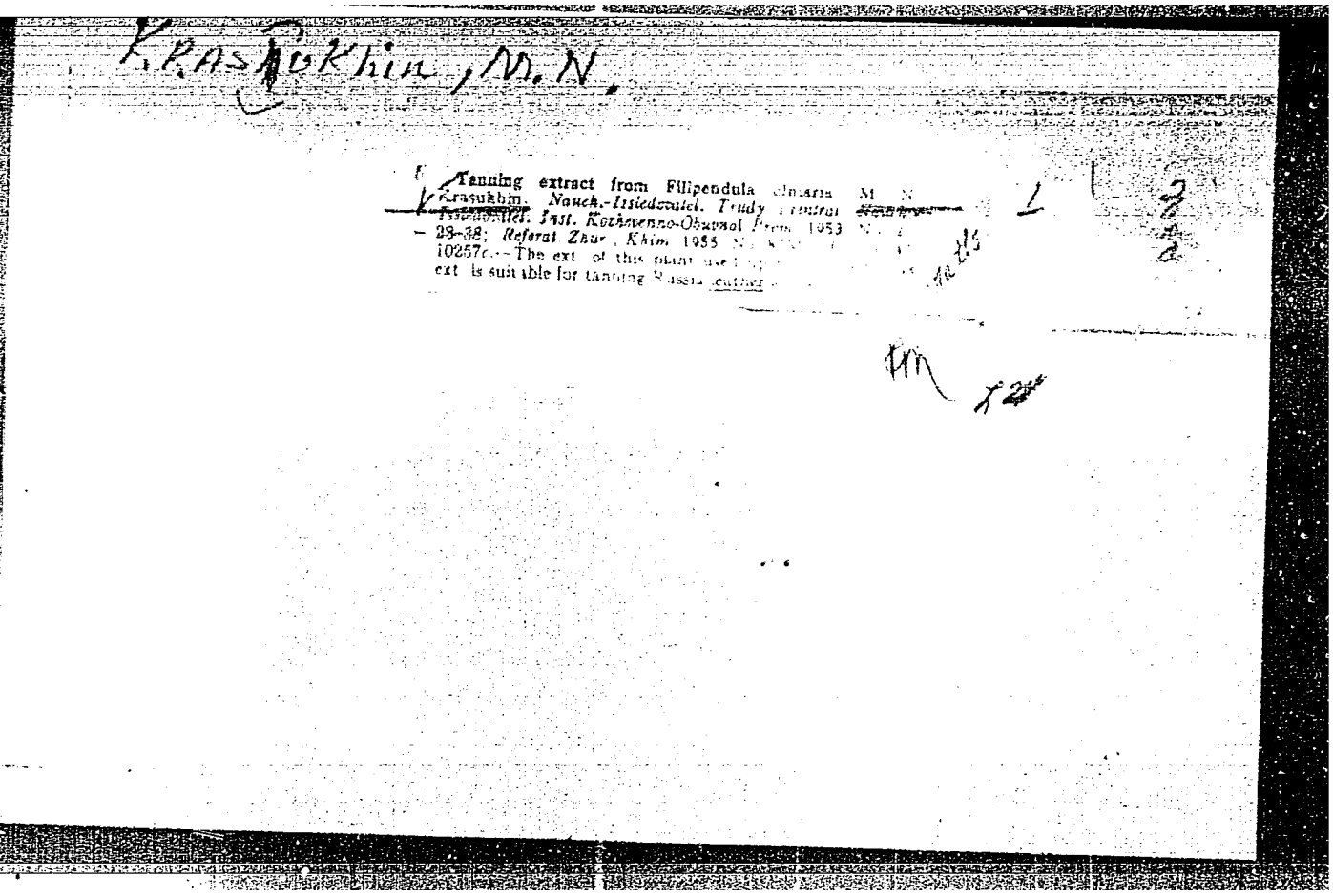
Tanning

Better utilization of tanning materials. Leg. prom. 12 no. 6, 1952.

Monthly List of Russian Accessions. Library of Congress. October 1952. UNCLASSIFIED.

KRASUKHIN, M.N.

Tanning extract from eucolyptus bark. Legkaya Prom. 12, No.7, 20-1 '52.
(CA 47 no.19:10257 '53)
(MLRA 5:8)



K. RASTORKHIN, M. N.

Tanning extract from Filipendula ulmaria M. N. Krasukhin. *Nauch.-Issledovatel. Trudy Tsentral Issledovatel. Inst. Kozhevenno-Obuvnoi Prom.* 1953 No. 1, 28–38; *Referat Zhur., Khim.* 1955 No. 10257.—The ext. of this plant use[d] ext. is suitable for tanning Russia [illegible]

KRASUKHIN, M.N., kandidat tekhnicheskikh nauk; MIKHAYLOV, A.N., doktor tekhnicheskikh nauk.

Tanbark molding. Leg.prom. 15 no.12:31-32 D '55. (MLRA 9:5)
(Tannins)

KRASUKHIN, M.N.; MIKHAYLOV, A.N.

Treatment of fresh tanning agents. Leg.prom.15 [i.e.16] no.3:31-33 Mr '56. (Tanning) (MLRA 9:7)

KRASUKHIN, M.N., PAVLOV, L.P.; RUBAKHIN, V.N.; TORSUYER, V.N.

Improve the quality of willow liquor. Leg.prom. 18 no.10:27-30 O '58. (MIRA 11:11)

(Tanning materials) (Willows)

KRASUKHIN, M.N., starshiy nauchnyy sotrudnik; YAKADIN, A.I.

Improving the quality of oak liquor. Leg.prom. 18 no.11:36-38 N '58. (MIRA 11:12)
(Tanning materials) (Oak)

GOLUBEVA, S.K., kand.tekhn.nauk; KRASUKHIN, M.N., kand.tekhn.nauk; KURAYTIS, S.A., kand.tekhn.nauk; TOPOROVSKAYA, Kh.S., kand.tekhn. nauk; FRENKEL', P.Ya., kand.tekhn.nauk; KORZINA, Ye.S., mladshiy nauchnyy sotrudnik; FILIPPOVA, N.B., mladshiy nauchnyy sotrudnik

Works of the Central Scientific and Technical Institute of the Leather and Footwear Industry in the field of tanning materials. Nauch.-issl. trudy TSNIKP no. 30:27-46 '59. (MIRA 14:5)
(Tanning materials)

FRENKEL', P.Ya.; KRASUKHIN, M.M.; VOLKOV, N.V.; KARPMAN, M.I.; MAYOROVA, Ye.I.

Using the ion exchange method for refining tanning bark extracts. Kozh.-obuv.prom. 2 no.7:28-30 Jl '60. (MIRA 13:8)
(Tanning materials) (Ion exchange)

MEZHENINOV, Mikhail Yur'yevich, inzh.; KRASUKHIN, Moisey Naumovich, kand. tekhn. nauk; YEGOROV, Boris Aleksandrovich, inzh.; NIKITIN, D.V., nauchnyy red.; MINAYEVA, T.M., red.; KNAKNIN, M.T., tekhn. red.

[Manufacture of vegetable tanning extracts]Proizvodstvo rastitel'nykh dubil'nykh ekstraktov. [By]M.IU.Mezheninov, M.N.Krasukhin, B.A.Egorov. Moskva, Rostekhizdat, 1962. 291 p. (MIRA 16:3)
(Tanning materials)

KRASUKHIN, M.N., kand.tekhn.nauk; BALBEROVA, N.A., kand.tekhn.nauk;
KURAYTIS, S.A., kand.tekhn.nauk

Artificial drying of spruce bark. Kozh.-obuv.prom. 5 no.10:
15-17 O '63. (MIRA 17:4)

EYTINGON, I.I.; KRASUKHINA, M.M.; KAVUN, S.M.; STREL'NIKOVA, N.P.; BUTYUGIN, V.K.

Transformation of the vulcanization accelerator N-cyclohexyl-benzothiazole-2-sulfenamide during thermal treatment. Kauch. i rez. 24 no.8:9-12 '65. (MIRA 18:10)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

SHULYAK, Z.N.; KRASUKHINA, M.M.; STASHENKO, Yu.M.

Characteristics of the geometric parameters of the surface of various samples of silicon dioxide. Kauch. i rez. 22 no.10: 33-34 O '63. (MIRA 16:11)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

L 3379-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5022090 UR/0138/65/000/008/0009/0012 50 47 8

44 678.044:536.45.096

AUTHOR: Eytingon, I. I.; Krasukhina, M. M.; Kavun, S. M.; Strel'nikova, N. P.; Butyugin, V. K.

TITLE: Thermal conversion of an N-cyclohexylbenzothiazole-2-sulfenamide vulcanization accelerator

SOURCE: Kauchuk i rezina, no. 8, 1965, 9-12

TOPIC TAGS: rubber chemical, organic substituted amide, organic sulfur compound, EPR spectrum, thermochemistry, free radical, vulcanization, reaction mechanism, heat resistance

ABSTRACT: The effect of rubber mixing and vulcanization temperatures on the conversion of sulfenamide Ts [Abstractor's note: Compound corresponds to "Santocure."] and the effect of additives on the thermal stability of this vulcanization accelerator were studied. Heating of the sulfenamide samples at 105-110C for 2 and 6 hours did not produce significant change in the melting of the material except to lower its melting temperature slightly. Thermal decomposition of the sulfenamide at 140 -145 C is preceded by an induction period whose length depends

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on the impurities present. Decomposition is accompanied by spontaneous temperature increase and evolution of hydrogen sulfide and amine. 2-Mercaptobenzothiazole, its cyclohexylamine salt, and 2,2'-dibenzothiazyldisulfide were separated and identified among the resinous decomposition products. The effects of adding these three compounds or sulfur to mixes containing the sulfenamide were studied. Sulfur had the greatest effect on the thermal stability of the accelerator at 140-145 C, and the addition of 1% sulfur on weight of the sulfenamide reduced the induction period from 150 to 10 minutes. Examination of EPR spectra established that the thermal decomposition of this sulfenamide is a radical chain process. The presence of benzothiazolesulfide radicals was indicated. Orig. art. has: 3 figures and 4 equations

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