KORCHAGIN, S.M.; SLOBOZHAN, I.I., red.; SMIRNOV, P.S., tekhn.red.

[The streets of Leningrad; a concise directory] Ulitsy Leningrada; kratkii spravochnik. [Leningrad] Lenizdat, 1957. 90 p.
(MIRA 10:11)
(Leningrad--Streets)

KORCHAGIN, S.T.

Device counting out equal time intervals. Fiz. v shkole 20 no.6:73 N-D '60. (MIRA 14:2)

1. Belgresovskaya srednyaya shkola, Vitebskaya oblast'.
(Pulse circuits)

KORCHAGIN, V.

Pioneers (Communist Youth)

Be prepared to fight for the Lenin-Stalin cause. Rabotnitsa 30 no. 5, '52.

Monthly List of Russian Accessions, Library of Congress, August 1952, Unclassified.

KORCHAGIN, V.; CHUDAKOV, V.; ROVNYKH, A.; PLATONOV, V.; DENISOV, Yu.; LYUBAKOV, V.; LEVASHOV, L.; GROYSMAN, E.; YUMATOV, V.; MOSIN, V.

Designing, constructing, flying. Tekn. mol. 26 no.3:31 '58.
(MIRA 11:3)

1. Predsedatel' soveta Osobogo konstruktorskogo byuro (for Korchagin). 2. Chleny soveta Osobogo konstruktorskogo byuro (for all except Korchagin).
(Airplanes--Design and construction)

69063
S/085/60/000/03/029/062
D001/D003

(1.6000

AUTHOR: Korchagin, V., Student

TITLE: A Self-Propelled Motor-Driven Winch

PERIODICAL: Kryl'ya rodiny, 1960, Nr 3, p 19 (USSR)

ABSTRACT: Kazan' Aviation Institute has designed and tested a new self-propelled motor-driven winch (the KAI-TL) for towing gliders (e.g. the KAI-11) on the ground and into the air. Its basic data are: engine-power 11hp; pull on grapple while hauling 170 kg; strain on cable while towing at 1st speed (wind-speed 7m/s) 150 kg; strain on cable while towing at 2nd speed (wind-speed 5 m/s) 120 kg; strain on cable while towing at 3rd speed (wind-speed 0 ÷ 2 m/s) 70-65kg; strain on cable while towing at 4th speed (wind-speed 0m/s) 45kg. The winch's top-speeds are 30 km/h over land and (when fitted with skids) 60 km/h over snow. The KAI-TL is fitted with the motor and power drive of an IZh-49 motorcycle and the a/c generator from a K-125 motorcycle. The winding drum takes

Card 1/2

69063

S/085/60/000/03/029/062
D001/D003

A Self-Propelled Motor-Driven Winch

1,600 m of 3 mm cable. There is 1 set of diagrams.

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan' Aviation Institute)

Card 2/2

KORCHAGIN, V.

Early-spring work in a garden. Inform. biul. VDNKH no.2:30 F '65. (MIRA 18:3)

1. Direktor Stantsii zashchity rasteniy na Vystavke dostizheniy narodnogo khozyaystva SSSR.

KORCHAGIN, V. (g.Kazan')

"Start" tow truck for gliders. Kryl.rod. 11 no.7:21 Jl '60.
(MIRA 13:7)

(Kazan--Gliding and soaring)

KORCHAGIN, V.A., inzh.

Spiral-type wet-gas holders. Prom. stroi. 38 no. 12:52-55 '60.
(Gasholders) (MIRA 13:12)

CATEGORY : Soil Science. Tillage. Improvement. Erosion

ABS. JOUR. : RZhBiol., No.3 1959, No.10706

AUTHOR : Korchagin, V. A. Porot'kin, Ye. I.
INST. : Kuybyshev State Experiment Station
TITLE : Results of Experiments on the Study of New Methods of Soil Tillage.

ORIG. PUB. : Byul. nauchno-tekhn. inform. Kuybyshevsk. (Buzanchuksk.) gos. s.-kh. opytn st., 1957, 1, 3-11

ABSTRACT : Deep subsurface tillage (without inversion) of bare fallow at Kuybshev Station secured better absorption of autumn-winter precipition, promoted destruction of weeds and increased the yield of rye grain in comparison with the usual lowing of bare fallow. The full subsurface tillage (without inversion) increased the yield of grain crops by 1-3.5 centners/ha but on weed contaminated plants, it promoted a still greater contamination of the

CARD: 1/2

KORCHAGIN, V.A., inzh.

Steel, water-sealed gasholder with extralow pressure. Prom. stroi. 41 no.10:39-41 O '63. (MIRA 16:11)

KORCHAGIN, V.A., kand. sel'skokhoz. nauk; KARANDAYEV, I.G.

Accumulation of moisture and weed control in early fall-plowed planed fields. Zemledelie 25 no.7:33-35 Jl '63. (MIRA 16:9)

1. Bezenchukskaya selektsionno-opytnaya stantsiya.
(Russia, Southern--Weed control)
(Russia, Southern--Soil moisture)
(Russia, Southern--Plowing

KORCHAGIN, V.A., inzh.

Prestressed pipe for a metallurgical plant. Prom. stroi. 39 no.5:30-33 '61. (MIRA 14:7)

(Cherepovets--Pipe, Steel)

KORCHAGIN, V.A., inzh.; BERDICHEVSKIY, G.A.

Prestressed concrete floating gasholder. Prom.stroi. 39 no.8:48-50 '61. (MIRA 14:9)

(Gasholders)
(Prestressed concrete construction)

KALIBERDA, V.M., kand. sel'skokhoz. nauk; SULIMOVSKIY, I.G., kand. sel'skokhoz. nauk; BUKHAN'KO, Ye.P.; LOGVINENKO, V.A., agronom; KOVALENKO, A.P.; PODGORNYY, P.I., prof. zasluzhennyy deyatel' nauki Ukrainskoy SSR; FEDOTOV, V.A., aspirant; KURBATOV, I.D., agronom; KOZEYEV, V.I.; SHCHETININ, A.I.; KORCHAGIN, V.A., kand. sel'skokhoz. nauk; SOGURENKO, V.P.; KOSTROV, K.A., kand. sel'skokhoz. nauk; DULYA, F.M.; SHERSTNEV, N.F., aspirant

Crops preceding winter crops in various zones. Zemledelie 27 no.7: 26-45 Jl '65. (MIRA 18:7)

1. Ukrainskaya sel'skokhozyaystvennaya akademiya (for Kaliberda). 2. Odesskiy sel'skokhozyaystvennyy institut (for Sulimovskiy). 3. Odesskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Bukhan'ko). 4. Kolkhoz imeni Kirova, Mar'inskogo rayona Donetskoy oblasti (for Logvinenko). 5. Donetskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kovalenko). 6. Voronezhskiy sel'skokhozyaystvennyy institut (for Fedotov). 7. Alekseyevskoye rayonnoye proizvodstvennoye upravleniye sel'skogo khozyaystva, Belgorodskoy oblasti (for Kurbatov). 8. Bezenchukskaya sel'skokhozyaystvennaya opytnaya stantsiya (for Korchagin). 9. Direktor Bykovskoy opytnoy stantsii bakhchevodstva (for Sogurenko). 10. Mordovskaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kostrov). 11. Direktor sovkhoza "Khleborobnyy", Smolenskogo rayona, Altayskogo kraya (for Dulya). 12. Altayskiy sel'skokhozyaystvennyy institut (for Sherstnev).

KORCHAGIN, V.A., inzh.

Corrosion protection of the steel elements of water-sealed gasholders. Prom. stroi. 41 no.2:38-40 F '63. (MIRA 16:3)
(Gasholders—Corrosion)
(Corrosion and anticorrosives)

MILLER, Viktor Yakovlevich, inzh.; KORCHAGIN, Vladimir Aleksandrovich, inzh.; TOLOKONNIKOV, Vladimir Gerasimovich, inzh.; MUKHANOV, K.K., kand. tekhn. nauk, retsenzent; KUZNETSOV, V.V., inzh., retsenzent; ZELYATROV, V.N., inzh., nauchn. red.

[Steel structures in a blast furnace - gas purification complex] Stal'nye konstruktsii kompleksa domennoi pechi i gazoochistki. Moskva, Stroiizdat, 1965. 278 p.
(MIRA 18:4)

CA KORCHAGIN, V.B.

Changes in the chemical composition of diphtheria bacteria depending on the age of the culture. A. N. Belozerskii, V. B. Korchagin, and T. I. Smirnova (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 71, 89-92(1950).—Diphtheria bacteria carry a high content of polynucleic acids (from the results of purine N detn. and nucleic C). The nucleic acid level however declines with age and in 10 days is but 25% of that in 1 day culture; pentosepolynucleotides are most affected. The pentose analyses reflect not only these substances but also the polysaccharides, as is shown by large deviations of nucleic acid content calcd. by P content or by pentose analysis, especially in older cultures. The protein content rises slightly with age, possibly at the expense of the decompg. nucleotides. A 2-day culture yields 8% of a nucleoprotein contg. 16.2% N, 2.19% P and 8.67% pentose, and 6% of free nucleic acid (14.89% N, 8.32% P, 30.79% pentose); a 6-day culture yields only 4% nucleoprotein contg. 1.17% P, which also contains pentose. Thus, the pentosepolynucleotides exist in 2 states: protein bound and free, the latter being subject to a substantial decline with culture age. These substances are the carriers or the foundations of bacterial volutin which function had been erroneously ascribed to metaphosphates (cf. Wiame, *C.A.* 41, 3502i). G. M. Kosolapoff

C.A. KORCHAGIN, V. B.

11B

Determination of nitrogen of purine bases. V. B. Korchagin. *Vestnik Moskov. Univ.* 6, No. 5, *Ser. Fiz.-Mat. i Estestven. Nauk* No. 3, 119-22(1951).—The following method is recommended as a result of tests with a wide variety of purine-bearing materials. A sample of 20-80 mg. is hydrolyzed 1 hr. at reflux with 4 ml. of equal vols. N HCl and 10 N HCO_2H. The hot soln. is neutralized with 40% NaOH to pH 4.5-4.7, filtered, and the ppt. washed with small portions of water. The soln. in a 15-25 ml. volumetric flask is mixed with 20-25% tannin soln. added dropwise until all high-mol. degradation products are pptd. (excess avoided), dild. to the mark and filtered through a dry filter. A 3 ml. sample is treated with 2-3 ml. citrate buffer (pH 5), then with 0.3-0.8 ml. 1% suspension of cuprous hydroxide (made from Fehling soln. and glucose). The mixt. is shaken, the ppt. is centrifuged down, washed, and transferred to Kjeldahl app. where the usual N detn. is made. In presence of proteins 93-0% of purines can be thus estd. G. M. Kosolapoff

KORCHAGIN, V.E. --

"On the Metaphosphates of Yeast and the Chemical Properties of Volutin." Cand Biol Sci, Inst of Biochemistry imeni A.N. Bakh, Acad Sci USSR, 28 Oct 54. (VM, 18 Oct 54)

Survey of Scientific and Technical Dessertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

KARTSEVA, V.D.; CHEKULAYEVA, Yu.S.; KORCHAGIN, V.B.; BRUNS, B.P.

Determination of streptomycin a culture solutions obtained from an enriched medium. Antibiotiki 5 no.4:50-53 Jl-Ag '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCIN)

YERMAKOVA, N.M.; BRUNS, B.P.; KORCHAGIN, V.B.

Investigation of the solubility of hydrochloride chlortetracycline in water. Med. prom. 14 no.9:51-53 S '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(CHLORTETRACYCLINE)

KORCHAGIN, V.B.; SEMENOV, S.M.; SAVUSHKINA, I.N.

Colorimetric method for the determination of erythromycin.
Antibiotiki 6 no.4:311-314 Ap '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)

KORCHAGIN, V.B.; KOROBITSKAYA, A.A.; CHAYKOVSKAYA, S.M.

Colorimetric method for determining kanamycin. Antibiotiki 7 no.6: 562-566 Je '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(KANAMYCIN) (COLORIMETRY)

KORCHAGIN, V.B.; KOROBITSKAYA, A.A.; DRUZHININA, Ye.N.; SEMENOV, S.M.

Quantitative method for determining neomycin in a fluid culture medium. Antibiotiki 7 no.2:124-128 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(NEOMYCIN)

KORCHAGIN, V.B.; YERMAKOVA, N.M.; DRUZHININA, Ye.N.

Iodometric method of determining 6-aminopenicillanic acid. Antibiotiki 7 no.5:449-453 My '62. (MIRA 15:4)
(IODOMETRY) (PENICILLANIC ACID)

YERMAKOVA, N.M.; KORCHAGIN, V.B.; YAKULENKO, N.A.; SIDOROVA, A.I.

Physical and chemical methods for determining antibiotics.
Report No.12: Comparison of physical and chemical methods
in the determination of the antibiotic, erythromycin.
Med. prom. 15 no.11:50-52 N '61. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)

KORCHAGIN, V.B.; SAVUSHKINA, L.N.

Spectrophotometric method of determining nystatin. Antibiotiki 8 no.7:634-638 Jl '63 (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

KORCHAGIN, V.B.; KOROBITSKAYA, A.A.

Colorimetric method of determining nystatin. Antibiotiki 8 no. 11:1049-1051 N '63. (MIRA 17:9).

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

SEMENOV, S.M.; KORCHAGIN, V.B.; NAUMOVA, R.G.; SAVUSHKINA, L.N.

Study on the stability of the antiphage action of fumagillin.
Antibiotiki 9 no.1:81-84 Ja '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

KORCHAGIN, V.B.; MITRONOVA, R.M.; VAKULENKO, N.A.

Spectrophotometric determination of erythromycin. Antibiotiki 9 no.9:851-854 S '64. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

FILONENKO, G.K.; KORCHAGIN, V.D.

Kinetics of the drying process in an air flow through material layers [with summary in English]. Inzh.-fiz.zhur. 1 no.8:39-45 Ag '58. (MIRA 11:8)

1.Tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti, Odessa.
(Drying)

KORCHAGIN, V.D.

Effect of the structure of a layer on its hydraulic properties. Izv. vys. ucheb. zav.; pishch. tekh. no.3:124-127 '58. (MIRA 11:9)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti, Kafedra sushki.

(Fluidization)

KORCHAGIN, V.D.

Drying vegetables in a layer. Inzh.-fiz.zhur. no.11:67-72 N '58. (MIRA 12:1)

1. Tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti, g. Odessa.
(Vegetables—Drying)

KORCHAGIN, V. D., Candidate of Tech Sci (diss) -- "Investigation of the process of fruit drying in an air stream perpendicular to the layer of material". Odessa, 1959. 15 pp (Min Higher Educ Ukr SSR, Odessa Tech Inst of the Food and Refrigeration Industry), 150 copies (KL, No 21, 1959, 115)

KORCHAGIN, V. I. I FROLOV, A. I.

36085 Opyt unifikatsii seriynoy apparatury (na zavode im. Kulakova). Priborostroyeniye, vyp. 4, 1948, S. 33-43.

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

KORCHAGIN, V.I.; OSTROVSKIY, F.Ya.; TEREKHOV, Yu.N.

Methods of aerogeophysical prospecting for rare elements deposits. Geol. mest. red. elem. no.20:27-52 '63.
(MIRA 17:5)

KORCHAGIN, V.I.

EKP-3-59 device for measuring magnetic susceptibility. Biul. nauch.-tekh.inform.VIMS no.1:41-44 '60. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.
(Geophysical instruments) (Rocks--Magnetic properties)

OSTROVSKIY, P.Ya.; KORCHAGIN, V.I.

Aerogeophysical methods and the possibility of their use in prospecting for mineral deposits. Geol. mest. red. elem. no.20:5-19 '63. (MIRA 17:5)

GINZBURG, A.I.; KORCHAGIN, V.I.

Rare element deposits and characteristics of aerogeophysical anomalies related to them. Geol. mest. red. elem. no.20, 19-27 '63.

Conclusion. Ibid.:116-117 (MIRA 17:5)

MELENT'YEVA, Galina Aleksandrovna, dots.; SHCHUKIN, P.I., red.; KORCHAGIN, V.I., red.

[Pharmaceutical chemistry of certain natural substances with strong biological action; manual for students of pharmaceutical institutes (faculties)] Farmatsevticheskaia khimiia nekotorykh prirodnykh veshchestv s sil'nym biologicheskim deistviem; uchebnoe posobie dlia studentov farmatsevticheskogo instituta (fakul'tetov). Moskva, I-i Mosk. in-t im. I.M.Dokuchaeva, 1964. 193 p. (MIRA 17:9)

KORCHAGIN, V.K., inzh.; PASSEK, G.A., inzh.

Testing rubber-metal bearing parts. Transp.stroi. 13 no.9:57-59 S '63. (MIRA 16:12)

KORCHAGIN, V.K., inzh.; PASSEK, G.A., inzh.

Rubber-metal supporting sections of a railroad bridge.
Transp.stroi. 14 no.12:15-16 D '64.
(MIRA 19:1)

ALEKSEYEV, Yu.M. [Alekaieiev, IU.M.]; KORCHAGIN, V.L. [Korchahin, V.L.]

Characteristics of the mineralogical and chemical composition of clays useful for the production of keramzit. Geol. zhur. 25 no.2:80-83 '65. (MIRA 18:6)

1. Dnepropetrovskaya geologicheskaya ekspeditsiya Ukrainskogo nauchno-issledovatel'skogo gornorudnogo instituta.

ALEKSEYEV, Yu.N., inzh.; KORCHAGIN, V.I., inzh.

Additive expanding clay material. Stroi.mat. 10 no.12:23 D '64.
(MIRA 18:1)

KORCHAGIN, V.N., agronom-entomolog

Summer work in the orchard. Zashch. rast. ot vred. i bol. 8 no.6:53-54 Je '63. (MIRA 16:8)

(Fruit--Diseases and pests)

KORCHAGIN, V.N., agronom-entomolog

Controlling aphids in fruit plantations. Zashch. rast. ot vred. i bol. 8 no.5:55 My '63. (MIRA 16:9)
(Fruit—Diseases and pests)
(Plant lice—Extermination)

KUZ'MINA, N.K.; BULGAKOVA, A.A.; ZVORYKIN, V.I.; KORCHAGIN, V.N.

Determining the parameters of shock waves of charge explosions from the detonating cord under various conditions. Neftegaz. geol. i geofiz. no.4:47-51 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki i Moskovskoye vysshaye tekhnicheskoye uchilishche im. Baumana.

KORCHAGIN, V.N., agronom po zashchite rasteniy; VORONOV, F.P., ispolnyayushchiy obyazannosti starshego nauchnogo sotrudnika; DIUNOV, V.I.; MYAKEMYAYNEN, S.

For an amateur fruitgrower. Zashch. rast. ot vred. i bol. 9 no.10:37-39 '64 (MIRA 18:1)

1. Institut sadovodstva nechernozemnoy polosy (for Voronov). 2. Upravlyayushchiy Yaroslavskoy oblastnoy kontoroy "Sortsemovoshch" (for Diunov). 3. Leningradskaya stantsiya zashchity zelenykh nasazhdeniy (for Myakemyaynen).

KORCHAGIN, V.N.; YERMOLAYEVA, I.A.

Hexachloran in the control of the strawberry mite Steneotarsonemus pallidus. Zashch. rast. ot vred. i bol. 8 no.10:22-23 O '63. (MIRA 17:6)

1. Stantsiya zashchity rasteniy na Vystavke dostizheniy narodnogo khozyaystva SSSR.

KORCHAGIN, V.N., agronom po zashchite rastenii

Summer work in orchards and berry patches. Zashch. rast. ot vred. i bol. 9 no.6:35-37 '64 (MIRA 17:8)

KOVUN, P.K., NEVZOROV, A.P., ANTONENKO, G.P.,; BUDINA,L.V.; VORONINA, Ye.P.; GUSEV, P.I.: YELAGIN, M.N., ZHURAVLEV, M.A., ZALOZNYY, K.D.: KOMKOV,V.M.; KOROBOV, A.S.;KORCHAGIN, V.N.; LAVROV, V.N.; LAPSHINA, O.V.; LUTIKOV,I.Ye.; MAKEVNIN, A.Ya.;MOROZOVA, F.I.;NEVZOROV, A.P.;PONOMARCHUK, M.K.;PUCHKOV, A.M.; RAZMOLOGOVA, A.M.;RUBIN, S.M.; SELEZNEVA, O.V.;SEMENOVA, F.I.; SPIRIDONOVA, A.I.;SUSHCHEVSKIY, M.G.;USOV, M.P.; TARKOVSKIY, M.I.; CHERNYKAYEVA, Ye.A.;SHENDRIKOV, G.L.; SHUL'GIN, G.T.;TSITSIN, N.V.,akademik, redaktor;REVENKOVA, A.I.,redaktor; KHOKHRINA, N.M., khudozhestvennyy redaktor; VESKOVA, Ye.I., tekhnicheskiy redaktor; PEVZNERV.B.I., tekhnicheskiy redaktor.

[Plant breeding at the 1955 All-Union Agricultureal Exhibition] Rastenievodstvo na Vsesoiuznoi sel'skokhoziaistvennoi vystavke 1955 goda. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1956. 687 p. (MLRA 10:4)
(Moscow--Plant breeding--Exhibitions)

KOLESNIKOV, Venedikt Andreyevich, prof., doktor sel'skokhoz.nauk; ZHURIN, Aleksey Borisovich, agronom; KAPTSINEL', Mikhail Abramovich, agronom; KAPTSINEL', Anna Petrovna, agronom; KOVAL', Alla Alekseyevna, kand.sel'skokhoz.nauk; KORCHAGIN, Vladimir Nikolayevich, entomolog; ZUBAREV, N.A.; LUR'YE, B.D., red.; RAZGOLYAYEVA, N.G., tekhn.red.

[Amateur fruitgrower's reference manual] Kalendar'-spravochnik sadovoda-liubitelia. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1959. 494 p. (MIRA 13:4)

(Fruit culture)

ZHURAVLEV, M. A.; KORCHAGIN, V. N.

Station for plant protection at the Exhibition of Achievements of the National Economy of the U. S. S. R. Zashch. rast. ot vred. i bol.. 5 no.11:13-15 N '60. (MIRA 16:1)

1. Direktor Stantsii zashchity rasteniy na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Zhuravlev). 2. Tekhnicheskiy rukovoditel' Stantsii zashchity rasteniy na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Korchagin).

(Moscow—Exhibitions)
(Plants, Protection of—Exhibitions)

KAPTSINEL', Mikhail Abramovich; KOLESNIKOV, Ye.V.; KORCHAGINA, V.A.; KORCHAGIN, V.N.; SMOYANINOVA, N.K.; YEFIMOV, A.L., red.; MAKHOVA, N.N., tekhn. red.

[Fruit culture] Plodovodstvo; uchebno-spravochnoe posobie dlia IX-XI klassov sel'skoi srednei shkoly s proizvodstvennym obucheniem. [By]M.A.Kaptsinel' i dr. Moskva, Uchpedgiz, 1963. 327 p. (MIRA 16:5)

(Fruit culture)

IVANOV, Ye.G.; KORCHAGIN, V.N.; TSYUPA, N.I.

More about multipurpose drilling crews. Neft. khoz. 42 no. 5: 24-26 My '64. (MIRA 17:5)

KORCHAGIN, V.S.

10(3); 1(2); 1(9) PHASE I BOOK EXPLOITATION SOV/2538

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

Issledovaniya v oblasti teoreticheskoy i prikladnoy aerogidrodinamiki; sbornik statey (Research in Theoretical and Applied Aero-and Hydrodynamics ; Collection of Articles) Moscow, Oborongiz, 1959. 92 p. (Series: Its: Trudy, vyp. 111) 2,650 copies printed.

Ed. (Title page): N.S. Arzhanikov, Honored Worker of the RSFSR in Science, Professor; Ed. (Inside book): A. S. Ginevskiy, Candidate of Technical Sciences; Ed. of Publishing House: E. A. Shekhtman; Tech. Ed.: V.I. Oreshkina; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This collection of articles is intended for scientific workers, engineers, and students of advanced specialized courses.

COVERAGE: This collection of six papers is concerned with the aerodynamics of wings and shrouded propellers, hydrodynamic lubrication of bearings, and such fundamental problems as the viscosity of fluids and pressure losses due to local drags.

Card 1/4

TABLE OF CONTENTS:

ACCESSION NR: AR4020767 S/0044/64/000/001/B076/B076

SOURCE: RZh. Matematika, Abs. 1B371

AUTHOR: Korchagin, V. S.

TITLE: The impact of a disk on the surface of a compressible liquid

CITED SOURCE: Sb. Materialy* 4-y nauchn. konferentsii aspirantov. Rostovsk. un-t. Rostov-na-Donu, 1962, 44-47

TOPIC TAGS: disk impact, ideal compressible liquid, liquid velocity, liquid pressure, differential equation, double integral, L. N. Flitman method

TRANSLATION The author considers the plane linear problem of the impact of a flat disk which has width 2a (deformable, in the general case) upon the surface of a still, ideal, compressible, liquid of infinite depth. The plane of the flow is considered as the plane of rectangular corrdinates x, z; with the x-axis directed along the free surface of the liquid in the rest position, and the z-axis directed downwards along the axis of symmetry of the disk. The

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mathematical problem consists in determining speeds $\varphi(x, z, t)$ and pressure $p(x, z, t)$ in such a way that the differential equations

$$\frac{\partial^2\varphi}{\partial t^2}+\frac{\partial^2\varphi}{\partial z^2}-\frac{1}{c^2}\frac{\partial^2\varphi}{\partial t^2}=\frac{\partial\varphi}{\partial t}+\frac{p-p_0}{\rho}=0,$$

as well as the initial and boundary values $z = 0$, $t > 0$; $\varphi = 0$ for $|x| > a$; $\frac{\partial\varphi}{\partial z} = V(x, t)$ for $|x| < a$,

$$\varphi=0, \frac{\partial\varphi}{\partial t}=0 \text{ при } t=0, z>0,$$

are satisfied; c is the velocity of sound in the still liquid; p is the density of the liquid at rest; V(x,t) is the given velocity of the disk. Assuming that the motion is symmetric with respect to the Z-axis, the author derives a formula expressing $\varphi(x,z,t)$ by means of a double integral, with a certain kernel, from the function

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The function $\Psi(x,t)$ is constructed, applying the method of L. M. Flitman (RZh Mat. 1959, 11069)

Ya. Sekerzh-Zen'kovich

DATE ACQ: 03Mar64 SUB CODE: MM ENCL: 00

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KORCHAGIN, V. V.

"The Lithology of the Upper Jurassic Deposits in the Southwestern Part of Tatarskaya ASSR and in the Neighboring Regions of UL'yanovskoye Povol'zhe." Cand Geol-Min Sci, Kazan' State U, Kazan', 1954. (RZhGeol, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

5(8)

AUTHORS: Korchagin, V. V., Vinokurov, V. M. SOV/20-122-6-41/49

TITLE: The "Siderite Concretions" From the Lower Cretaceous Sediments of the Ul'yanovsk Region Along the Volga (O tak nazyvayemykh sideritovykh konkretsiyakh iz nizhnemelovykh otlozheniy Ul'yanovskogo Povolzh'ya)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 6, pp 1100 - 1102 (USSR)

ABSTRACT: The occurrence of numerous concretions, which are found in Hauterivian, Barremian, and Aptian clays, are a characteristic feature of the Lower Cretaceous sediments in the Ul'yanovsk region along the Volga River. The shape, size, and type of occurrence of these concretions vary. They are chiefly dark colored - dark gray, dark brown, or black. They are frequently dense, rather firmly cemented, and contain a network of numerous contraction fissures, which are filled by coarse crystalline calcite. Most investigators (A. P. Pavlov, Ye. V. Milanovskiy, N. T. Zonov, N. G. Konovalova, K. S. Berezina, V. V. Panashchatenko, etc.) have designated these concretions by various names; they have all regarded these concretionary bodies as siderite concretions with a

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The "Siderite Concretions" From the Lower Cretaceous Sediments of the Ul'yanovsk Region Along the Volga

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mixture of clay and calcite. On the contrary, according to V. I. Loginova and Ye. A. Krzhechkovskaya, they are "clay-limy", respectively "marl" or "clayey limestone". The authors have studied these concretions using the method of V. M. Vinokurov (Kazan' State University = Kazanskiy gosudarstvennyy universitet). This method consists of determining the average specific magnetic susceptibility of the sample (in powder form). The results of their experiments are listed in Table 1, along with a chemical analysis (made by E. A. Stepanova). The following were determined as a result of their investigations: 1. None of the concretionary bodies, which are disseminated within the containing rocks without any visible controlling factors, contain appreciable quantities of siderite, regardless of their stratigraphic position. Rather, they are clay-limy contractionary bodies. 2. The concretions, which are concentrated in interbeds of the Aptian Stage, consist of spherosiderite with mixtures of calcite and clay. 3. Similar concretions in the Barremian sediments are clay-limy concretions with a

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noticeable ankerite content, but no siderite. In conclusion, the authors attempt to explain the above-mentioned distribution and composition of the concretions. There are 1 table and 1 Soviet reference.

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina (Kazan' State University imeni V. I. Ul'yanov-Lenin)

PRESENTED: June 3, 1958, by N. M. Strakhov, Academician

SUBMITTED: June 1, 1958

Card 3/3

STORONKIN, A.V.; SHUL'TS, M.M.; KORCHAGIN, V.V.

Chemical potentials and activity coefficients of the components of binary solid solutions. Vest. LGU 18 no.10:91-95 '63. (MIRA 16:8)

(Solutions, Solid) (Activity coefficients)

KORCHAGIN, V.V., inzh.; OBIDEYKO, P.I., inzh.; BERKOVICH, V.A., kand. tekh. nauk

Reprocessing of siftings at the Peredatochnyy crushing and sorting plant. Stroi. mat. 10 no.11:36 N '64.

(MIRA 18:1)

KORCHAGIN, V.V.; STORONKIN, A.V.; SHUL'TS, M.M.

Thermodynamic properties of the binary solid solution C_3Cl-C_3Br. Zhur. fiz. khim. 39 no. 1:227-230 Ja '65 (MIRA 18:1)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova. Submitted May 8, 1964.

L 12687-63 EWI(j)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pc-4 RM/JD
ACCESSION NR: AP3001598 S/0138/63/000/005/0049/0051

64
63

AUTHOR: Korchagin, Yu. M.; Savos'kina, V. P.; Tarasova, Ye. S.

TITLE: A new phenol adsorption method for determining the adsorption surface of carbon black

SOURCE: Kauchuk i rezina, no. 5, 1963, 49-51

TOPIC TAGS: carbon black, adsorption, adsorption surface, roughness, phenol adsorption

ABSTRACT: In view of the coarseness of furnace carbon black and its unsatisfactory performance as reinforcing filler in tires, it is important to know the exact coefficient of coarseness (the ratio of its adsorption surface to the geometrical surface). The authors present a simple new test for the determination of the adsorption surface of furnace carbon black PM-70. This test was recommended by the laboratory of the Scientific Research Institute of the Tire Industry, which adopted it at their carbon black plant after a thorough check. The method is based on the determination of the amount of phenol adsorbed by a weighed sample of carbon black from an aqueous phenol solution

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L 12687-63
ASSOCIATION NR: AP3001578

of known concentration, measured by interferometer. The authors added another simplification to the procedure of determining the true adsorption surface of furnace carbon black by replacing the tedious heating of 700C in a nitrogen current by an experimentally established coefficient which permits the calculation of the degassed surface of carbon black from its original one. Orig. art. has: 1 chart and 2 tables.

ASSOCIATION: Barnaul'skiy sazhevyy zavod (Barnaul Carbon Black Plant)

SUBMITTED: 00	DATE ACQ: 06Jul63	ENCL: 00
SUB CODE: 00	NO REF SOV: 000	OTHER: 000

Card 2/2

KORCHAGIN, Yu.V.; LAVROVA, M.V.

Labor and the puerperal period in cardiovascular cases.
Akush. i gin. 33 no.1:35-38 Ja-F '57 (MLRA 10:4)

1. Iz rodil'nogo doma (glavnyy vrach-zasluzhennyy vrach RSFSR Yu. V. Korchagin) glavnyy akusher-ginekolog-prof. V.P. Mikhaylov) 4-go Glavnogo upravleniya Ministerstva zdravookhraneniya SSSR.
(LABOR, compl.
cardiovasc. dis., management) (Rus)
(PUERPERIUM, compl.
cardiovasc. dis., management) (Rus)
(CARDIOVASCULAR DISEASES, in pregn.
management in labor & puerperium) (Rus)

KORCHAGINA, A., inzh., aspirant

Stresses transmitted from ships to harbor pier structures. Mor. flot 22 no.7:36-38 Jl '62. (MIRA 15:7)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta.
(Harbors—Safety measures)

KORCHAGINA, A. A. Cand Med Sci -- (diss) "Concerning the peculiarity of the secondary degeneration of the afferent conductors of the central and peripheral nervous system," Moscow, 1959, 16 pp, 200 cop. (Moscow Medical Stomatological Institute) (KL, 42-60, 116)

KORCHAGINA, A.A.

Characteristics of secondary degeneration of the afferent conductors of the central and peripheral nervous systems. Arkh. anat. gist. i embr. 41 no.7:65-71 Jl '61. (MIRA 15:2)

1. Kafedra gistologii (zav. - dotsent V.V.Anisimova-Aleksandrova) Smolenskogo meditsinskogo instituta i kafedra gistologii (zav. - prof. L.I.Falin) Moskovskogo meditsinskogo stomatologicheskogo instituta. Adres avtora: Moskva, Kalyayevskaya ul., 18, Moskovskiy stomatologicheskiy institut, kafedra gistologii i embriologii.
(NERVES, PERIPHERAL--DEGENERATION AND REGENERATION)
(NERVOUS SYSTEM--DEGENERATION AND REGENERATION)
(NERVES, SPINAL--SURGERY)

KRETOV, A.Ye.; SILIN, N.F.; KORCHAGINA, A.M.; LOKSHIN, G.B.; KITAINA, S.N.

Synthesis of terephthalic acid via chloromethyl derivatives of aromatic hydrocarbons. Zhur.prikl.khim. 33 no.10:2329-2335 O '60. (MIRA 14:5)

(Terephthalic acid)

S/080/60/033/010/022/029
D216/D306

AUTHORS: Kretov, A.Ye., Silin, N.F., Korchagina, A.M., Lokshin, G.B., and Kitaina, S.N.

TITLE: The synthesis of terephthalic acid by chloromethylation of the products of aromatic hydrocarbons

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960, 2329 - 2335

TEXT: The authors studied the synthesis of terephthalic acid from toluene and its homologues by chloromethylation. This chloromethylation is widely used in organic synthesis, being a typical electrophillic substitution reaction along following scheme:

$CH_2O + HCl \rightarrow CH_2^+ OH + Cl^-$, $ArH + CH_2^+OH + Cl^- \rightarrow ArCH_2OH + HCl$,

$$ArCH_2OH + HCl \rightarrow ArCH_2Cl + H_2O.$$

The authors, by increasing the temperature of the reaction by 20°C, (to 70-75°C) achieved the cut in synthesis time to 12 hours while

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still retaining the yields of I. Nazarov and A. Semenovskiy (Ref. 21: DAN SSSR, 12, 1437, 1956). The increase in yield of isomeric xylolchlorides was obtained by changing the proportions of toluene and formaldehyde. The optimum yield of 82.5 % was obtained with the formaldehyde content of 95 % of toluene giving a molar proportion of toluene and formaldehyde of 2:1 (formaldehyde was used in form of 40 % formalin). On the chloromethylation of ethyl benzene at 70-75°C for 25 hours a maximum yield of ethyl benzyl chloride of 90 % (on ethyl benzene used) was obtained with a proportion 1:1 of ethyl benzene-formaldehyde. The optimum yield of iso-propylbenzyl chloride was 80 % on the cumene used and with a proportion of cumene:formaldehyde of 3:1, temperature 70-75°C, time 25 hours. The authors studied the oxidation of isomeric xylolchlorides with dilute (10 %) nitric acid with an optimum yield of toluic acids, of 89 % for periods of 17-18 hours. Later, in connection with the discovery of nitroproducts, the concentration of acid was cut down to 7-5 % and the times to 12-10 hours. The yield obtained was 85 %. On oxidation of iso-propyl benzyl chloride, besides iso-propyl benzoic acid, whose yield was up to 80 %, 20 % of a product was obtained which

The synthesis of ...

was insoluble in a soda solution and which seemed to be a tertiary alcohol. The fractional precipitation of toluic acids was also used as a means of separation, by removing HCl from the solutions of sodium salts. m-toluic acid was obtained with a yield of 42.3 % and melting point 176 - 178°C, o-toluic acid with a yield of 42 % and a melting point 95 - 99°C. Dicarbonic acids were also obtained with high melting points and a yield of 15.5 %. Technical literature gives various methods of esterification of terephthalic acid, but the authors obtained dimethyl terephthalate by esterification of the acid with a large excess of methanol (48 mls. to 4 G. of acid) and in the presence of concentrated sulphuric acid. This product proved unsuitable for transesterification. Esterification of dicarbonic acids in the presence of hydrogen chloride yielded 96 % of dimethylterephthalate which did not darken on heating to 250°C. Further purification was achieved by double distillation under CO_2. The product obtained gave a melting point of 141°C, which agrees with the required standard. There are 4 tables, 1 figure and 32 references: 6 Soviet-bloc and 26 non-Soviet-bloc.

Card 3/4

The synthesis of ...

The 4 most recent references to the English-language publications read as follows: Chem. Trade J., 143, 3717, 504, 1958; J. Bengstrom, J. Org. Chem., 23, 242, 1958; Khasimato, Ono Khagakhama, Annesi, J. Chem. Soc. Japan (Ind.) 59, 1196, 1956; Am. pat 2766280 1956.

SUBMITTED: March 15, 1960

Card 4/4

MOSHCHINSKAYA, N. K.; SILIN, N. F.; DMITRENKO, Ye. Ye.; LIBERZON, V. A.; LOKSHIN, G. B.; KORCHAGINA, A. M.; Prinimali uchastiye: ZAL'TSMANOVICH, T. A.; MAMEDOV, A. A.; SAPSOVICH, L. V.; SOKOLENKO, V., student; ZEMLYANSKAYA, L., studentka

Preparation of aromatic dicarboxylic acids and their chlorides. Neftekhimia 2 no.4:541-549 Jl-Ag '62. (MIRA 15:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F. E. Dzerzhinskogo.

(Acids, Organic) (Chlorides)

GORYUNOV, Boris Fedorovich; KORCHAGINA, Antonina Yakovlevna; LAZAREVA, L.I., red.; LAVRENOVA, N.B., tekhn.red.;

[Effect of ships on harbor mooving structures] Vozdeistvie sudov na morskie prichal'nye sooruzheniia. Moskva, Izd-vo "Morskoi transport," 1961. 52 p. (MIRA 14:9)
(Piers) (Waves)

KORCHAGINA, A.Ya.

Stresses transmitted to pier structures at the approach of a vessel. Trudy TSNIIMF 7 no. 32:34-40 '61. (MIRA 14:5)
(Piers) (Strains and stresses)

ANDREYEV, Georgiy Borisovich, inzh.; VOLOBUYEV, Viktor Mikhaylovich, inzh.; GORYUNOV, Boris Fedorovich, doktor tekhn.nauk,prof.; SMIRNOV, Nikolay Andreyevich, kand.tekhn.nauk; SOBOLEV, Georgiy Aleksandrovich, inzh.; Prinimali uchastiye: ANNENKOV, Ye.N., inzh.; ZLATOVERKHNIKOV, L.F., kand.tekhn.nauk; KORCHAGINA, A.Ya., inzh.; KRIVITSKIY, S.I., inzh.; RUMYANTSEV, A.N., inzh.; LAPINA, Z.D., red.; MOSHAROVA, T.P., red.; TIKHONOVA, Ye.A., tekhn. red.

[Technical operation of hydraulic engineering structures in harbors]Tekhnicheskaia ekspluatatsiia portovykh gidrotekhnicheskikh sooruzhenii. [By] G.B.Andreev i dr. Moskva, Izd-vo "Morskoi transport," 1962. 375 p. (MIRA 15:8)
(Hydraulic structures) (Harbors)

KORCHAGINA, Antonina Yakovlevna; SKOBELING, L.V., red.; TIKHONOVA, Ye.A., tekhn. red.

[Tender buffer devices on ocean piers] Amortiziruiushchie otboinye prisposobleniia dlia morskikh prichalov. Moskva, Izd-vo "Morskoi transport," 1963. 86 p. (MIRA 16:10)
(Piers--Shock absorbers)

KOPTYUG, V.A.; BAYEVA, I.K.; SHUBIN, V.G.; KORCHAGINA, D.V.; KOMAGOROV, A.M.; REZVUKHIN, A.I.

Infrared spectra of protonated aromatic hydrocarbons. Izv. AN.SSSR.Ser.khim. no. 5:948 My '64. (MIRA 17:6)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

KOPTYUG, V.A.; REZVUKHIN, A.I.; SHUBIN, V.G.; KORCHAGINA, D.V.

Complexes of aromatic hydrocarbons with metal halides and hydrogen halides. Part 2: Proton magnetic resonance spectra of complexes of methylbenzenes with aluminum bromide and hydrogen bromide. Zhur. ob. khim. 35 no.5:864-870 My '65. (MIRA 18:6)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

KOPTYUG, V.A.; SHUBIN, V.G.; BAYEVA, I.K.; KORCHAGINA, D.V.; KOMAGOROV, A.M.; REZVICHIN, A.I.

Complexes of aromatic hydrocarbons with metal halides and hydrogen halides. Part 3. Infrared absorption spectra of complexes formed by methylbenzene with aluminum bromide and hydrogen bromide. Zhur. ob. khim. 35 no.6:1111-1116 Je '65. (MIRA 18:6)

1. Novosibirskiy institut organicheskoy khimii.

KORCHAGINA, E.I'.

Grassland farming on silty clay Podzols of southern Karelia. (MIRA 12:1)
Trudy Kar. fil. AN SSSR no.9:53-67 '57.
(Karelia--Podzol) (Grasses)

KORCHAGINA, I.A.

Comparative morphological study of the seedlings of some Betulaceae.
Bot. zhur. 50 no.3:335-349 Mr '65. (MIRA 18:5)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

KORCHAGINA, I.A.

Water-retaining capacity of certain species of forest mosses. Vest. Len.un.11 no.6:93-110 '56. (MLRA 9:7)
(Mosses)

KORCHAGINA, I.A.

Early Quaternary seed plant floras in the lower Irtysh Valley [with summary in English]. Bot. zhur. 43 no.8:1121-1134 Ag '58. (MIRA 11:9)

(Irtysh Valley--Paleobotany, Stratigraphic)

KIPIANI, M.G.; KORCHAGINA, I.A.

Method of manufacturing paleocarpological standard samples. Bot.zhur. 44 no.5:643-644 My '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut, Leningrad.
(Fruit, Fossil) (Seeds, Fossil)

KHOMENKO, Z.S.; OTLIVANCHIK, A.N.; KORCHAGINA, I.A.; MAKAROVA, M.M.

Fibrous slabs made of straw. Stroi. mat. 7 no.7:14-15 Jl '61. (MIRA 14:7)
(Straw) (Building materials)

KORCHAGINA, I.A.

Comparative study of the mode of germination and internal morphology of the seeds of some species of the birch family. Bot.zhur. 49 no.10:1487-1496 O '64. (MIRA 18:1)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.

KUDRYAVTSEV, B.B.; AKHALADZE, V.P.; KORCHAGINA, I.I.

Effect of the double layer potential on the rate of wave propagation along the interface of two liquids. Zhur. fiz. khim. 38 no.9:2309-2311 S '64. (MIRA 17:12)

KORCHAGINA, K. A.

21058 Korchagina, K.A. Rentgenograficheskaya otsenka sostoyaniya Kostnogo Transplantata, primenennogo pri ognestrel'nykh detectakh nizhney chelyusti trudy In-ta (Kazansk Nauch-issled in-t ortopedii i vosstanovit Khirurgii) t.III, 1949, s. 117-25.

SO: LETOPIS ZHURNAL STATEY - Vol. 23, Moskva, 1949

KORCHAGINA, K.A., kand.med.nauk

Late results of osteoplasty in defects of the lower jaw following gunshot wounds. Stomatologiia 37 no.1:52-54 Ja-F '58. (MIRA 11:3)

1. Iz Kazanskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii (dir. - prof. L.I.Shulutko)
(JAWS--SURGERY)

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

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Larvicidal action of Ishimbai oil-cracking by-products. K. A. Korchagina, T. P. Kornienko, and A. I. Lukashevich. *Med. Parasitol. Parasitic Diseases* (U.S.S.R.) 12, No. 3, 55-61(1943).—The effectiveness of various by-product fractions from the cracking of Ishimbai oil is shown by lab. and field expts. The recommended mixt. for malaria control in the Ufa region is a suspension of 1 kg. Paris green and 3-4 kg. oil-cracking polymer in 250 l. of water.

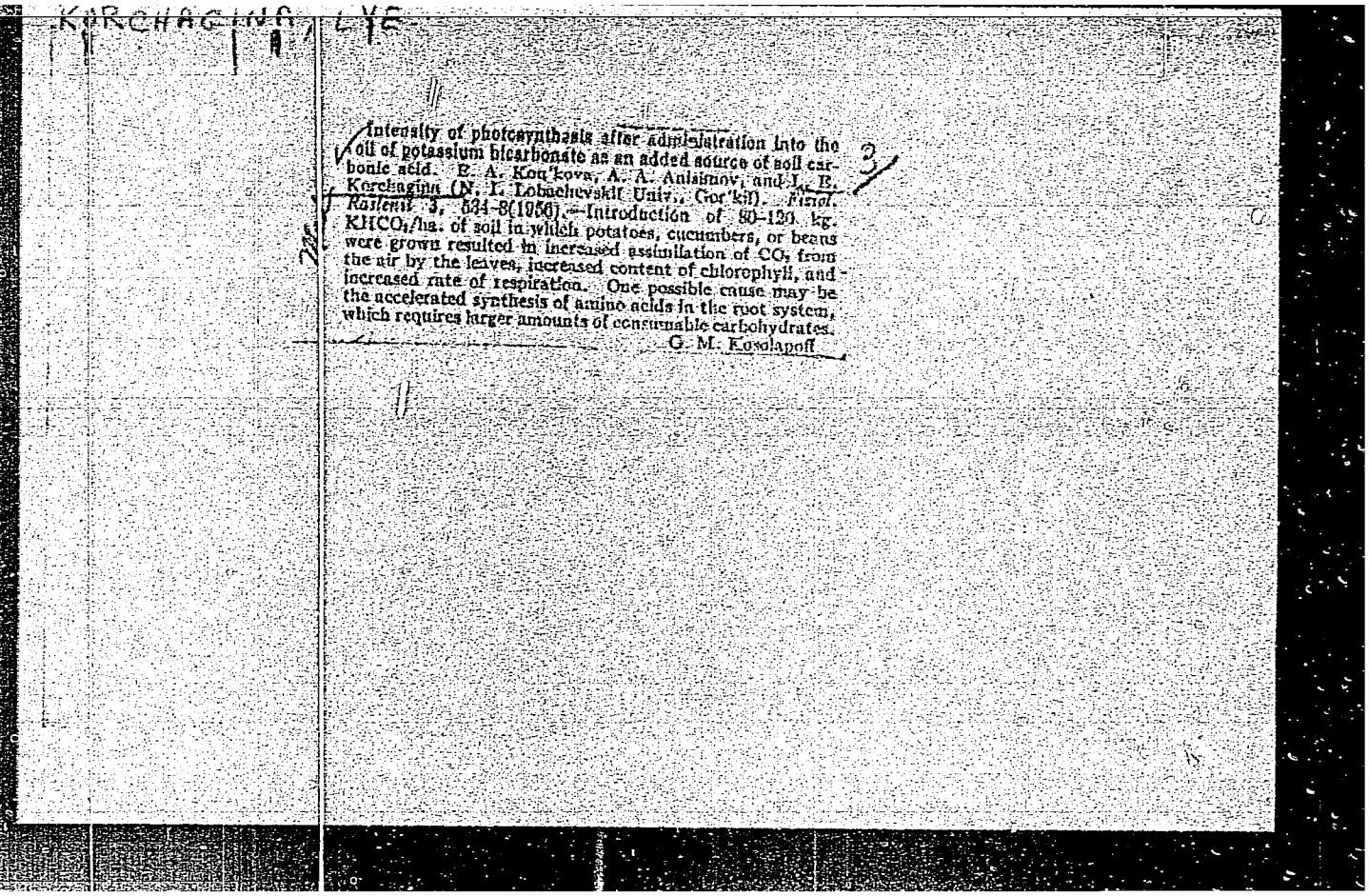
S. Gottlieb

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZHUKOVSKIY, L.I.; KORCHAGINA, K.B.

State of the cardiovascular system in tuberculosis patients of elderly and senile age. Vop. geron. i geriat. 4:240-244 '65.
(MIRA 18:5)

1. Ukrainskiy institut tuberkuleza i grudnoy khirurgii imeni akademika Yanovskogo, Kiyev.



KURCHAGINA, L.Ye.

Intensity of photosynthesis after administration into the soil of potassium bicarbonate as an added source of soil carbonic acid. E. A. Kon'kova, A. A. Anisimov, and L. E. Korchagina (N. I. Lobachevskii Univ., Gor'kii). *Fiziol. Rastenii* 3, 534-8(1956).—Introduction of 80–120 kg. $KHCO_3$/ha. of soil in which potatoes, cucumbers, or beans were grown resulted in increased assimilation of CO_2 from the air by the leaves, increased content of chlorophyll, and increased rate of respiration. One possible cause may be the accelerated synthesis of amino acids in the root system, which requires larger amounts of consumable carbohydrates.
G. M. Kovalapoff