

LIBERMAN, A.L.; VASINA, T.V.

Steric hindrances encountered in diisopentyl ketone and its derivatives. Zhur.ob.khim. 32 no.10:3233-3237 0 '62.
(MIRA 15:11)

(Ketone)
(Steric hindrance)

LIBERMAN, A.L.; VASINA, T.V.; YEZERNITSKAYA, M.G.

Linear relationships between the differences of the boiling points
of stereoisomeric methyl-prim. alkyl cyclohexanes. Neftekhimija 3
no.6:825-827 N-D '63. (MIRA 17:3)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo.

LIBERMAN, A.L.; TYUN'KINA, N.I.

Inversion of the sequence of boiling points of stereoisomeric
1,4-di-sec. alkyl cyclonexanes. Neftekhimii 3 no.6:828-834
N-D '63. (MIRA 17:3)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo.

LIBERMAN, A.L.; BRAGIN, O.V.; GUR'YANOVA, G.K.; KAZANSKIY, B.A.

Some problems in the kinetics of hydrogenolysis of cyclopentane hydrocarbons on platinized coal. Report No.1: Hydrogenolysis of methyl- and ethylcyclopentanes. Izv. AN SSSR Ser.khim. no.10: 1737-1744 0 '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

BRAGIN, O.V.; LIBERMAN, A.L.

New data on the kinetics of C_5 -dehydrocyclization of hydrocarbons.
Dokl. AN SSSR 148 no.2:338-341 Ja '63. (MIRA 16:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Predstavleno akademikom B.A. Kazanskim.
(Hydrocarbons) (Aromatization)

LIBERMAN, A.L.; BRAGIN, O.V.; GUR'YANOVA, G.K.; KAZANSKIY, B.A., akademik

Interconversions of cis- and trans-1,2-dimethylcyclopentanes
in the presence of platinum catalysts. Dokl. AN SSSR 148 no.3:
591-594 Ja '63. (MIRA 16:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Cyclopentane) (Stereochemistry)

CHICHIBABIN, Aleksey Yevgen'yevich. Prinimali uchastiye: REUTOV, O.A.; KITAYGORODSKIY, A.I., prof.; LIBERMAN, A.L., doktor khim. nauk; BAGDASAR'YAN, Kh.S., doktor khim. nauk; PLATE, N.A., kand. khim. nauk; KOLOSOV, M.N., kand. khim. nauk; BOTVINIK, M.M., doktor khim. nauk; STEPANOV, V.M., kand. khim. nauk; MEL'NIKOV, N.N., prof.; DEREVITSKAYA, V.A., doktor khim. nauk; LIBERMAN, A.L., red.; SERGEYEV, P.G. [deceased]; ROMM, R.S., red.; SHEPAK, Ye.G., tekhn. red.

[Basic principles of organic chemistry] Osnovnye nachala organicheskoi khimii. Izd.7. Pod red. P.G.Sergeeva i A.L. Libermana. Moskva, Goskhimizdat. Vol.1. 1963. 910 p. (MIRA 16:10)

1. Chlen-korrespondent AN SSSR (for Reutov).
(Chemistry, Organic)

BRAGIN, O.V.; LIBERMAN, A.L.; GUR'YANOVA, G.K.; KAZANSKIY, B.A., akademik

Hydrogenolysis and reciprocal transitions of cis- and trans-
1,2-dimethylcyclopentanes in the presence of rhodium, osmium,
iridium, and palladium catalysts. Dokl. AN SSSR. 152 no.4:
865-868 0 '63. (MIRA 16:11)

1. Institut organicheskoy khimii im. N.I. Zelinskogo AN SSSR.

GONIKBERG, M.G.; SHAKHOVSKOY, G.P.; LIBERMAN, A.L.; VASINA, T.V.

Compressibility of cis- and trans-1,3-dimethylcyclohexanes. Zhur.
fiz.khim. 37 no.8:1891-1893 Ag '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Cyclohexane) (Compressibility)

LIBERMAN, A.L.; BRAGIN, O.V.; KAZANSKIY, B.A., akademik

Hydrogenolysis of cyclohexane with the formation of n-2e ne
at atmospheric pressure. Dokl. AN SSSR 156 no. 5:1114-1117
Je '64. (MIRA 17:6)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

ZHIZHIN, G.N.; STERIN, Kh.Ye.; ALEXANYAN, V.T.; VASINA, T.V.; GIBERMAN, A.I.

Configuration of stereoisomers in a series of cis- and
trans-1-methyl-3-n. alkylcyclohexanes. Neftekhimija 4 no.2:
219-224 Mr-Ap'64 (MIRA 17:8)

1. Komissiya po spektroskopii AN SSSR i Institut organicheskoy
khimii AN SSSR imeni N.D. Zelinskogo.

LIBERMAN, A.L.; BRAGIN, O.V.; VASINA, T.V.

Catalytic dehydrocyclization of diethyl ether with the formation of a five-membered heterocyclic system. Izv. AN SSSR Ser. khim. no.7:1352-1354 J1 '64.

(MIRA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

LIBERMAN, A.L.; LERMAN, B.M.; ZHIZHIN, G.N.; STERIN, Kh.Ye.

Sequence of the boiling points of stereoisomeric 1-methyl-
and 1-ethyl-4-tert-butylcyclohexanes. Dokl. AN SSSR 156
no. 2:375-378 My '64. (MIRA 17:7)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.
Predstavleno akademikom B.A.Kazanskim.

1000: Use of chlorine tablets for sanitation of certain areas

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929810C

BRAGIN, O.V.; GUR'YANOVA, G.K.; LIBERMAN, A.L.

Kinetics of the C_5 -dehydrocyclization of o-ethyltoluene to indan. Dokl. AN SSSR 160 no.4:823-825 F '65.

(MIRA 18:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Submitted July 24, 1964.

LIBERMAN, A.L.; VASINA, T.V.; TYUN'KINA, N.I.

Relation of certain of the physical properties of stereoisomeric dialkylcyclohexanes to their structure and configuration.
Neftekhimia 4 no.3:367-370 My-Je '64. (MIRA 18:2)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo.

BRAGIN, O.V.; GUR'YANOVA, G.K.; LIBERMAN, A.L.

Catalytic conversions of diethylamine on platinum and palladium catalysts.
Izv. AN SSSR. Ser. khim. no.7:1242-1248 '65. (MIRA 18:7)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

LIBERMAN, A.L.; LERMAN, B.M.; PREOBRAZHENSKIY, A.V.

Use of thiourea adducts to separate certain dialkylcyclohexanes
into geometric isomers. Neftekhimiia 5 no.1:1-9 Ja-F '65.
(MIRA 18:5)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

LIFERMAN, A.I.; TYUN'KINA, N.I.

Freezing points of some stereoisomeric dialkylcyclohexanes.
Neftekhimija 5 no.6:902-903 H-D '65. (MIRA 19:2)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.
Submitted Dec. 28, 1964.

ZHIZHIN, G.N.; STERIN, Kh.Ye.; ALEKSANYAN, V.T.; LIBERMAN, A.L.

Spectroscopic investigation of the space configuration of dialkylcyclohexanes. Part 1: Spectral sign of cis-trans isomerism. Zhur.strukt.khim. 6 no.5:684-690 S-0 '65.

(MIRA 18:12)

1. Komissiya po spektroskopii AN SSSR i Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR. Submitted April 5, 1965.

ACC NR: AP7013155

SOURCE CODE: UR/0020/66/171/003/0616/0618

AUTHOR: Bragin, O. V.; Kulikov, O. F.; Liberman, A. L.; Kazanskiy, B. A.
(Academician)

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, AN SSSR (Institut organicheskoy khimii AN SSSR); Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Behavior of benzene and some other organic compounds in a focused laser beam

SOURCE: AN SSSR. Doklady, v. 171, no. 3, 1966, 616-618

TOPIC TAGS: laser emission, laser beam, benzene, acrylonitrile, hydrocarbon, chromatography, EPR spectrometry, UV spectroscopy

SUB CODE: 07,20,11

ABSTRACT: The authors study the effect of laser emission on comparatively simple organic molecules which transmit light in the visible region of the spectrum. Benzene, *n*-heptane, cyclohexane, cyclopentane, cyclopentene, 1,2-dichlorocyclopentane and acrylonitrile were studied by exposure to laser emission at room temperature. The experiments were done in hydrogen, air, and a partial vacuum. Chromatographic, ultraviolet and electron

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UDC: 547.532

0933 0866

ACC NR: AP7013155

paramagnetic resonance analysis showed that elemental dissociation under the effect of laser emission is characteristic for an entire series of organic compounds although the process takes place more easily for some than for others. The authors thank V. I. SHLYAPOCHNIKOV and A. A. SLINKIN for taking and identifying the ultraviolet and electron paramagnetic resonance spectra. [JPRS: 40,35]

Card 2/2

LIBERMAN, A.-M.

Organising factory accounting in cotton mill industries
Moskva, Gizlegprom, 1951. 173 p.

LIBERMAN, A. M.

"Analiza działalności gospodarczej przedsiębiorstw przemysłu lekkiego "
(Analysis of the economic activity of light industry enterprises), by A. M.
Liberman. Reported in New Books (Nowe Książki), No. 11, June 1, 1956.

LIBERMAN, Abram Moiseyevich, dotsent, kand.ekonom.nauk; POLYAK, T.B., dotsent, retsenzent; SEGAL', N.M., red.; KNAKNIN, M.T., tekhn.red.

[Labor productivity and calculation of time expended per unit of production at enterprises of the wool industry] Proizvoditel'nost' truda i raschet trudoemkosti produktsii na predpriatiakh sherstianoi promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshlennosti, 1959. 185 p.
(MIRA 13:11)

(Wool industry--Labor productivity) (Time study)

LIBERMAN, A.M., dotsent, kand.ekonomicheskikh nauk

Potential sources for the financing of maintenance and repairs. Tekst. prom. 20 no. 12:5-7 D '60. (MIRA 13:12)

1. Leningradskiy tekstil'nyy institut imeni S.M.Kirova.
(Textile industry--Finance)

LIBERMAN, Abram Moiseyevich; GOLOVASTIKOV, A.A., retsenzent; KALUSTOV, G.G.,
retsenzent; DUKHOVNIY, F.N., red.; SHVETSOV, S.V., tekhn. red.

[Analysis of the economic operations of textile and light industry
enterprises] Analiz khoziaistvennoi deiatel'nosti predpriatii tekstil'-
noi i legkoi promyshlennosti. Moskva, Izd-vo nauchno-tekhn. lit-ry
RSFSR, 1961. 278 p. (MIRA 14:8)
(Textile industry—Accounting) (Russia—Manufactures—Accounting)

LIBERMAN, A.M.

Production costs planning and accounting in textile enterprises on the basis of expenditures per ruble of production. Izv.vys.ucheb.-zav.; tekhn.tekst.prom. no.4:3-11 '61. (MIRA 14:9)

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova.
(Textile industry--Costs)

LIBERMAN, A.M., kand.ekonon.nauk

Correct evaluation of the production capacity of enterprises.
Tekst.prom. 21 no.2:14-16 Ja '61. (MIRA 14:3)
(Textile industry)

LIBERMAN, A.M.

Application of the indicator of the capital yield for the characteristic of the utilization of capital assets in textile enterprises. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.2:9-14 '65. (MIRA 18:5)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti imeni Kirova,

LIBERMAN, A.N.

Using ionizing radiations in food preservation. Vop.pit. 16 no.6:
52-56 N-D '57. (MIRA 11:3)

1. Iz kafedry voyenno-morskoy gigiyeny (nach. - prof. V.A.
Yakovlenko) Voyenno-meditzinskoy ordena Lenina akademii imeni
S.M.Kirova, Leningrad.

(FOOD PRESERVATION,
with ionizing radiations, review (Rus))
(RADIATIONS,
ionizing, food preserv., review (Rus))

LIBERMAN, A.N.

Effect of B vitamins on the resistance of the organism to the
action of radiation. Fiziol. zhur. [Ukr] 4 no.6:814-820 N-D '58.

(MIRA 12:3)

1. Sentral'naya nauchno-issledovatel'skaya laboratoriya pitaniya
Voyenno-meditsinskoy akademii im. S.M. Kirova.

(VITAMINS--B) (X RAYS--PHYSIOLOGICAL EFFECT)

LIBERMAN, A. N., Cand Med Sci (diss) -- "The effect of vitamins of the B-com-
plex on the resistance of the organism to acute radiation effects". Simferopol',
1959. 15 pp (Crimean State Med Inst im I. V. Stalin), 200 copies (KL, No 14,
1960, 137)

LIBERMAN, A.N.

Effect of gamma rays on ascorbic acid. Vop. pit. 18 no.3:94 My-Je
'59. (MIRA 12:7)

1. Iz kafedry voyenno-morskoy gigiyeny (nacg. - prof. V.A. Yakovenko)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova, Lenin-
grad.

(ASCORBIC ACID) (GAMMA RAYS)

L 28010-66 EWT(m)

ACC NR: AP6018198

SOURCE CODE: UR/0241/65/010/012/0030/0034

AUTHOR: Liberman, A. N.; Vaynshteyn, P. R.; Krisyuk, E. M.; Tikhomirova, M. D. 23
B

ORG: Leningrad Scientific Research Institute of Radiation Hygiene, Ministry of Public Health, RSFSR (Leningradskiy nauchno-issledovatel'skiy institut radiatsionnoy gigiyony Ministerstva zdravookhraneniya RSFSR)

TITLE: Characteristics of radiation sickness induced by soft rays 19

SOURCE: Meditsinskaya radiologiya, v. 10, no. 12, 1965, 30-34

TOPIC TAGS: radiation sickness, mouse, xray irradiation, blood, radiation biologic effect

ABSTRACT: The object of the experiments described in this article was to determine the effect of a single sublethal dose of soft rays on the skin, body weight, and leukocyte index of the peripheral blood of irradiated mice. Albino mice of both sexes and 24 to 29 grams in weight were used in the experiments. All of the experimental animals were subjected to the action of x-rays administered in a dose of 4,130 r. A distinct picture of radiation sickness developed in all of the animals, characterized by clearly visible lesions of the skin layers; a decrease in weight averaging 26 percent for the females and 20 percent for the males by the 21st day after the irradiation; a sharp increase in the leukocyte count of the peripheral

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UDC: 617-001.26-092.9

L 28010-66

ACC NR: AP6018198

blood. Observations established that the loss of weight and the increase in the leukocyte count of the peripheral blood coincided with the development of the skin lesions, providing a basis for the premise that they may be associated with the development of the skin affections induced by radiation sickness and marked by skin dehydration and the development of intoxication due to the decomposition of the proteins in the affected areas of the skin. Orig. art. has: 1 figure. /JPRS/

SUB CODE: 06 / SUBM DATE: 12Aug64 / ORIG-REF: 003 / OTH REF: 002

Card

2/2 pla

LIBERMAN, A. R.

The maintenance of repair equipment in agricultural enterprises Moskva, Gos. izd-vo selkhoz. lit-ry, 1950. 373 p. (50-31119)

TJ1480.L5

ARTEM'YEV, Yu.N., kandidat tekhnicheskikh nauk; ALEKSEYEV, I.A., inzhener; ASTVATSATUROV, G.G., inzhener; BISNOVATYY, S.I., inzhener; BONDARENKO, A.F., inzhener; GURAL'NIK, Ye.L., inzhener; GORBUNOV, M.F., inzhener; ZLATKOVSKIY, A.P., kandidat tekhnicheskikh nauk; KATTS, E.V., inzhener, KITAYEV, A.S., inzhener; KOZLOV, A.M., inzhener; LEONOV, P.T., inzhener; LIVSHITS, L.G., kandidat tekhnicheskikh nauk; LIBERMAN, A.R., inzhener; LINNIK, Ye.M., inzhener; LUKANOV, M.A., inzhener; MOROZOV, S.A., inzhener; POGORELYY, I.P., kandidat tekhnicheskikh nauk; PETROV, S.A., kandidat tekhnicheskikh nauk; PYATETSKIY, B.G., inzhener; RABOCHIY, L.G., kandidat tekhnicheskikh nauk; SELIVANOV, A.I., kandidat tekhnicheskikh nauk; FERBERG, B.S., kandidat tekhnicheskikh nauk; CHISTYAKOV, V.D., inzhener; CHUNIKHIN, V.M., inzhener; SHIRYAYEV, A.I., inzhener; SHCHUPAK, A.D., inzhener; KUCHUMOV, P.S., inzhener, redaktor; PETROV, S.A.; PESTRYAKOV, A.I., redaktor; BALLOD, A.I., tekhnicheskii redaktor.

[Handbook of equipment for repairing tractors and agricultural machinery] Spravochnik po oborudovaniyu dlia remonta traktorov i sel'skokhoziaistvennykh mashin. Moskva, Gos. izd-vo selkhoz. lit-ry, 1954. 646 p. (MIRA 7:11)

(Tractors--Repairing) (Agricultural machinery--Maintenance and repair)

ARTEM'YEV, Yu.N., kand. tekhn. nauk; ASTVATSATUROV, G.G., inzh.;
BARABANOV, V.Ye., inzh.; BARYKOV, G.A., inzh.; BISNOVATYY, S.I.,
inzh.; GALAYEVA, L.M., inzh.; GAL'PERIN, A.S., kand. tekhn. nauk;
GAL'CHENKO, I.I., inzh.; GONCHAR, I.S., kand. tekhn. nauk;
DECTYAREV, I.L., kand. tekhn. nauk; DYADYUSHKO, V.P., inzh.;
YERMAKOV, I.N., inzh.; ZHOTKEVICH, T.S., inzh.; ZUSMANOVICH, G.G.,
inzh.; KAZAKOV, V.K., inzh.; KOZLOV, A.M., inzh.; KOROLEV, N.A.,
inzh.; KRIVENKO, P.M., kand. tekhn. nauk; LAPITSKIY, M.A., inzh.;
LEBEDEV, K.S., inzh.; LIBERMAN, A.R., inzh.; LIVSHITS, L.G., kand.
tekhn. nauk; LOSEV, V.N., inzh.; LUKANOV, M.A., inzh.; LYUBCHENKO,
A.M., inzh.; MAMEDOV, A.M., kand. tekhn. nauk; MATVEYEV, V.A.,
inzh.; ORANSKIY, N.N., inzh.; POLYACHENKO, A.V., kand. tekhn. nauk;
POPOV, V.P., kand. tekhn. nauk; PUSTOVALOV, I.I., inzh.;
PYTCHENKO, P.I., inzh.; PYATETSKIY, B.G., inzh.; RABOCHIY, L.G.,
kand. tekhn. nauk; ROL'BIN, Ye.M., inzh.; SELIVANOV, A.I., doktor
tekhn. nauk; SEMENOV, V.M., inzh.; SKOROKHOD, I.I., inzh.; SLABODCHIKOV,
V.I., inzh.; SPORCHAK, I.M., inzh.; STRADYMOV, F.Ya., kand. tekhn.
nauk; SUKHINA, N.V., inzh.; TIMOFEYEV, N.D., inzh.; FEDOSOV, I.M.,
kand. tekhn. nauk; FILATOV, A.G., inzh.; KHODOV, L.P., inzh.;
KHROMETSKIY, P.A., inzh.; TSVETKOV, V.S., inzh.; TSEYTLIN, B.Ye.,
inzh.; SHARAGIN, A.M., inzh.; CHISTYAKOV, V.D., inzh.; BUD'KO, V.A.,
red.; PESTRYAKOV, A.I., red.; GUREVICH, M.M., tekhn. red.

(Continued on next card)

ARTEM'YEV, Yu.N.--- (continued) Card 2.

[Manual on the repair of machinery and tractors] Spravochnik po
remontu mashinno-traktornogo parka. Pod red. A.I.Selivanova.
Moskva, Sel'khozizdat. Vols.1-2. 1962. (MIRA 15:6)
(Agricultural machinery--Maintenance and repair)
(Tractors--Maintenance and repair)

LIBERMAN, A. S.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Low-Capacity Substations for Supplying Power to Commercial Enterprises."
21 February 1947. Solutions of the theoretical determination of the capacity of substations, on the basis of the minimum nonferrous metals and minimum annual consumptions, are refined and supplemented.

SO: M-1048, 28 Mar 56

KUZ'MENKO, V.K., inzhener; AFANAS'YEV, I.A., inzhener; LIBERMAN, A.S.,
inzhener; BEL'CHUK, G.A., kandidat tekhnicheskikh nauk.

Deformations in sheet-steel hull structures and ways to avoid
them. Sudostroenie 22 no.7:19-23 J1 '56. (MLRA 9:10)

(Hulls (Naval architecture)) (Deformations (Mechanics))

LIBERMAN, A.Ya.

BARDIN, I.P., akademik, otv.red.; STRUMILIN, S.G., akademik, red.; SHEVYAKOV, L.D., akademik, red.; SHCHERBAKOV, D.I., akademik, red.; ANTIPOV, M.I., red.; BELYANCHIKOV, K.P., red.; BRODSKIY, V.B., red.; YEROFEYEV, B.N., red.; LIBERMAN, A.Ya., red.; MELESHKIN, S.M., red.; ORLOV, I.V., red.; SMIRNOV-VERIN, S.S., red.; RIKMAN, V.V., red.; SAMARIN, A.M., red.; SLEDZYUK, P.Ye., red.; SKOBNIKOV, M.L., red.; SOKOLOV, G.A., red.; FREY, V.I., red.; KHLEBNIKOV, V.B., red.; SHAPIRO, I.S., red.; SHIRYAYEV, P.A., red.; KUDASHEV, A.I., red.isd-va; KUZ'MIN, I.F., tekhn.red.

[Magnetite ores of the Kustanay Province and their exploitation]
Magnetitovye rudy Kustanaiskoi oblasti i puti ikh ispol'zovaniya.
Otvetstvennyi red. I.P. Bardin. Moskva, Izd-vo Akad. nauk SSSR, 1958. 489 p. (Zhelezorudnye mestorozhdeniya SSSR). (MIRA 12:2)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.
(Kustanay Province--Magnetite)

LIBERMAN, A. Ya. and DUTKIN, G. S.

"Erection and Operation of High-Voltage Transmission Lines," (Sooruzheniye i ekspluatatsiya Vysokovol'tnykh liniy elektroperedachi), 3d Edition, revised, Gosenergoizdat, 1949, 416 pp.

SOV/124-57-9-11056

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 164 (USSR)

AUTHOR: Liberman, A. Ya.

TITLE: Present-day Status of the Problems of Vibration and Vibration Protection of Transmission Lines (Sovremennoye sostoyaniye problemy vibratsii i zashchiti ot neye vozdushnykh liniy)

PERIODICAL: Tr. Tsentr. n.-i. elektrotekhn. labor., 1956, Nr 5, pp 62-90

ABSTRACT: A study is made of the vibrations in the conductors of high-voltage aerial transmission lines. This phenomenon affects greatly the service life of the conductors and presents one of the most serious problems in the functioning of electric power transmission lines. The history of the problem is studied, also methods of calculating the natural frequency of the oscillations of a line and its amplitude. An analysis of operational data is given for the evaluation of the danger of an oscillation. A study is then made of the means of protection from vibration and methods for selecting a rational protection. Bibliography: 11 references.

G. I. Pokrovskiy

Card 1/1

LINDORF, L.S.; FUFURIN, P.N.; ULITSKIY, M.S.; USTINOV, P.I.;
ZEYLIDZON, Ye.D.; MININ, G.P.; KOTS, A.Ya.; KHAVIN, N.Z.;
MURAVLEVA, N.V.; LIBERMAN, A.Ya.; BARANOV, B.M.; ZVENIGORODSKIY,
I.S.; IVANOV, V.S.; IOFFE, F.Ye.; BURLAKOV, B.M.; MIRENBURG,
L.A.; FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn. red.

[Study manual on the technical operation of electric networks
and power plants; electrical section of electric power plants
and electric power distribution networks] Posobie dlia izuche-
niia pravil tekhnicheskoi ekspluatatsii elektricheskikh stantsii
i setei; elektricheskaya chast' elektrostantsii i elektricheskije
seti. Moskva, Gosenergoizdat, 1962. 558 p. (MIRA 15:8)
(Electric power plants—Handbooks, manuals, etc.)
(Electric power distribution—Handbooks, manuals, etc.)

ALEKSEYEV, Sergey Vladimirovich; BAUMSHTEYN, I.A., inzh.; LIBERMAN,
A.Ya.; MALOV, V.S.; RAPOPORT, M.I.; FEDOTOV, I.M.; KHOMYAKOV,
M.V., inzh.; TSAREV, M.I.; FRIDKIN, L.M., tekhn. red.

[Handbook on high-voltage power distribution networks] Spravochnik po elektricheskim setiam vysokogo napriazhenia. [By] S.V. Alekseev i dr. Izd.4., perer. i dop. Pod obshchei red. M.V. Khomiakova i I.A.Baumshteina. Moskva, Gosenergoizdat, 1962.
559 p. (MIRA 15:12)

(Electric power distribution--Handbooks, manuals, etc.)
(Electric lines--Overhead)

LIBERMAN, A.Ya.; BORACHUK, V.S.

Utilization of pneumatic conveying in the seed industry. Sakh.prom.
37 no.7:29-30 J1 '63. (MIRA 16:7)

1. Proyektno-konstruktorskiy tekhnologicheskiy institut Podol'skogo
soveta narodnogo khozyaystva (for Liberman). 2. Vinnitskiy
semennoy zavod (for Borachuk).
(Seed industry) (Pneumatic conveying)

LINDORF, L.A.; FUFURIN, N.P.; ULITSKIY, M.S.; USTINOV, P.I.;
ZEYLIDZON, Ye.D.; MININ, G.P.; KOTS, A.Ya.; KHAVIN, N.Z.;
MURAVLEVA, N.V.; LIBERMAN, A.Ya.; BARANOV, B.M.;
ZVENIGORODSKIY, I.S.; IVANOV, V.S.; IOFFE, F.Ye.
[deceased]; BURLAKOV, B.M.; MIRENBURG, L.A. [deceased];
FAYERMAN, A.L., red.

[Aid for studying engineering regulations governing the
operation of electric power plants and networks] Posobie
dlia izucheniia pravil tekhnicheskoi ekspluatatsii elektri-
cheskikh stantsii i setei. Izd.2., peresmotrennoe. Mo-
skva, Energiia, 1965. 551 p. (MIRA 18:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy proizvodstven-
nyy komitet po energetike i elektrifikatsii.

LIBERMAN, A.Ya., kand.tekhn.nauk

Concerning P.D.Protas'ev's article "Use of long 110 kv. power
transmission line spans on river crossings." Elek. sta. 36
no.10:84-85 0 '65.

(MIRA 18:10)

LIBERMAN, A.Ye. [Lieberman, O.IE.]

Apparatus for clinical investigation of pupillary orientation and photoreactions and the motion of the eyeball and lids in man. Fiziol. zhur. [Ukr.] 7 no.6:846-848 N-D '61. (MIRA 15:3)

1. Kafedra psikhiatrii Khar'kovskogo meditsinskogo instituta i Khar'kovskaya psikhonevrologicheskaya bol'nitsa.

(PHYSIOLOGICAL APPARATUS)

(EYE--EXAMINATION)

TATARENKO, N.P.; LIBERMAN, A.Ye.

Results and prospects for the use of some methodologies for physiological research in a psychiatric clinic. Zhur. vys. nerv. deiat. 14 no.2:351-357 Mr-Apr '64. (MIRA 17:6)

1. Chair of Psychiatry, Medical Institute, Kharkov, and Chair of Psychiatry, Ukrainian Institute for the Advancement of Physicians, Kiyev.

ABRAMOV, M.G., doktor med. nauk; ALEKSEYEV, G.A., prof.; ASTAPENKO, M.G., prof.; BUREYKO, V.M., dots.; VAPSHAMOV, L.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIRSKIY, I.A., prof.; KUSHKIY, R.O., doktor med. nauk; LIBERMAN, B.I.; LIKHTSIYER, I.B., prof.; LUZHETSKAYA, T.A., kand. med. nauk; MOISEYEV, S.G., prof.; NASONOVA, V.A., dots.; NESGOVOROVA, L.I.; POROSHINA, I.I.; PREOBRAZHENSKIY, A.P., dots.; RADVIL', O.S., prof.; RATNER, M.Ya., doktor med. nauk; RASHEVSKAYA, A.M., prof.; SEMENDYAYEVA, M.N., kand. med. nauk; SIGIDIN, Ya.S., kand. med. nauk; ARTEM'YEV, S.G., red.

[Therapeutist's handbook] Spravochnik terapevta. Izd.2., ispr. 1 dop. Moskva, Meditsina, 1965. 863 p.

(MIRA 18:6)

1. Deystvitel'nyy chlen AMN SSSR (for Kassirskiy).

KOZLOV, N.P.; GLUSKER, M.S.; LIBERMAN, B.L.

Goiter of large dimensions in a stillborn child. Zdrav. bel.
8 no.1:64 Ja '62. (MIRA 15:3)

1. Iz Lel'chitskoy rayonnoy bol'nitsy (glavnyy vrach N.P.
Kozlov).

(GOITER)

BRESLER, V.M.; LIBERMAN, B.M.

On severe hemorrhagic vasculitis. Sov.med. 23 no.9:40-46 S '59.

(MIRA 13:1)

1. Iz Tallinskoy respublikanskoy bol'nitsy (glavnyy vrach M.G. Smirnova, nauchnyy konsul'tant - prof. M.I. Mastbaum).
(PURPURA case reports)

LIBERMAN, B.S., inzh.

[Program in automatic control and of mechanization in machine shops for technical schools in the subjects: "Machining of metals," "Metal machining equipment," "Manufacture of forges and presses," "Tool manufacture"] Programma po avtomatizatsii i mekhanizatsii v mekhanicheskikh tsekhakh dlia tekhnikumov po spetsial'nostiam: "Obrabotka metallov rezaniem," "Metallorezhushchie stanki," "Kuznechno-pressovoe mashinostroenie," Instrumental'noe proizvodstvo." Moskva, TSentr. bure tekhn. informatsii, 1956. 9 p. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Ministerstvo stankostroitel'noy i instrumental'noy promyshlennosti. Upravleniye uchebnymi zavedyami.

(Automatic control) (Machine tools)

TERGAN, Vladimir Semenovich; LIBERMAN, Boris Sergeevich; GENIS,
Boris Mikhaylovich; YAKOBSON, M.O., nauchn. red. GORYUNCVA,
L.K., red.
[Surface grinding] Ploskoe shlifovanie. Moskva, Vys-
shaia shkola, 1964. 318 p. (MIRA 17:11)

LIBERMAN, B.S., преподаvatel'; FAYKIN, I.O., red.

[Program of mechanical training for technical schools of electro-mechanics] Programma po uchebnoi mekhanicheskoi praktike dlia elektromekhanicheskikh tekhnikumov. Moskva, 1957. 14 p.

(MIRA 11:8)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrotekhnicheskoy promyshlennosti. Upravleniye uchebnymi zavedeniyami. Metodicheskoye byuro. 2. Stanko-instrumental'nyy tekhnikum (for Liberman).
(Metal cutting)

BOYARSKIY, Lazar' Tadrisevich; KORSHIKOV, Nikolay Petrovich; ~~LIBERMAN,~~
B.S., inzh., retsenzent; YEGOROV, I.S., inzh., retsenzent;
SHUMAYEV, B.K., kand.tekhn.nauk, retsenzent; LOSKUTOV, V.V.,
kand.tekhn.nauk, retsenzent; SHARIN, Yu.S., kand.tekhn.nauk,
red.; DUGINA, N.A., tekhn.red.; EL'KIND, V.D., tekhn.red.

[Technology of the manufacture of machine tools] Tekhnologiya
stankostroeniia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1959. 371 p. (MIRA 13:2)
(Machine-tool industry)

MEL'NIKOV, N.F. [deceased]; ERISTOL', B.N.; DEMENT'YEV, V.I.;
CHIKHACHEV, S.A., inzh., retsenzent; LIBERMAN, B.S.,
inzh., retsenzent; GLEYZER, L.A., doktor tekhn. nauk,
prof., red

[Technology of the manufacture of machinery] Tekhnologiya
mashinostroeniia. Moskva, Mashinostroenie, 1965. 367 p.
(MIRA 18:4)

Shitsyn, N. A.; Tsyplyanova, N. S.; Gorenenev, M. A.; Mironov, S. Ia.
1964, 3. 3.

Method for checking antifriction bearings on a stand for limiting speed.
Class 42, No. 164155

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1964, 64

TOPIC TAGS: antifriction bearings, test chamber

Translation: A method for checking antifriction bearings on a stand for limiting speed in a testing machine with mechanical or hydraulic loading and temporarily stable lubricating conditions. In order to cut down on the length of time and the labor spent in testing, the test is carried out on one and the same small lot of bearings, for example ten units, which operate at speeds which are increased by steps. They are tested for no less than twenty-four hours each until there is an average rise in temperature of 40-50° above the ambient temperature.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut podsluzhnikovoy promyshlennosti (All-Union Scientific Research Design and Technological Institute of the Bearing Industry)

SUBMITTED: 29Oct62
Card 1/1 NO REF SOV: 000

ENCL: 00
OTHER: 000

SUB CODE: IE
JPES

LIBERMAN, B.Ya.; SPITSYN, N.A., doktor tekhn. nauk, prof.,
retsenzent

[Machines for testing antifriction bearings] Mashiny dlia
ispytaniia podshipnikov kachenila. Moskva, Mashinostroenie,
1965. 151 p. (MIRA 18:3)

ITKIN, B.Z.; LIBERMAN, D.Kh., inzh., retsentsent; VAKHONIN, L.N., inzh., red.

[Potentials of improvement in the manufacture of beds] Rezervy
krovatnogo proizvodstva. Sverdlovsk, Tsentralnoye biuro tekhn.informatsii,
1959. 32 p. (MIRA 14:4)

1. Russia (1917- R.S.F.S.R.) Sverdlovskiy ekonomicheskii admi-
nistrativnyy rayon. Sovet narodnogo khozyaystva.
(Beds and bedsteads) (Metalwork)

LIBERMAN, D.L.; PIS'MENNAYA, F.G.

[New advances in the treatment of eye diseases (antibiotics, vitamins, hormones); kratkii bibliograficheski ukazatel' 1945-1955 gg. Khar'kov, 1955. 29 p. (MIRA 13:9)

1. Kharkov. Gosudarstvennaya nauchno-meditsinskaya biblioteka.
(BIBLIOGRAPHY--EYE--DISEASES AND DEFECTS)

LIBERMAN, D.L.; ESSI-EZING, A.G., red.; BERGER, E.N., red.

[Medical control of physical education; bibliographic index of Russian literature 1941-1954] Vrachebnyi kontrol' nad fizicheskoi kul'turoi; bibliograficheskii ukazatel' otechestvennoy literatury 1941-1954 gg. Izd.2., ispr. i dop. Khar'kov, 1955. 92 p. (MIRA 13:9)

1. Kharkov. Gosudarstvennaya nauchno-meditsinskaya biblioteka. (Physical education and training--Hygienic aspects)

LIBERMAN, D.L.; CHEPURNAYA, T.D.; GENES, Semen Grigor'yevich, otv.red.

[Physiology and pathology of digestion; short bibliographical index of Russian literature 1953-1955] Fiziologiya i patologiya pishchevarenia; kratkii bibliograficheski ukazatel' otechestvennoi literatury za 1953-1955 gg. Khar'kov, 1956. 83 p.

(MIRA 13:9)

1. Kharkov. Kar'kovskaya gosudarstvennaya nauchno-meditsinskaya biblioteka.

(BIBLIOGRAPHY--DIGESTION)

VEYNGARTEN, A.; LEBEDEV, K.; LIBERMAN, M.; HEMIZOVA, Ye.; ROZEN, M.
SOKOLOV, N.

Experiment in making stainless steel propellers. Mor.flot 16
no.2:24-26 F '56. (MLRA 9:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut Ministerstva
sudostroitel'noy promyshlennosti.
(Propellers)

LIBERMAN, E., tudomanyos kutato

How the nervous system works. Elovilag 4 no.3:28-33 JL-S '59.

1. Szovjetunio Tudomanyos Akademiaja Biofizikai Intezete.

*

LIBERMAN, E.A.

Elementary theory of semipermeable membranes, and the "phase"
theory of biopotentials. Analele biol 16 no.2:39-49 Mr-Apr
'62.

*

GLEBOV-KOTEL'NIKOV, Erik Anatol'yevich; LIBERMAN, Erik Anatol'yevich;
ZAV'YALOVA, A.N., red.; USHANOVA, S.N., ml. red.

[Mechanization of economic calculations in an enterprise]
Mekhanizatsiia ekonomicheskikh raschetov na predpriatii.
Moskva, Ekonomika, 1965. 150 p. (MIRA 18:12)

SOV/110-59-6-5/24

AUTHORS: Fridman, G.N., Engineer and Lieberman, E.L., Engineer

TITLE: The Advisability of Annealing Apparatus Core Stampings
(O tselesoobraznosti otzhiga vyrubok iz listovykh
elektrotekhnicheskikh staley prednaznachennykh dlya
magnitoprovodov apparatury)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 18-21 (USSR)

ABSTRACT: Annealing of stampings is a troublesome operation that does not give good results unless carefully carried out. Hence, it is of interest to consider how far the practice is really justified. Annealing affects mainly the power loss in the unsaturated part of the induction curve and has relatively little influence on the saturated part of the curve. Improvement in magnetic properties by annealing is more noticeable in narrow rings of thick steel, as will be seen from curves given in Fig 2. In assessing the need for annealing in any particular case it is necessary to consider both the configuration of the core and the influence of the annealing on the operating characteristics of the apparatus. It is convenient for this purpose to classify cores into the three main groups represented by the three rows of profiles in Fig 3. The first group

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The Advisability of Annealing Apparatus Core Stampings

consists of toroids made up of ring punchings or wound tapes. The second group consists of interleaved cores without air gaps; in this group the open three-limb core with a broad common yoke, as illustrated in sketch 6 of Fig 3, is becoming popular. The third group consists of cores with constant or variable air gap. The influence of annealing on the properties of typical cores was evaluated by comparing magnetising curves taken before and after annealing with d.c. and with a.c. at 50 c/s and 400 c/s. The steel was annealed by heating to a temperature of 820°C for three hours and cooling in the furnace to room temperature. Engineers M.F.Savel'yeva and N.A.Kasperskaya participated in the experimental work. It was found that the configuration governs the influence of annealing on the magnetic properties of the cores. The greater the proportion of diamagnetic sections in the magnetic circuit, and so the greater its reluctance, the less the influence of annealing. Magnetisation curves taken at 50 c/s are shown in Fig 4. It will be seen that the highest induction is obtained in

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the ring-type stampings and that these are the most sensitive to annealing. The influence of annealing is appreciably less in the open three-limb cores with one yoke and virtually absent in the core with air gap. The magnetisation curve of interleaved cores also depends on the quality of the surface, the thickness of the insulating layer between sheets and on the tightness with which the stampings are packed on assembly. The higher the a.c. frequency the less the influence of annealing on the magnetisation curves. Using circuits similar to those met in practice, the influence of annealing on apparatus characteristics was checked in the following four types of equipment. Firstly, power transformers were tested and the external characteristics were found to be independent of annealing. The main influence of annealing is on the no-load characteristics and, if the core width is less than 10 or 15 mm, annealing reduces the no-load current by approximately 40 or 50% as indicated by the curves in Fig 5. However, the full-load current of the transformer is hardly

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The Advisability of Annealing Apparatus Core Stampings

affected because the no-load current is such a small proportion of it. As small power transformers often run cool the use of unannealed steel for core widths less than 15 mm does not appreciably increase the operating temperature of the windings. However, annealing permits a reduction of up to 10% in the weight and size of small transformers with interleaved cores. Secondly, alternating-current starters were investigated and their properties were found to be independent of annealing because there is an air gap in the magnetic system during the entire process of operation. In systems without air gaps in the closed position and with core widths less than 10 or 15 mm, omission of annealing will increase copper and steel temperatures, much as in power transformers. Thirdly, the properties of chokes with constant air-gap were found to be independent of annealing. Finally, saturable chokes were investigated. Fig 6 gives comparative curves for combined magnetisation of saturable choke cores made of cold-rolled steel grade E-310, 0.35 mm thick

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The Advisability of Annealing Apparatus Core Stampings SOV/110-59-6-5/24

and of the configuration shown in Fig 3 sketch 6 (open three-limb core with a broad common yoke). The curves for annealed steel are much steeper. It was calculated that the amplification factor is increased by between 20 and 60% (depending on the circuit) when annealed steel is used. Annealing thus improves the main properties of low-power saturating chokes when the magnetic systems are made of stampings with limbs narrower than 15 to 20 mm. It is concluded that annealing is often unjustified, particularly in starters and chokes with air gaps, and that it is justified in small power transformers only when the temperature rise is high. Annealing is justified in cores with limbs less than 15 to 20 mm wide for saturable chokes, magnetic amplifiers and certain types of relay. There are 6 figures and 6 references, 5 of which are Soviet and 1 English.

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LIBERMAN, E. N.

"Effect of Residual Austenite upon the Properties of Tempered Steel." Min Higher Education USSR, Moscow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin, Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: M-955, 16 Feb 56

LIBERMAN, E.N.

Effect of structure on the wear resistance of low-alloy steel.
Metalloved. i term. obr. met. no.7:37-39 JI '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorskiy institut
derevoobdelochnogo mashinostroyeniya i Vsesoyuznyy nauchno-issledovatel'
skiy i proyektno-tekhnologicheskii institut ugol'nogo mashinostroyeniya.

LIBERMAN, F.

Strengthen payment discipline in delivery regulations. Den. i kred.
18 no.3:79-84 Mr '60. (MIRA 13:2)

1. Zamestitel' nachal'nika Otdela nadzora i instruktirovaniya Gos-
arbitrazha pri Sovete Ministrov SSSR.
(Payment) (Delivery of goods (Law))

LIBERMAN, F. Ya., inzh.

Investigating the static stability of electric lines of longitudinal complex power supply of electric railroads. Trudy DIIT no.29:96-105 '59. (MIRA 13:5)
(Electric railroads) (Electric power distribution)

LIBERMAN, F.Ya., inzh.

Problems of the capacity of the general electric power supply
lines along the track. Trudy MIIT no. 132:41-47 '60.

(MIRA 14:1)

(Electric railroads—Current supply)

LIBERMAN, F.Ya., inzh.

Studying the transient stability of the general electric power
supply lines along the track. Trudy MIIT no. 132:48-55 '60.

(Electric railroads—Current supply) (MIRA 14:1)

LIBERMAN, Fanya Yakovlevna; SHIROKOV, S.I., red.; SKOBELING, L.V., red. izd-
va; LAVRENOVA, N.B., tekhn. red.

[Features of a trip charter] Osobnosti reisovogo chartera. Moskva,
Izd-vo "Morskoi transport," 1961. 64 p. (MIRA 14:11)
(Contracts, Maritime)

LIBERMAN, F. Ya.

Cand Tech Sci - (diss) "Study of problems of the utilization of lines of lengthwise complex electrical power supply of electric railroads for communications between power systems." Leningrad, 1961. 17 pp; 2 pp of diagrams; (Ministry of Railways USSR, Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obrastsov); 150 copies; price not given; (KL, 7-61 sup, 240)

LIBERMAN, F.Ya.; VAL'KOVA, A.A.; DYLIS, K.Yu.; RYUMINA, L.A.; SOBOLEVA, G.I.;
TUPOVA, V.V.; KHABUR, B.P., otv.red.; GUREVICH, G.Ye., kand.tekhn.
nauk, nauchnyy red.; COROBETS, V.A., kand.voyen.-morskikh nauk, red.;
KOLODKIN, A.L., kand.yurid.nauk, red.

[Conditions for the commercial operation of the merchant marine during foreign sailing; rules, customs and practices in Japanese sea ports.] Usloviia kommercheskoi ekspluatatsii morskogo flota v zagranichnom plavanii; pravila, obychai i praktika morskikh portov Iaponii. Leningrad, Izd-vo "Morskoi transport." No.10, pt.1. 1963. 90 p. (Leningrad. Tsentral'nyi nauchno-issledovatel'skii institut morskogo flota, Informatsionnyi sbornik, no.93). (MIRA 17:2)

1. Sotrudnik sektora ekspluatatsii flota Tsentral'noto nauchno-issledovatel'skogo instituta morskogo flota (for Liberman, Val'kova, Dylis, Ryumina, Soboleva, Tupova).

LIBERMAN, G.

Method of determining the cost of streetcar passenger transport.
Zhil.-kom.khoz. 5 no.8:8-10 '55. (MLRA 9:3)

1. Nachl'nik proizvodstvenno-tekhnicheskogo otdela Glavnogo
upravleniya tramvayev i trolleybusov Ministerstva kommunal'nogo
khozyaystva RSFSR.

(Streetcars)

LIBERMAN, G.

Street railways and trolley buses for transporting freight.

Zhil.-kom.khoz. 7 no.4:23-25 '57.

(MLRA 10:7)

(Electric railroads--Freight) (Trolley buses)

LI BERMAN, G.

Mechanizing lubrication of curved streetcar tracks. Zhil.-kom.khoz.
8 no.4:12-14 '58. (MIRA 11:5)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela Glavnogo uprav-
leniya tramvayev i trolleybusov Ministerstva kommunal'nogo khozyay-
stva RSFSR.

(Lubrication and lubricants)
(Street railways--Curves and turnouts)

TRIFONOV, V.; LIBERMAN, G.

Outstanding drivers share experience. Zhil.-kom. khoz. 13 no.1:18 '63.
(MIRA 16:3)

1. Rabotniki Upravleniya gorodskogo elektrotransporta Ministerstva
kommunal'nogo khozyaystva RSFSR.
(Rapid transit--Congresses)

ACC NR: AP6025390

SOURCE CODE: UR/0366/66/002/CJ7/1196/1199

AUTHOR: Volodkovich, S. D.; Liberman, G. I.; Mel'nikov, N. N.; Sokolova, Ye. M.

ORG: All-Union Scientific Research Institute of Chemicals for Plant Protection
(Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchit rasteniy)

TITLE: Organic insectofungicides. XCVIII. Synthesis of some trichloroalkyl- and dichloroalkenyldithiocarbamates

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 7, 1966, 1196-1199

TOPIC TAGS: insectofungicide, dithiocarbamate ester, chloroderivate, *INSECTICIDE,*
PESTICIDE

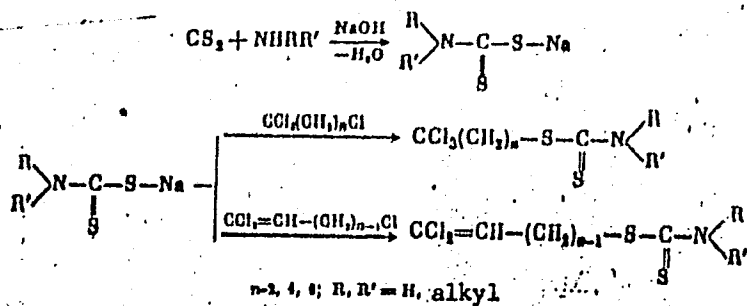
ABSTRACT:

In a search for new pesticides, the following previously unreported trichloroalkyl and dichloroalkenyl thiocarbamates (shown in the table) were obtained according to the two-stage reaction:

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UDC: 542.955.2 : 547.5

ACC NR: AP6025390



These new compounds showed low pesticidal activity.

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ACC NR: AP6025390

Table. 1

No.	Compound	mp or bp (p in mm)	n _D ²⁰	d ₄ ²⁰	MP,		Yield (in %)	Found %		Formula	Calculated %	
					Found	Calculated		Cl	S		Cl	S
1	<chem>(CH3)3N-C-S-CH2(CH2)2CCl2</chem>	63-63.5°	—	—	—	—	66	26.43	21.56	C ₉ H ₁₁ Cl ₂ NS ₂	26.16	21.73
2	<chem>(CH3)3N-C-S-CH2(CH2)2CH=CCl2</chem>	180 (0.85)	1.5945	1.2803	66.37	66.70	62	27.82	24.24	C ₉ H ₁₀ Cl ₂ NS ₂	27.81	24.80
3	<chem>(C2H5)3N-C-S-CH2CH2CCl2</chem>	82-83	—	—	—	—	40	26.48	21.16	C ₉ H ₁₁ Cl ₂ NS ₂	26.12	21.75
4	<chem>(C2H5)3N-C-S-CH2-CH=CCl2</chem>	32-33	—	—	—	—	74	26.11	23.77	C ₉ H ₁₀ Cl ₂ NS ₂	27.51	24.80
5	<chem>(C2H5)3N-C-S-(CH2)2CCl2</chem>	42-44	—	—	—	—	53	32.24	20.17	C ₁₀ H ₁₂ Cl ₂ NS ₂	23.02	19.87
6	<chem>(C2H5)3N-C-S-(CH2)2CH=CCl2</chem>	148-150 (0.18)	1.5756	1.2088	78.17	78.02	40	24.47	22.43	C ₁₀ H ₁₁ Cl ₂ NS ₂	24.82	22.37
7	<chem>(iso-C2H5)3N-C-S-(CH2)2CCl2</chem>	192-195 (0.85)	1.5628	1.2182	93.22	92.81	29	29.70	19.24	C ₁₁ H ₁₅ Cl ₂ NS ₂	20.28	18.30
8	<chem>(iso-C2H5)3N-C-S-(CH2)2CH=CCl2</chem>	168-170 (0.15)	1.5654	1.1723	87.20	87.29	28	22.40	21.09	C ₁₁ H ₁₄ Cl ₂ NS ₂	22.81	20.40

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ACC NR: AP6025390

Table. 1 (cont.)

No.	Compound	mp or bp (p in mm)	n _D ²⁰	d ₄ ²⁰	NR ₂		Yield (in %)	Found %		Formula	Calculated %	
					Found	Color: Isted		C	S		C	S
9	<chem>(iso-C3H7)2N-C-S-(CH2)3CCl3</chem>	192-195 (0.55)	1.5465	1.1777	101.93	101.90	23	28.32	16.82	C ₁₁ H ₂₃ Cl ₃ NS ₂	28.17	16.93
10	<chem>(iso-C3H7)2N-C-S-(CH2)3CH-CCl3</chem>	178-180 (0.4)	1.5550	1.1429	96.05	96.58	45	20.82	16.47	C ₁₁ H ₂₃ Cl ₃ NS ₂	20.70	16.71
11	<chem>CH3NH-C-S-(CH2)3CCl3</chem>	58-62	—	—	—	—	15	28.50	22.45	C ₇ H ₁₃ Cl ₃ NS ₂	27.86	22.61
12	<chem>iso-C3H7NH-C-S-(CH2)3CCl3</chem>	70-71	—	—	—	—	22	—	20.19	C ₉ H ₁₉ Cl ₃ NS ₂	—	20.73
13	<chem>C6H5NH-C-S-(CH2)3CCl3</chem>	125-128 (10)	1.5215	1.1729	82.52	82.12	54	23.03	19.65	C ₁₀ H ₁₃ Cl ₃ NS ₂	23.02	19.83
14	<chem>C6H5NH-C-S-(CH2)3CH-CCl3</chem>	190 (0.65)	1.5260	1.1920	77.41	77.61	20	—	22.42	C ₁₀ H ₁₁ Cl ₃ NS ₂	—	22.97

Orig. art. has: 1 table and 1 formula.

[W.A. 50; CBE No. 10]

SUB CODE: 07/ SUBM DATE: 21Jul65/ ORIG REF: 003/ OTH REF: 011/

Card 4/4

LIBERMAN, German Abramovich; VAYNSHTEYN, Ye.S., red.; MATVEYEVA,
M.M., tekhn. red.

[Cancer of the eyelids, its diagnosis and treatment] Rak
vek, raspoznavanie i lechenie. Moskva, Medgiz, 1963. 210 p.
(MIRA 16:7)

(EYELIDS--CANCER)

LIBERMAN, Grigoriy Romanovich; GABRIYELEV, A.I., red.; TEL'NOV, N.V.,
red. izd-va; KHENOKH, F.M., tekhn. red.

[Prevention of the breakdown and malfunction of boiler equipment]
Preduprezhdenie avarii i nepoladok kotel'nogo oborudovaniia.
Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1962. 214 p.

(MIRA 15:9)

(Boilers--Maintenance and repair)

LIBERMAN, G.R.

Control of the corrosive action of feed water. Energetik 10
no.5:34-35 My '62. (MIRA 15:5)
(Feed-water purification)

SHOTT, Emmanuil Genrikhovich; LIBERMAN, G.R., inzhener; NOVOCHADOV, A.G.,
redaktor; KONYASHINA, A.D., tehnicheskiy redaktor.

[Work practice of the Kansk Central Electric Power Station] Opyt
raboty Kanskoi TsES. Moskva, Izd-vo Ministerstva kommunal'noye
khoziaistva RSFSR, 1955. 55 p. (MLRA 8:12)
(Kansk--Electric power plants)

L.H.R. M.A.N. G.R.

LIBERMAN, G.R.; inzh.

Improve the operation of boiler equipment. Bezop.truda v prom.
2 no.10:15-16 0 '58. (MIRA 11:11)
(Boilers--Safety measures)