

[The text in this section is extremely faint and illegible due to heavy noise and low contrast. It appears to be a multi-paragraph document.]

BALANDIN, A.A.

Multiplet theory of catalysis. Energy factors in catalysis.
Usp.khim. 33 no. 5:549-579 My '64. (MIRA 17:6)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN
SSSR i Moskovskiy gosudarstvennyy universitet imeni M.V.
Lomonosova.

TOLSTOPYATOVA, A.A.; BALANDIN, A.A.; YUY TSI-TSYUAN' [Yü Ch'i-ch'üan]

Kinetics of the dehydrogenation of isopropyl alcohol and of the dehydrogenation of tetralin on neodymium oxide. Izv. AN SSSR. Ser.khim. no.1:3-8 Ja '64. (MIRA 17:4)

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

ZUBAREVA, N.D.; OBEREMOK-YAKUBOVA, A.P.; PETROV, Yu.I.;
KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.

Determination of the heats of combustion of DL- and L-mandelic
acids. Izv. AN SSSR. Ser. khim. no.12:2207 D '63.

(MIRA 17:1)

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

OBEREMOK-YAKUBOVA, A.P.; BALANDIN, A.A.

Determination of the heat of combustion of xylitol. Izv.
AN SSSR. Ser. khim. no.12:2210-2211 D '63. (MIRA 17:1)

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

BALANDIN, A.A.; MATYUSHENKO, V.Kh.

Kinetic correlations in the dehydrogenation of compounds with six-membered rings. Part 2. Zhur.fis.khim. 37 no.1:115-124 Ja '63.

Kinetic correlations in the dehydrogenation of six-membered rings.
Part 1. 125-131 (MIRA 17:3)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

TOLSTOPYATOVA, A.A.; BALANDIN, A.A. YUY TSI-TSYUAN' (Yü Ch'i-ch'üan)

Catalytic properties of lanthanum oxide in the reactions of dehydrogenation and dehydration of alcohols and dehydrogenation of tetralin. Zhur. fiz. khim. 37 no.9:2034-2040 S '63.

(MIRA 16:12)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

TABER, A.M.; POLKOVNIKOV, B.D.; MAL'TSEVA, N.N.; MIKHEYEVA, V.I.;
BALANDIN, A.A., akademik

Study of catalysts produced by the reaction of sodium borohydride
with salts of heavy metals. Dokl. AN SSSR 152 no.1:119-121 S
'63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Catalysts) (Sodium borohydride) (Salts)

BALANDIN, A.A.

New data on the multiplet theory of catalysis. *Kin. i kat.*
4 no.6:801-810 N-D '63. (MIRA 17:1)

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

KONENKO, I.R.; TOLSTOPYATOVA, A.A.; BALANDIN, A.A.

Scandium oxide as a catalyst of dehydrogenation and dehydration.
Izv. AN SSSR. Ser. khim. no.11:1899-1905 N '63. (MIRA 17:1)

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

GONEYM, F.B.; BALANDIN, A.A.; SLOVOKHOTOVA, T.A.

Kinetics of ethane hydrogenolysis on a Ru-SiO₂ catalyst. Izv.
AN SSSR. Ser. khim. no.11:1905-1910 N '63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

BOGDANOVA, O.K.; BALANDIN, A.A.; BELOMESTNYKH, I.P.

Effect of the structure of alkyl aromatic hydrocarbons on the kinetics of their dehydrogenation, and the dehydrogenation of diethylbenzene. Izv. AN SSSR, Ser. khim. no.12:2100-2105 D '63. (MIRA 17:1)

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

ISAGULYANTS, G.V.; BALANDIN, A.A.; POPOV, Ye.I.; DERBENTSEV, Yu.I. (Moscow)

C^{14} tracer study of the dehydration mechanism of ethyl alcohol
on aluminum oxide. Zhur. fiz. khim. 38 no.1:20-27 Ja'64.
(MIRA 17:2)

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

ISAGULYANTS, G.V.; RYASHINTSEVA, M.A.; DERBENTSEV, Yu.I.; MINACHEV, Kh.M.;
BALANDIN, A.A.

Role of cyclohexene in the dehydrogenation and isomerization
of cyclohexane under conditions of reforming. Neftekhimiya 4
no.2:229-235 Mr-Apr'64 (MIRA 17:8)

1. Institut organicheskoy khimii AN SSSR imeni Zelinskogo.

BALANDIN, Aleksey Aleksandrovich, akademik; GERASIMOV, Yu.I.,
prof., retsenzent; PLATE, A.F., prof., retsenzent;
AGRONOMOV, A.Ye., dots., red.

[Multiplet theory of catalysis] Mul'tipletnaya teoriya
kataliza. Moskva, Izd-vo Mosk. univ. Pt.2. 1964. 242 p.
(MIRA 18:2)

1. Zaveduyushchiy kafedroy fizicheskoy khimii Moskovskogo
gosudarstvennogo universiteta chlan korrespondent AN SSSR
(for Gerasimov). 2. Zaveduyushchiy kafedroy khimii nefi
Moskovskogo gosudarstvennogo universiteta (for Plate).

KLABUNOVSKIY, Ye.I.; ANTIK, L.V.; BALANDIN, A.A.

Polarographic behavior of dihydrodioxobenzotripticene. Izv.
AN SSSR. Ser. khim. no.6:971-978 Je '64.

(MIRA 17:11)

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

ISAGULYANTS, G.V.; DERBENTSEV, Yu.I.; KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.

Mechanism underlying the catalytic dehydration of 2-butanol
on the surface of aluminum oxide. Izv. AN SSSR. Ser. khim.
no.6:985-990 Je '64. (MIRA 17:11)

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

KLABUNOVSKIY, Ye.I.; ANTIK, L.V.; BALANDIN, A.A.

Polarographic reduction of dihydrodioxotribenzotrypticene
in dimethylformamide. Izv. AN SSSR. Ser. khim. no.8:1412-
1416 Ag '64. (MIRA 17:9)

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

ANTIK, L.V.; KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; KARELE, B.Ya.

Synthesis and transformations of dihydrodioxodibenzotriptycene.
Izv. AN SSSR. Ser. khim. no.8:1470-1475 Ag '64. (MIRA 17:9)

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

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; MAMEDZADE, R.Yu.; ANTIK, L.V.;
GORSKAYA, L.A.

Dependence of polarographic characteristics on the structure
of quinones of the triptycene series. Izv. AN SSSR. Ser. khim.
no.8:1554 Ag '64. (MIRA 17:9)

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

ISAGULYANTS, G.V.; RYASHENTSEVA, M.A.; DERBENTSEV, Yu.I.; MINACHEV,
Kh.M.; BALANDIN, A.A.

Mechanism of cyclane isomerization on bifunctional catalysts.
Izv. AN SSSR. Ser. khim. no.8:1555-1556 Ag '64.

(MIRA 17:9)

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

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; ANTIK, L.V.

Hydrogenation of dihydroxobenzotriptycene. *zv. AN SSSR. Ser. khim.*
no.9:1610-1614 S '62. (MIRA 17:10)

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

TOISTOPYAILOVA, A.A.; BALANDIN, A.A.; YUY TSI-TSYUAN' [Yü CH'I-ch'üan]

Kinetic parameters for dehydrogenation and dehydration of ethyl, isopropyl alcohols and dehydrogenation of tetralin on erbium oxide. Kin. i kat. 6 no.1:108-114 Ja-F '65.

(MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

BALANDIN, A.A.; SLOVOKHOTOVA, T.A.; SHOLIN, A.F.; UGOL'TSEVA, L.A.

Hydrogenolysis of ethane in a flow system on nickel catalysts.
Kin. i kat. 6 no.1:115-120 Ja-F '65. (MIRA 18:6)

1. Moskovskiy gosudarstvennyy universitet.

BALASHOVA, S.A.; SLOVOKHOTOVA, T.A.; BALANDIN, A.A.

Effect of the structure of saturated hydrocarbons on their activity in the reaction with water vapor on Ni-Cr₂O₃ catalyst. Izv. AN SSSR Ser. khim. no.2:275-281 '65.

(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet.

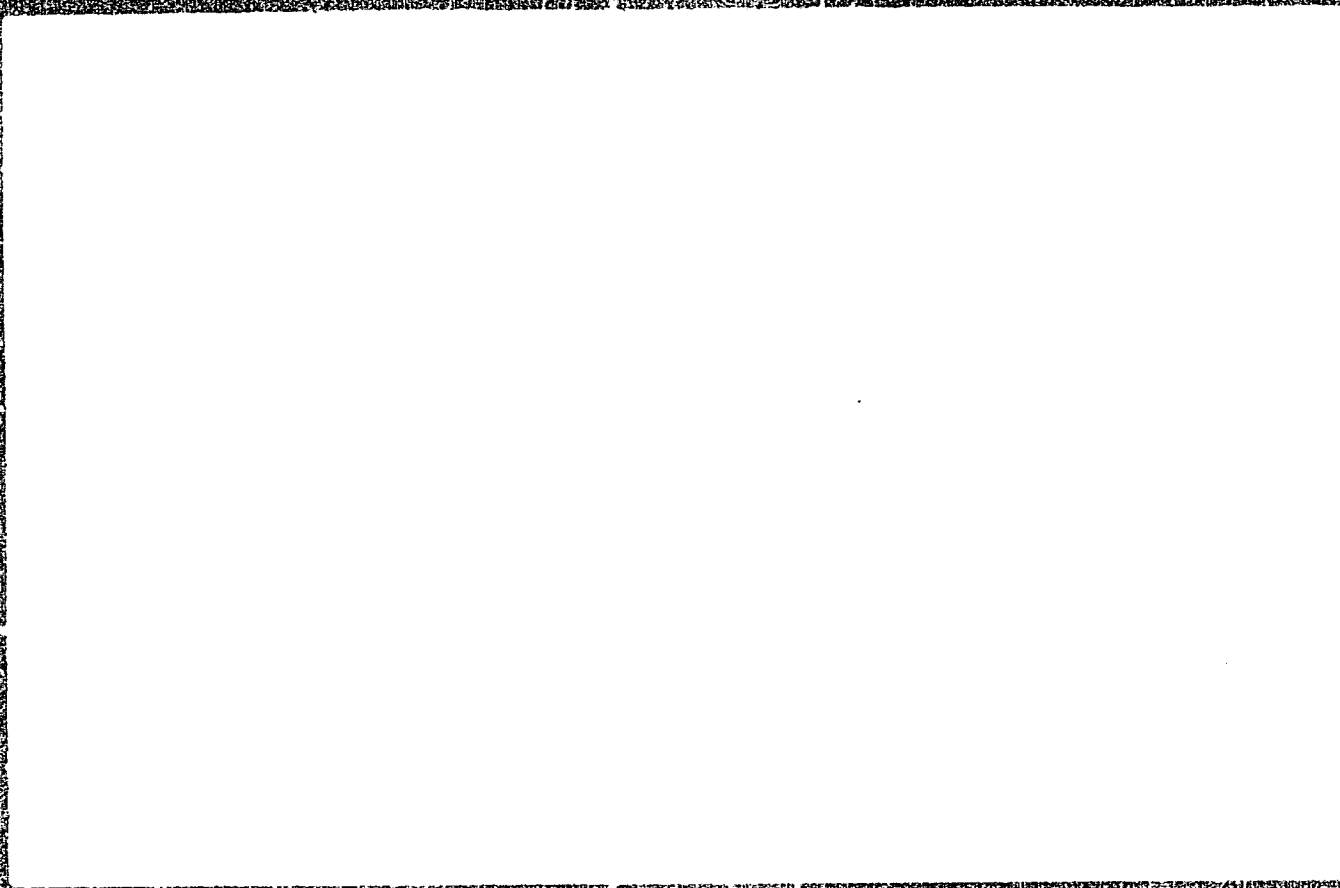
ZAMYSHLYAYEVA, L.I.; BALANDIN, A.A.; SIOVOKHOTOVA, T.A.

Conversion of methylated pyridines in the presence of water vapors on a nickel-alumina catalyst. Izv. AN SSSR Ser. khim. no.2:330-336 '65. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet.

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BALANDIN, A. A., akademik, KUKINA, A. I., MALINOVSKIY, N. Ye.; YERMILOVA,
M. M.

Catalytic properties of zirconium phosphate. Dokl. AN SSSR 161
no.4:851-852 Ap '55. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

GURKOV, R.S.; BALANDIN, A.A., akademik; SAVIN, Ye.P.

Isotope exchange of cyclobutane with deuterium on vaporized-metal coatings. Dokl. AN SSSR 162 no.4:843-846 Ja '65. (MIRA 18:5)

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

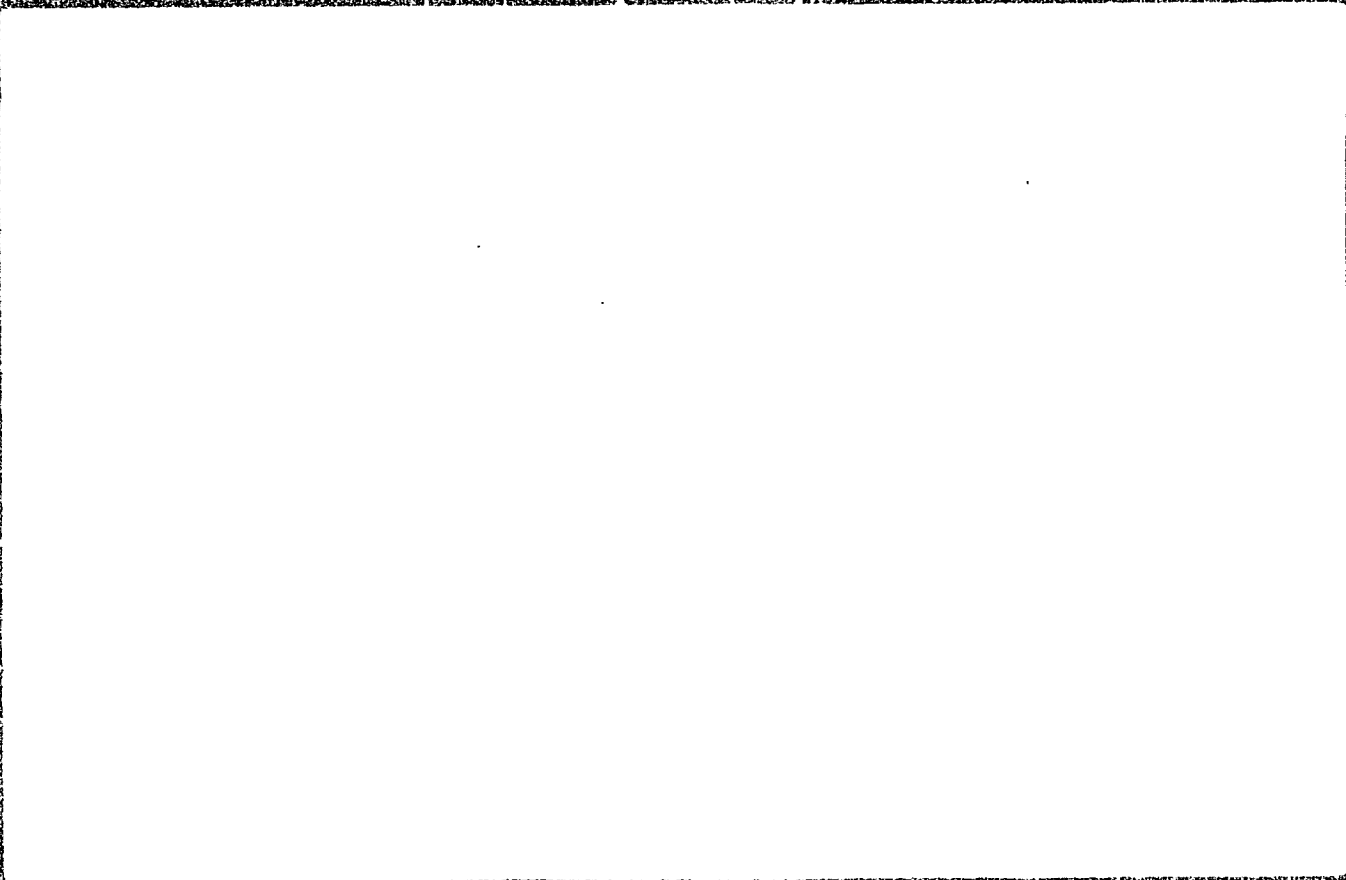
KLIMOV, Ye.I.; FLENTIKH, A.S., OKOLOV, M.M., et al.

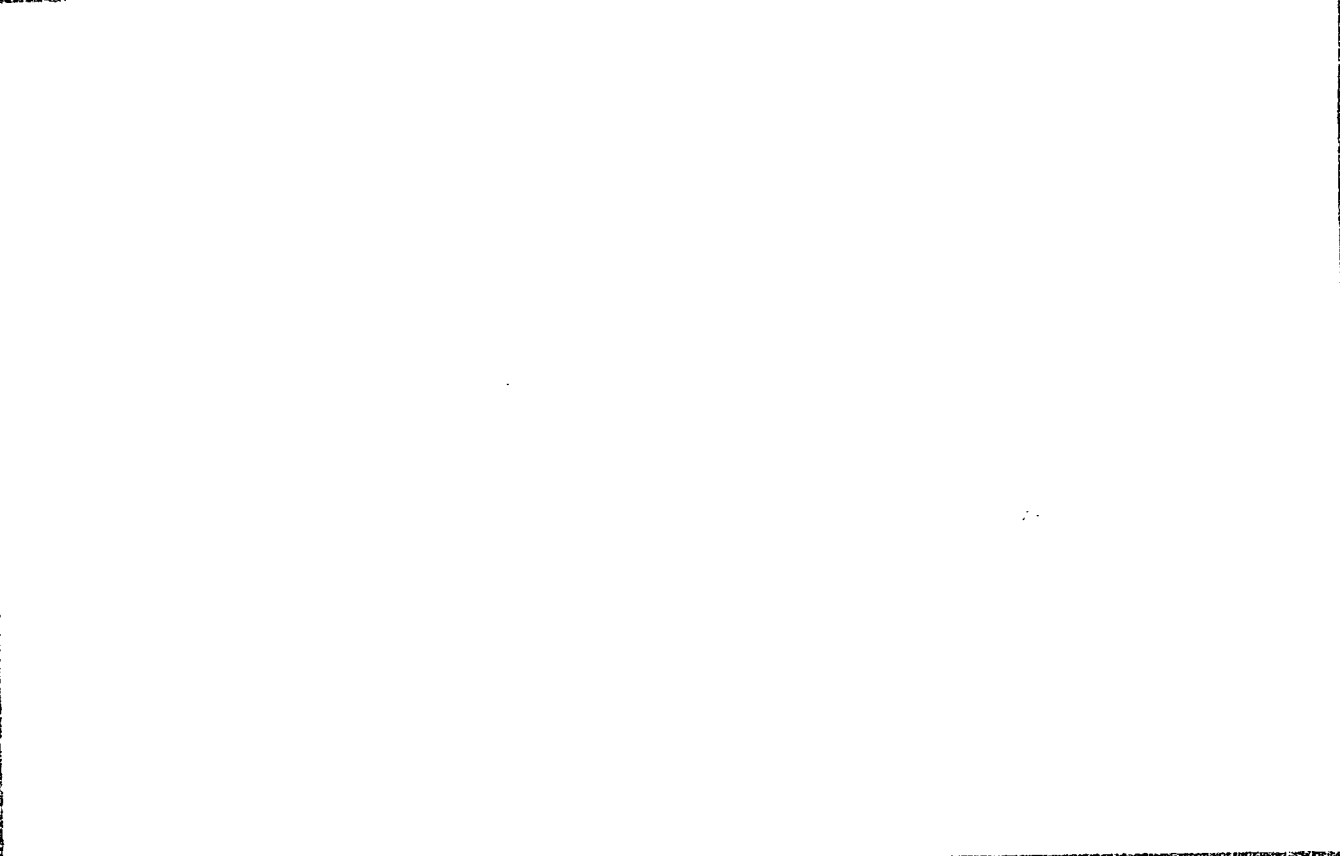
Stereotomical approach to the study of the geometry of the active surface of catalysts. Dokl. AN SSSR 162 no.4:853-856
Ja '65. (MIHA 18:5)

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

BALANDIN, Andrey Andreyevich; SMIRNOV, N.A., prof., red.;
PANIVAN, P.S., red. izd-va; BELOGUROVA, I.A., tekhn.
red.

[Fundamentals of fire safety at a construction site] Osnovy pozharnoi bezopasnosti na stroitel'no-montazhnoi ploschadke. Leningrad, 1962. 28 p. (Leningrad. dom nauchno-tekhn. propagandy. Bibliotekha stroitelia po tekhnike bezopasnosti, no.15) (MIRA 16:12)
(Construction industry--Fires and fire prevention)





ARTAMONOV, A.A.; BALANDIN, A.A., akademik; MARUKYAN, G.M.; KOTLENETS, M.I.

Isolation of 4-vinylpyridine from a mixture of pyridine bases.

Dokl. AN SSSR 163 no.2:359-361 J1 '65.

(MIRA 18:7)

1. Donetskii filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv i Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

KHIDEKEL', M.L.; POLKOVNIKOV, B.D.; TABER, A.M.; BALANDIN, A.A.

Catalytic hydrogenation of quinones in the presence of Pt, Pd, and Rh catalysts. Izv. AN SSSR. Ser. khim. no.3:542-543 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i Institut khimicheskoy fiziki AN SSSR.

BALANDIN, A.A., akademik; PRAD, N.; SLOVCKHOTOVA, T.A.

Comparative study of the transformation kinetics of benzene and its
C₇ - C₈ homologs under the effect of steam over a nickel-chromium
catalyst. Dokl. AN SSSR 163 no.3:638-641 J1 '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet.

SLOVOKHOTOVA, T.A.; BALANDIN, A.A.; PETROV, E.S.; SHOLIN, A.F.

Catalytic hydrogenolysis of ethane and cyclohexane on Ni-Kieselguhr catalysts. Izv. AN SSSR, Ser. khim. no.5:785-792 '65. (MIRA 18:5)

1. Moskvoskiy gosudarstvennyy universitet im. Lomonosova.

RUBENKO, A.P.; KULAKOVA, T.T.; BAZANDIN, A.A., akademik

Role of alkali metal hydroxides and carbonates in the oxidizing
dissolution of diamond. Dokl. AN SSSR 163 no.5:1169-1172 Ag '65.
(MIRA 18:8)

1. Moskovskiy gosudarstvennyy universitet.

GURKOV, N.S.; ISLAMB, A.A.; SAVIN, V.V.

Isotopic exchange between cyclohexane and deuterium over vaporized coatings of germanium and silicon. Izv. AN SSSR. Ser. Khim. no.6:1129 '65. (MIRA 18:6)

1. Institut organicheskoy khimii i ned Zolotareva AN SSSR.

GIL'NI-KASYANOV, V.S.; GUREOV, E.S.; ISAGULYANTS, G.V.; BILIZOV, A.A.

Manifestation of a bifunctional character of $\gamma = \text{Cr}_2\text{O}_3$ surface in catalytic conversions of cyclohexane. 1977. ISSN. Ser. Khim. no. 1121-1126. (MIRA 18:6)

1. Institut khimicheskoy fiziki, Serpukhovskiy raion, Moskva, S.S.S.R.

BALANDIN, A.A.; POLKOVNICOV, B.F.; TAREK, A.M.; TARSHIS, I.G.

Effect of amines on the activity and selectivity of a skeletal nickel catalyst. Izv. AN SSSR, Ser. khim. no.7:1151-1160 '65. (MIRA 18:7)

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

KLABUNOVSKIY, Ye.I.; BALANDIN, A.A.; ANTIK, L.V.

Comparative hydrogenation of quinones of complex spacial structure.
Izv. AN SSSR. Ser. khim. no.10:1785-1792 O '64. (MIRA 17:12)

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

BALANDIN, A.A., akademik; KARPEYSKAYA, Ye.I.; FERAFONTOV, V.A.; TOLSTOPYATOVA,
I.A.

Catalytic synthesis of piperazine. Dokl. AN SSSR 165 no.1:99-102
N 165.

(MIRA 18:10)

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

ARTAMONOV, A.A.; BALANDIN, A.A., akademik; BODNARCHUK, R.D.

Catalytic synthesis of p-aminostyrene. Dokl. AN SSSR 164
no.2:327-330 S '65. (MIRA 18:9)

1. Donetskij filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta khimicheskikh reaktivov i osobo chistykh
khimicheskikh veshchestv i Institut organicheskoy khimii im.
N.D. Zelinskogo AN SSSR.

TOLSTOPYATOVA, A.A.; BALANDIN, A.A.; YUY TSI-TSYUAN' [Yü Ch'i-ch'üan]

Catalytic properties of erbium oxide with respect to the reaction of dehydrogenation and dehydration of alcohols and dehydrogenation of tetralin. Kin. i kat. 5 no.5:877-880 S-O '64.

(MIRA 17:12)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

BALASHOVA, S.A.; PATRIKEYEV, V.V.; BALANDIN, A.A.

~~Attempt~~ to prepare a chemical model of the action of alcohol dehydrogenase. Izv. AN SSSR. Ser. khim. no.7:1273-1274 '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomcnosova.

ISAGULYANTS, G.V.; KOMAROVA, Ye.N.; BALANDIN, A.A., akademik

Dehydrogenation mechanism of six-membered cyclanes. Dehydrogenation
of methylcyclohexane on an aluminum-chromium catalyst. Dokl. AN SSSR
164 no.6:1307-1310 © 1965. (MIRA 18:10)

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

L 5063-66 EWT(m)/EPF(c)/EWP(j) RM
ACCESSION NR: AP5025508

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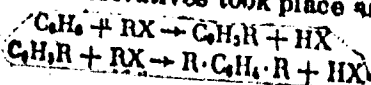
AUTHOR: Malenberg, N. Ye.; Balandin, A. A.; Kukina, A. I.

TITLE: Catalytic properties of iron orthophosphate. Report No. 2. Alkylation of benzene and its homologs and derivatives

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 0, 1965, 1565-1570

TOPIC TAGS: Iron compound, alkylation, alkyl benzene //

ABSTRACT: The catalytic properties of iron orthophosphate FePO₄ were studied in the alkylation of benzene and its homologs with haloalkyls of various structures. Benzene, toluene, ethylbenzene, cumene, chlorobenzene, and phenol were alkylated with *sec*-propyl chloride and bromide, and with *tert*-butyl chloride. The condensation of benzene and its derivatives with aliphatic monohalo derivatives took place as follows:



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ACCESSION NR: AP5026508

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FePO₄ was shown to be active and specific in the liquid-phase alkylation of benzene and its homologs. The amounts of monoalkylated products obtained, ranging from 38 to 73%, are comparable to the yields obtained in the presence of such widely employed catalysts as AlCl₃ and FeCl₃. In contrast to the latter, the formation of dialkyl derivatives and of considerable amounts of tars is not observed in the presence of FePO₄. However, reactions of acylation and of alkylation of benzene and its homologs by haloalkyls of normal structure were not detected. "The authors take this opportunity to thank Ye. N. Rossolovskiy and L. D. Ashkinadze for his comments and assistance." Orig. art. has: 2 tables. ^{44, 55}

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University) ^{44, 55}

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Card 2/2 ^{ind}

MAMED-ZADE, R.Yu.; KLADUNOVSKIY, Ye.I.; PALANDIN, A.A.

Catalytic hydrogenation of tetrahydrodioxo-(dihydroanthrylene)
tritycene. Izv. AN SSSR. Ser. khim. no.9:1570-1575 '65.

(MIRA 18:9)

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

SLOVOKHOTOVA, T.A.; BALANDIN, A.A.; KIPLONG, I.

Rate of transformations of m-cresol under the effect of water vapor on nickel catalysts. Vest. Mosk. un. Ser. 2: Khim. 20 no.6:30-33 N-D '65. (MIRA 19:1)

1. Kafedra organicheskogo kataliza Moskovskogo universiteta. Submitted May 11, 1964.

BALANDIN, A.A.; SPITSYN, Vikt.I.; DOBROSEL'SKAYA, N.P.; MIKHAYLENKO, I. Ye.

Effect of the radiation of radioactive S^{35} on the catalytic
dehydration of cyclohexanol. Zhur. fis. khim. 39 no. 1:
258-261 Ja '65 (MIRA 19:1)

1. Institut fizicheskoy khimii AN SSSR i Moskovskiy gosudarst-
vennyy universitet imeni M.V. Lomonosova. Submitted April 11,
1964.

GUDKOV, B.S.; BALANDIN, A.A., akademik

Deuterium exchange of cyclopentane over sprayed metal catalysts.
Dokl. AN SSSR 165 no.5:1105-1107 D '65.

(MIRA 19:1)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
Submitted July 3, 1965.

TOLSTOPYATOVA, A.A.; BALANDIN, A.A.; PYN BI-SYAN [P'eng Pi-haiang]

Catalytic properties of thulium oxide in the reactions of
dehydrogenation and dehydration of alcohols and dehydro-
genation of tetralin. Izv. AN SSSR. Ser. khim. no.11:1953-
1960 '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet.

BALANDIN, A.A., inzh.; SHIRKEVICH, N.S.

Proposals of the efficiency promoters of the "Vasilevich II"
enterprise of the Economic Council of White Russia. Torf.prom.
39 no.3:28-30 '62. (MIRA 15:4)

1. Torfopredpriyatiye "Vasilevichi II".
(White Russia--Peat machinery)

BALANDIN, A.A., inzh.

Provide quality lubricants for the engines. Torf.prom.
39 no.4:34-35 '62. (MIRA 15:7)

1. Torfopredpriyatiye Vasilevichi II Belorusskogo soveta
narodnogo khozyaystva.
(Diesel engines--Lubrication)
(Peat machinery)

- BONDIN, M.A.; SINIAKOV, O.G., inzh.; SHIRKEVICH, N.S., inzh.; POPOVICH, M.V.;
TATARNIKOV, M.N.; BALANDIN, A.A., inzh.; KHOLODKOV, N.Ye.;
KOLEVATYKH, S.F., inzh.

Exchange of practices by the enterprises of economic councils.
Torf. prom. 39 no.6:28-35 '62. (MIRA 16:7)

1. Kalininskiy soviet narodnogo khozyaystva (for Bondin).
2. Torfopredpriyatiye Vasilevichi II (for Sinyakov, Shirkevich, Balandin, Kholodkov).
3. Nauchal'nik konstruktorskogo byuro Tesovskogo transportnogo upravleniya (for Popovich).
4. Starshiy inzh. konstruktorskogo byuro Tesovskogo transportnogo upravleniya (for Tatarnikov).
5. Yaroslavskoye torfopredpriyatiye Yaroslavskogo narodnogo khozyaystva (for Kolevatykh).

(Feat machinery—Technological innovations)

BALANDIN, A.A., inzh.; RYSIN, V.I., inzh.; BUKSHTYNOV, P.I., inzh.

Exchange of practices by the enterprises of economic councils.
Torf. prom. 39 no.7:35-36 '62. (MIRA 16:8)

1. Torfopredpriyatiye Vasilevichi II Belorusskogo soveta
narodnogo khozyaystva (for Balandin). 2. Torfopredpriyatiye
Radovitskiy Mokh (for Rysin). 3. Upravleniye energotoplivnoy
promyshlennosti Yaroslavskogo soveta narodnogo khozyaystva
(for Bukshtynov).

(Peat industry)

VASYUNINA, N.A.; BALANIN, A.A.; BARYSHEVA, G.S.; CHEBICO, E.Y.; PIVOVAR, Ye.I.

Hydrolytic hydrogenation of cotton cellulose. Zhur. prikl. khim.
37 no.12:2725-2729 D '64. (MIRA 18:3)

ТОЛСТОПЯТОВА, А.А.; НАУМОВ, В.В.; КОЗЛОВ, А.А.

Regularities in the change of bond energies and activation energy on oxide catalysts. Zhur. fiz. khim. 38 no.6:1622-1627 Je '64. (MIRA 18:3)

1. Institut organicheskoy khimii AN SSSR.

BALANDIN, A.A., akademik; GUDKOV, B.S.; FEDOROVICH, R.M.

Mechanism underlying the interaction of cyclohexane with the surface of a metallic catalyst. Dokl. AN SSSR 155 no. 3:626-628 Mr '64. (MIRA 17:5)

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

BALANDIN, A.A.; TOLSTOPYATOVA, A.A.; YUY TSI-TSYUAN' [Yü Ch'i-ch'üan]

Kinetics of dehydrogenation and dehydration of isopropyl alcohol
and of dehydrogenation of tetralin on samarium oxide. Izv. AN SSSR,
Ser. khim. no. 2: 262-267 F '64. (MIRA 17:3)

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

DERBENTSEV, Yu.I.; MARKOV, M.A.; ISAGULYANTS, G.V.; MINACHEV, Kh.M.;
BALANDIN, A.A., akademik; Prinsipala uchastiya SHCHUKINA, O.K.

Mechanism of cyclohexane dehydrogenation over holmium oxide studied
with the use of radiocarbon C^{14} . Dokl. AN SSSR 155 no.1:128-131
Mr '64. (MIRA 17:4)

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

BALANDIN, A.A.; SPITSYN, Vikt.I.; DOBROSEL'SKAYA, N.P.; MIKHAYLENKO, I.Ye.

Determination of the specific surface of radioactive catalysts.
Izv.AN SSSR.Ser.khim. no.2:379-382 F '64. (MIRA 17:3)

1. Institut fizicheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonoseva.

ТАКЕДИНАВИЧ, Г.Г.; КОСОВИЧ, С.С.; КОСОВИЧ, С.С.

Effect of the thermal treatment of a nickel-nickel catalyst on the character of its activity in the catalytic transformation of α -picoline in the atmosphere of water vapor. Vest. Kosh. un. Ser. 2: Khim. 20 no.1:33-41 Ja-F 1965.

(MIRA 18:3)

1. Kafedra organičeskoy khimii Kosovskogo universiteta.

ИЗВЕЩАНИЕ, В.В.; БАЛАШОВ, А.А.; НИКОЛАЕВ, С.С.; СЕРГЕЕВ, В.В.

(Pre-contact gasification process. Chem. zhurn. 32 no.1:
148-153 Ja '65. (YDS 18:5)

TOLSTOFYATOVA, A.A.; BALANDIN, A.A.; YU TSI-TSYUAN' [Yu CH'I-CH'UAN]

Kinetic parameters of dehydrogenation and dehydration of isopropyl alcohol and dehydrogenation of tetralin on praseodymium oxide.
Kin. i kat. 6 no.4:682-687 J1-Ag '65. (MIRA 18:9)

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

ZAMYSHLYAYEVA, I.I.; SLOVOKHOTOVA, T.A.; BALANDIN, A.A.

Activity of isomeric picolines, cresols, and xylenes in
catalytic conversions with steam. Vest. Mosk. un. Ser. 2:Khim. 20
no.4:39-41 JI-Ag '65. (MIRA 18:10)

1. Kafedra khimicheskoy kintiki Moskovskogo gosudarstvennogo
universiteta.

TOLSTOPYATOVA, A.A.; PYN BI-SYAN (P'ang Pi-hsiang); BALANDIN, A.A.

Catalytic activity of ytterbium oxide with respect to the reactions of dehydrogenation and dehydration of alcohols and dehydrogenation of tetralin. *Izv. AN SSSR. Ser. khim.* no. 12:2100-2106 '65. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.
Submitted July 17, 1963.

DERBENTSEV, Yu.I.; ISAGULYANTS, G.V.; BALANDIN, A.A.

Study of the mechanism of alcohol and ether dehydration over an
aluminopotassium sulfate catalyst using radiocarbon C-14. Zhur.
fiz.khim. 39 no.10:2611-2614 0 1964

(MIRA 18:12)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.
Submitted August 27, 1964.

BAIANDIN, A.A.; SPITSYN, VIKT.I.; LOBROSEL'SKAYA, N.P.

Cracking of cumene over a tricalcium phosphate catalyst.
Izv.AN SSSR.Ser.khim. no.12:2095-2100 '65.

(MIRA 18:12)

1. Institut fizicheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy universitet im Lomonosova.

RUDENKO, A.P.; BOBRINA, D.E.; BALANDIN, A.A., akademik; MELITCHEVA, M.F.

Oxylation of benzene by a coaly substance obtained from
propylene on silica gel. Dokl. AN SSSR 165 no.4:87, 87
D '65. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

BALANDIN, A.A.; GINDIN, L.G.

Kinetics of antibacterial reactions. Report No.1. Effect of
some organotin compounds on pathogenic bacteria. Biofizika 10
no.6:986-992 1965. (MIRA 19:1)

1. Vsesoyuznyy zaochnyy politekhnicheskii institut, Moskva.
Submitted March 23, 1965.

ACC NR: AP6032860

AUTHOR: Balandin, A. A. (Academician); Gorshkova, L. S.

SOURCE CODE: UR/0020/66/170/003/0589/0592

ORG: Institute of Organic Chemistry im. N. D. Zolinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR)

TITLE: Some characteristics of the identification and analysis of highly polar nitrogen- and oxygen-containing substances by gas-liquid chromatography

SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 589-592

TOPIC TAGS: chromatography, gas chromatography, amine

ABSTRACT: Continuing their study of the identification of certain strongly polar nitrogen- and oxygen-containing compounds in mixtures, the authors focused their attention on the reaction of catalytic synthesis of piperazine from monoethanolamine, in the course of which over 20 highly polar compounds having very different boiling points and reactivities are formed. A study of various liquid phases and solid carriers (60 columns) showed that these compounds are best separated on polyethylene glycol (PEG-2600 or 2000) deposited (in amounts of 1-0.5%) on NaCl treated with KOH (0.5%). A complete analysis of the mixture on a column with 1% PEG-2600 and 0.5% KOH requires a separation at three temperatures, 63, 102 and 173°C. The effect of the amount of KOH and PEG on the separation was determined. The size and shape of NaCl

Card 1/2

CODE

SUB CODE:

UDC: 543.5.43

JALANDIN, A.A.; KUKINA, A.I.; CHZHAN KHOU-SHEN [Chang Hou-shêng];
KOSINSKAYA, I.Ya.

Contact conversion of cyclohexene and 1,2-cyclohexadiene in the
presence of ∞ -iron. Zhur. fiz. khim. 37 no.11:2504-2512 N°63.
(MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

BAJANDIN, A.D.; YUDAYEV, K.V.; MUBATOVA, G.; YAGAFAROV, L.M.

Cytology of vaginal smears during pregnancy, labor, and puerperium,
Akush. gin. no. 1:42-44 Jan-Feb 1953. (OIML 24:2)

1. Students. 2. Of the Department of Obstetrics and Gynecology
(Head -- Prof. B. Ya. Stavskaya), Stavropol' Medical Institute.

BALANDIN, A.D.; NESMEYANOVA, N.P.

Compound microscopical examination of vaginal smears. Akush. i
gin. m.4:77-76 J1-Ag '55. (MLRA 8:11)

1. Is 2-y gorodskoy bol'nitsey g. Kemerovo.
(VAGINAL SMEARS
exam. diag. value in gyn. dis.)
(GYNECOLOGICAL DISEASES, diag.
vaginal smears, method of exam.)

BALANDIN, A.D.; PROKOPENKO, I.G.

Simple device for projecting microscopic specimens on a screen.
Lab.delo 3 no.6:43-44 N-D '57. (MIRA 11:2)

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent K.I.Savvina)
Stavropol'skogo meditsinskogo instituta.
(PROJECTORS)

BALANDIN, A.D. (Stavropol')

Sevage disinfection apparatus for the hospital department of pathology.
Arkhn.pat. 21 no.4:79-80 '59. (MIRA 12:12)

1. Iz kafedry patologicheskoy anatomii (rav. - dots. K.I. Savvina)
Stavropol'skogo meditsinskogo instituta.

(ANTISEPSIS AND ASEPSIS,

sewage disinfect. in hosp. pathol. department (Rus))

(HOSPITALS,

same)

(SEWAGE,

disinfect. in hosp. pathol. department (Rus))

BAJANDIN, A.D. (Stavropol')

Natural yellow-green fluorescence of liver sections as an index
of the vitamin A content of the human body. Arkh.pat. 22 no.7:
70-94 '60. (MIRA 14:1)

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent K.I.Savvina)
Stavropol'skogo meditsinskogo instituta (direktor - prof. V.G.Budylin).
(LIVER) (VITAMINS--A)

BALANDIN, A.D.

Characteristics of spontaneous (primary) fluorescence of the liver in people who have died of cancer and some other diseases. Uch. zap. Stavr. gos. med. inst. 12:278-279 '63.
(MIRA 17:9)

1. Kafedra patologicheskoy anatomii (zav. doktor med. nauk Ye.P. Yevsev'yev) Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

BALANDIN, A.D.; STEPANOVA, V.K.; SHVARTSMAN, S.G.

Three cases of nodular periarteritis. Uch. zap. Stavr.
gos. med. inst. 12:402-403 '63. (MIRA 17:9)

1. Kafedra patologicheskoy anatomii (zav. kafedroy dotsent
K.I. Savvina) i kafedra detskikh bolezney (zav. kafedroy
dotsent B.G. Apostolov) Stavropol'skogo gosudarstvennogo
meditsinskogo instituta.

BALANDIN, A.D., (Stavropol')

Fluorescence-microscopic examination of the liver in cancer and some other diseases. Arkh. pat. 25 no.11:67-71 '63.

(MIRA 17:12)

1. Iz kafedry patologicheskoy anatomii (zav. - dotsent K.I.Savvina) Stavropol'skogo meditsinskogo instituta.

ACC NR: AP7006681

(A)

SOURCE CODE: UR/0145/66/000/010/0142/0146

AUTHOR: Balandin, A. D. (Instructor)

ORG: None

TITLE: Investigation of the optimum geometry and stability relationships of hard-alloy milling cutters made from plasticized blanks in machining EI654 steel

SOURCE: IVUZ. Mashinostroyeniye, no. 10, 1966, 142-146

TOPIC TAGS: cutting tool, metal machining, durability, wear resistance, high temperature steel, *REFRACTORY METAL*

ABSTRACT: The author determines the optimum rake and relief for three-sided disc mills in machining EI654 refractory steel. The cutters were made from VK6M and VK10M hard alloys produced in the Profiled Components Laboratory of the All-Union Scientific Research Institute of Hard Alloys. These milling cutters were 45 mm in diameter, 10 mm wide and had 12 teeth. Machining was done without cooling on a 9.2 kw horizontal mill with spindle speeds from 19 to 950 rpm at $\phi=1.26$. Cutter wear was measured at speeds of 8.6-52 m/min and feeds of 0.01-0.07 mm for various cutting depths. It was found that wear takes place chiefly on the clearance surface of the cutting teeth. The results show that the optimum relief for cutters of this type in machining EI654 steel is 12° , the optimum rake being 5° for VK6M cutters and 10° for VK10M cutters.

Cord 1/2

UDC: 621.914.2

ACC NR: AP7006681

Approximate formulas are given relating cutter stability to cutting speed. The article was presented for publication by Doctor of technical sciences G. I. Granovskiy, Professor at the Moscow Technical College in. N. E. Bauman. Orig. art. has: 3 figures, 7 formulas.

SUB CODE: 13/ SUBM DATE: 7Sep65/ ORIG REF: 002

Card 2/2

ARTAMONOV, A.Ya., kandidat tekhnicheskikh nauk; PANKIN, A.V., professor,
retsensent; BEISEL'MAN, R.D., inzhener, redaktor; ~~BALANDIN, A.F.,~~
inzhener, redaktor; UVAROVA, A.F., tekhnicheskii redaktor.

[Research on the workability of high-strength crude iron] Issle-
dovanie obrabatyvaemosti vysokoprochnogo chuguna. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1955. 133 p.
(Iron--Metallurgy) (MLRA 8:10)
(Metal cutting)

LAPIN, N.A., KATSEHEL'SON, V.Yu.; BALANDIN, A.F., inzhener, redaktor;
UVAROVA, A.F., tekhnicheskij redaktor

[Curling of shavings according to the innovator A.I.Merkulov's
method] Struzhkosavivanie po metodu novatora A.I.Merkulova. Mo-
skva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1955.
28 p. (MIRA 8:7)

(Metal cutting)

GRANOVSKIY, G.I., professor, doktor tekhnicheskikh nauk, redaktor; BRODSKIY, M.G., insbener, redaktor; BALANDIN, A.F., insbener, redaktor isdatel'stva; SHMEL'KINA, S.I., tekhnicheskiy redaktor

[Design of cutting tools] Konstruirovaniye reshushchego instrumenta. Pod red. G.I.Granovskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 141 p. (MLRA 9:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut.

(Cutting tools)

MALCHAN, Ashot Gedsonovich; PEDOTRNOK, A.A., kandidat tekhnicheskikh nauk, retsentsent; YERSHOV, A.I., inzhener, retsentsent; OLIZAROV, P.V., inzhener, redaktor; BALANDIN, A.F., inzhener, redaktor izdatel'stva; MODNL', B.O., tekhnicheskii redaktor; TIKHONOV, A.Ya., tekhnicheskii redaktor

[Machine tools] Metalloreshushchie stanki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 664 p. (MLRA 9:11)
(Machine tools)

1511-111-1-11-11

MASLOV, Ye.N., professor, doktor tekhnicheskikh nauk; redaktor; BALANDIN, A.F. inzhener, redaktor izdatel'stva; UVAROVA, A.F., tekhnicheskii redaktor.

[Recent studies in metal cutting] Novye issledovaniia v oblasti obrabotki metallov rezaniem. Pod red. E.N. Maslova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 77 p.

(MLRA 10:6)

1. Moscow. Moskovskiy inzhenerno-fizicheskii institut.
(Metal cutting)

KAPLUNOV, Rafail Samylovich, kandidat tekhnicheskikh nauk, dotsent;
NIEBERG, N.Ya., kandidat tekhnicheskikh nauk, dotsent, redakter;
~~BALANDIN, A.F.~~ redakter izdatel'stva; KORSAKOV, V.S., dektek
tekhnicheskikh nauk, retsenzent; UVAROVA, A.F., tekhnicheskii
redakter.

[Accuracy of controlling equipment] 'tochnost' kontrol'nykh prispe-
sebleni. Moskva, Gos.nauchno-tekhn.isd-vo mashinestroit.lit-ry,
1957. 207 p. (MLRA 10:6)

(Measuring instruments)

ZUBAROV, Vladimir Fedorovich, doktor tekhnicheskikh nauk, professor;
LANDA, A.F., doktor tekhnicheskikh nauk professor, retsenzent;
KUNYAVSKIY, M.N., kandidat tekhnicheskikh nauk, redaktor
[deceased]; BALANDIN, A.F., redaktor izdatel'stva; TIKHANOV,
A.Ya., tekhnicheskij redaktor

[Theoretical principles of the graphitization of white iron
and steel] Teoreticheskie osnovy grafitizatsii belogo chuguna
i stali. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1957. 222 p. (MLRA 10:6)
(Iron--Metallurgy) (Steel--Metallurgy)

LIKHT, L.O.; KUDIEV, V.A.; LAPIDUS, A.S.; AZAREVICH, G.M.; SKIDAL'SKIY, M.M.;
VINDERNIKOV, A.I.; PROKOPOVICH, A.Ye., redaktor; ~~BALANDIN, A.F.~~
redaktor izdatel'stva; EL'KIM, V.D., tekhnicheskiy redaktor

[Modernization of automatic turret lathes; directions] Modernizatsia
tokarno-revol'vernykh stankov; rukovodiashchie materialy. Pod red.
A.E.Prokopovicha. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1957. 170 p. (MLRA 10:9)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut
metalloreshushchikh stankov.
(Lathes)

BALANDIN, A.N.; DOBROTIN, S.S.

Extended hypothermia in treating hypoxic states. Uch. trudy GMI
no.19:305-309 '65. (MIRA 19:8)

1. Iz kliniki gosital'noy khirurgii Gor'kovskogo gosudarstvennogo
meditsinskogo instituta imeni S.M.Kirova.

BALANDIN, A. N.

"Cultivation of the Bessonovka Onion Under Field Conditions," Sad i Og., No.5,
1952

CHERNOV, Tikhon Petrovich, prof.; SELIVERSTOV, Anatoliy
Nikolayevich, inzh.; SELIVERSTOVA, Inna Mikhaylovna,
inzh.; BALANDIN, A.N., spets. red.

[Present-day structures and methods for laying pile founda-
tions for buildings] Sovremennye konstruksii i metody voz-
vedeniia svainykh fundamentov zdanii. Perm', Permskoe
knizhnoe izd-vo, 1963. 141 p. (MIRA 17:9)

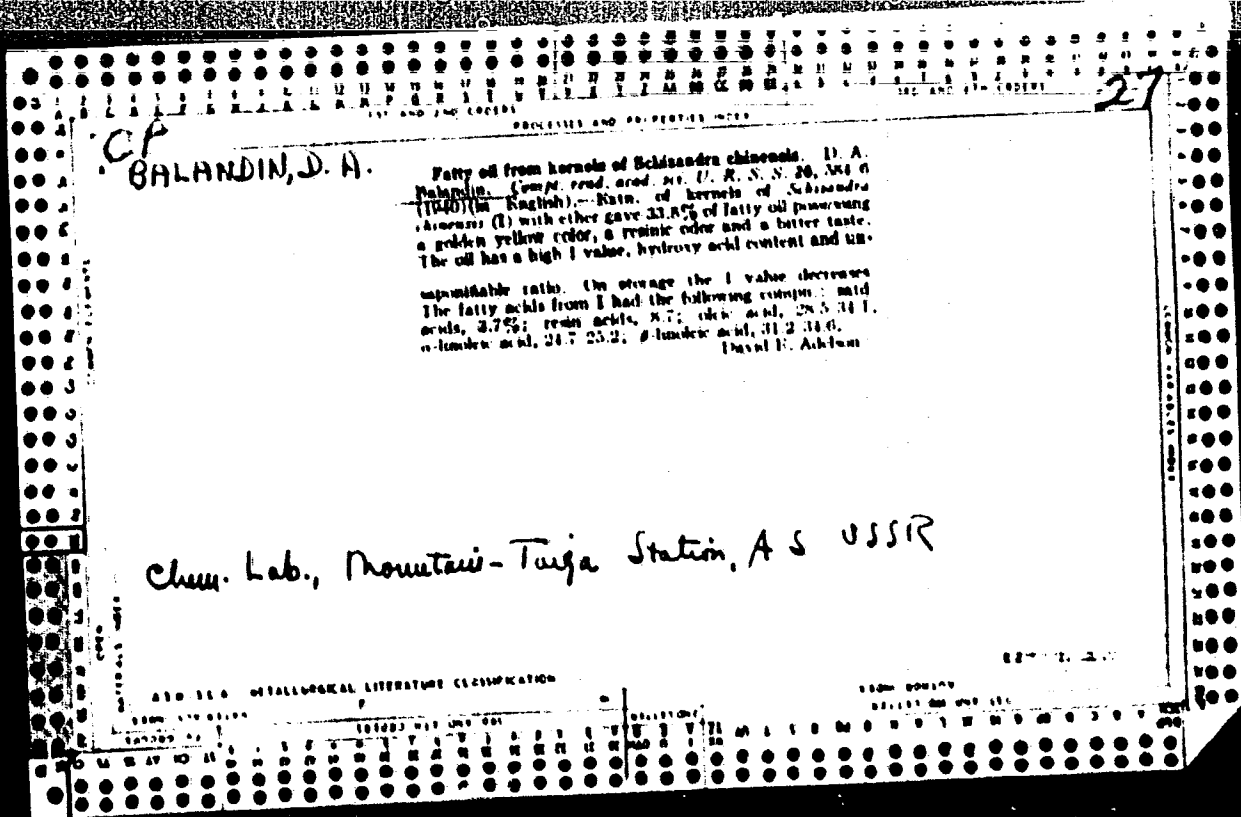
BALANDIN, A.S.

Experience obtained in the use of steam from systems of
evaporation cooling of open-hearth furnaces. From.energ
15 no.5:13-16 My '60. (MIRA 13:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Steam) (Open-hearth furnaces)

BALANDIN, D.

Soviet designers have shown originality and daring. Sov.foto.
19 no.8:50 Ag '59. (MIRA 13:1)
(Cameras)



PROCESSING AND PROPERTIES SHEET

CABALANDIN, D. N.

17

Beetle leaf lobelia as a source of lobeline. D. A. Cabalandin. *Farmakol. Zh.* No. 8, 17-19(1948).—Lobelia plants are largest and yield most alkaloids at blossom time although actual alkaloid content is highest in young shoots, disappearing entirely in old plants. The creole leaf variety (*L. esculenta*) gives a lower yield of alkaloids with lower lobeline content than Indian tobacco (*L. glabra*) but is valued for the high quality of its lobeline.
 Julian P. Smith

METALLURGICAL LITERATURE CLASSIFICATION