

The Interaction of Trivalent Cerium With the Salts of Tartaric Acid

S/073/60/026/004/014/018/XI
B023/B064

cerium salt. At a molar ratio of $Ce : T > 1$ the precipitate was not completely dissolved when the mixture contained phenol phthalein, not even in a strongly alkaline medium. At $Ce : T < 1$, the precipitate dissolved completely, long before the solution became pink. At $Ce : T = 1 : 1 - 1 : 1.3$ the solutions became turbid. The table on page 511 shows the alkali consumption in the titration of cerium tartrate compounds with phenol phthalein as indicator. Fig. p. 512 shows one of the curves of the potentiometric titration of cerium tartrate mixtures with caustic potash. At $pH = 3 - 5.5$, Ce^{3+} was found to form the salt $Ce_2(C_4H_4O_6)_3 \cdot 2H_2O$ with $C_4H_4O_6^{2-}$. When titrated with alkali up to a pH of 6.8, this salt is converted into $CeC_4H_3O_6$ or $CeOHC_4H_4O_6$. At a pH of between 6.8 and 10.7, these compounds are converted into $Ce(OH)_2C_4H_4O_6^-$ or $CeC_4H_2O_6^-$. Further conversions are possible at even higher pH values. The resistance of the cerium tartrate compounds to some reagents was studied on mixtures of 0.1-0.5 mole $Na_2C_4H_4O_6$ solutions and 0.1 mole $Ce(NO_3)_3$ solution at a molar ratio of 2 : 1 - 20 : 1; the mixtures were neutralized in the presence of phenol phthalein as indicator. The introduction of potassium

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fluoride or potassium oxalate caused the immediate formation of the respective precipitate in all cases. The excess of caustic potash affects the cerium tartrate solutions at a ratio of T : Ce < 20, i.e., the smaller the ratio, the more rapid the disturbance. The cerium hydroxide precipitation is accelerated by heating. Solutions of the cerium tartrate compounds become turbid when heated. Basic cerium salts are precipitated. When cooled, this precipitate is dissolved again. An introduction of NaCl, KNO₃, and Na₂SO₄ respectively up to a concentration of ~ 1 N caused no rapid coagulation in the cold. A cerium oxidation was found to occur in weakly acid (pH 6) and alkaline media. When H₂O₂ was added, the solutions changed color and precipitated. There are 1 figure, 1 table, and 7 Soviet references.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet (L'vov State University) L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute) ✓

SUBMITTED: May 4, 1959

Card 3/3

ZOLOTUKHIN, V.K.

Citric acid compounds of trivalent iron. Zhurnal neorg. khim. 6
no.10:2312-2315 0 '61. (MIRA 14:9)

1. L'vovskiy gosudarstvennyy universitet.
(Iron compounds) (Citric acid)

ZOLOTUKHIN, V.K.; GALANETS, Z.G.

Complex formation reactions of bivalent copper ions with
citric acid ions. Ukr.khim.zhur. 31 no.5:525-529 '65.
(MIRA 18:12)

1. L'vovskiy gosudarstvennyy universitet. Submitted July 31,
1964.

ZOLOTUKHIN, V.K.; Primala uchastiye PABECHNIK, D.M.

Gluconate complex compounds of beryllium. Ukr. Khim. zhurn. 30
no.6:565-570 '64. (MIRA 18#5)

1. L'vovskiy gosudarstvennyy universitet.

ZOLOTUKHIN, V.K.; Prinsipala uchastiye: PASEMNIK, O.M.

Trihydroxy glutarate complex compounds of beryllium, *Dokl. Akad. Nauk SSSR*,
30 no.5:443-448 '64. (MIRA 18:4)

1. I'vovskiy gosudarstvennyy universitet.

ZOLOTUKHIN, V.K.; GALANETS, Z.G.; MONCHAK, T.I.

Citrate complexes of trivalent indium. Ukr. khim. zhur. 31 no.4:
342-347 '65. (MIRA 18:5)

1. L'vovskiy gosudarstvennyy universitet.

ZOLOTUKHIN, V.K.; PASECHNIK, O.M.

Chromatographic determination of the comparative stability of beryllium and cadmium complex compounds with some organic hydroxy acids. Ukr.khim. zhur. 29 no.3:335-338 '63. (MIRA 16:4)

1. L'vovskiy gosudarstvennyy universitet.
(Beryllium compounds) (Cadmium compounds) (Acids, Organic)

ZOLOTUKHIN, V.K.; LINOK, S.V.; VERBLYAN, N.I.; BALABAS, S.I.

Comparative stability of trihydroxyglutarate, malate, and fluconate complexes of nickel and cobalt. Ukr.khim.zhur. 29 no.1:3-6 '63.
(MIRA 16:5)

1. L'vovskiy gosudarstvennyy universitet.
(Nickel compounds) (Cobalt compounds) (Acids, Organic)

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FLIS, I.Ye.; ZOLOTUKHIN, V.M.

Oxidative potentials of titanium electrodes in the solutions of
chlorine dioxide and some other oxidants. Trudy LTITSBP no.13:78-
82 '64. (MIRA 18:2)

ZOLOTUKHIN, V.P.

Fire prevention measures in the operation of industrial electric trucks and luminescent lighting. Tekst. prom. 23 no.7:84-85
Jl '63. (MIRA 16:8)

1. Starshiy inzhener-inspektor Upravleniya pozharnoy okhrany
Ministerstva okhrany obshchestvennogo porядka RSFSR.
(Textile industry--Fires and fire prevention)

AFANAS'YEV, Nikolay Arsent'yevich; ZOLOTUKHIN, Vasily Tikhonovich;

[Fire prevention in agricultural production] Pozharnaya
profilaktika v sel'skokhoziaistvennom proizvodstve. Mo-
skva, Stroiizdat, 1965. 135 p. (MIRA 1845)

ZOLOTUKHIN, V. V.

High-temperature anhydrite in Noril'sk ores. Dokl. AN SSSR
147 no.4:916-919 D '62. (MIRA 16:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN
SSSR. Predstavleno akademikom V. S. Sobolevym.

(Noril'sk region--Anhydrite)

S/147/52/000/004/019/019
E195/E48J

AUTHOR: Zolotukhin, V.K., Manager of NIS

TITLE: Communication on the Intercollegiate Conference on problems associated with the automatization of strength investigations

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika. no.4, 1962, 160-161

TEXT: The conference (June 19-22, 1962) was organized by MV, SSO UkrSSR, GKAT SM USSR and the Khar'kovskiy aviatsionnyy institut (Khar'kov Aviation Institute). Representatives of 36 organizations attended lectures on the automatic devices used in calculations, experimental investigations and processing of experimental data and were shown experimental models of such devices developed in the laboratory of the Khar'kov Aviation Institute.

SUBMITTED: October 23, 1962

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Card 2/3

Chromatographic determination of...

10/27/55
4017 A 18

Carvi V.

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13154
H/124/62/004/008/029/030
1084/1254

AUTHOR: Zolotukhin, V.K.

TITLE: Determination of tangential stresses in a thin cylindrical beam in which the longitudinal elements are in the elastic-plastic zone

PERIODICAL: Referativnyy zhurnal, Mekhanika, Svodnyy tom. no. 8V, 1962, 45-46, abstract 8V 389 (Tr. Kharkovsk. aviats. in-ta, no. 13, 1961, 29-37)

J

TEXT: The question of the choice of the effective modulus for the reduction of the cross-sectional areas of constructions at their limiting loading, using the formula of Zhuravski, is discussed in regard to applications to calculations of wings and fuselages of aeroplanes. A cylindrical shell of double shaped cross-section is considered according to the hypothesis of plane sections. Quoted examples show that modifications of the tangential modulus, as proposed by the author, lead to results which are in agreement with equilibrium conditions. They also show that a reduction, according to a sectional modulus, as used in calculations at present, give deviations in loads up to 30%.

[Abstracter's note: Complete translation.]

Card 1/1

S/264/62/000/009/002/006
I007/I207

AUTHOR: Zolotukhin, V.K

TITLE: Determination of tangential forces in a thin-walled cylindrical beam on oblique bending

PERIODICAL: Referativnyy zhurnal, vozdushnyy transport, svodnyy tom, no. 9, 1962, 9, abstract 9A44 (Tr. Kharkovsk. avyats. in-ta), no. 20, 1960, 67-22 ✓

TEXT: This is an attempt to devise a method for determining tangential forces in a thin-walled beam during bending, with more correct consideration of the changes of normal stresses in the longitudinal elements, considering these stresses to be in the

Card 1/2

AUTHOR: Zolotukhin, V. K.

S/264/62/000/004/003/005
1006/1200

TITLE: Determination of tangential stresses in a thin-walled cylindrical beam for longitudinal elements working in the elasto-plastic range

PERIODICAL: Referativnyy zhurnal, vozdushnyy transport. Svodnyy tom, no. 4, 1962, 9, abstract 4 A45, (Tr. Kharkovsk. aviats. in-ta), no. 18, 1961, 29-37

TEXT: Methods for determination of tangential stresses are presented, taking into account the real graphical dependence between σ and ϵ .

[Abstracters' note: Complete translation.]



Card 1/1

KIST'YANTS, L.K.; POPLAVSKIY, A.N.; SPIRIN, A.N.; ZOLOTYKHIN, V.N.;
PAVLENKO, I.K., inzh., retsennent; POPOV, A.V., inzh.,
red.; BOBROVA, Ye.N., tekhn. red.

[Depot forging furnaces operated with liquid fuel, natural,
and liquefied gas] Depovskie kuznechnye gorny na zhidkom
toplive, prirodnom i szhizhennom gasakh. Moskva, Trans-
zheldorizdat, 1963. 29 p. (MIRA 16:7)
(Forge shops--Equipment and supplies)
(Railroads--Repair shops)

ZOILOTUKHIN, V.T.

Enforcing fire prevention measures in flax and hemp processing
factories. Tekst.prom. 20 no.1:83 Ja '60.
(MIRA 13:5)

1. Starshiy inzhener Upravleniya pozharnoy okhrany Ministerstva
vnutrennikh del RSFSR.
(Textile factories--Fires and fire prevention)

ZOLOTUKHIN, V.T., starshiy inzh.-inspektor

Enforce fire prevention measures in factories. Tekst.prom. 21
no.3:68 Mr 161. (MIRA 14:3)

(Textile industry--Fires and fire prevention)

ZOLOTOUKHIN, V. V.; SOBOLEV, V. S.; BOBRIYEVICH, A. I.

"Tourmaline in Metasomatic Rocks of the Transcarpathian Region," Mineralog
sb. L'vovsk. geol. o-va, No 7, pp 309-312, 1953

In Transcarpathia, tourmaline in fine crystalline spherulithoid aggregates has been observed in changed liparitic tuffas and in quartzed breccia, consisting of fragments of clayey shales and granodiorite-porphyrites. In breccia are observed pyrite and separate conglomerates of fine-aggregate kaolinite. The quartz portions of the breccia consist of quartz and tourmaline. According to the data of spectral analysis, the tourmaline contains about 2% B_2O_3 , Ng 1.658, Np 1.633, Ng-Np# 0.020. In the quartz-tourmaline rocks, tourmaline is contained from 10 to 20%. In crystals of quartz from rock with zonal spherulites of tourmaline are observed inclusions of mineral forming solutions with preponderance of the gaseous phase. At 2500, the inclusions were exploded, but the homogenization was not observed. (RZhGeol, No 4, 1955)

Sum. No. 681, 7 Oct 55

КОЛОДУХИН, В.В.

**Accuracy in determining axiality on the Fedorov stage (without a
polariscope). Min.sbor. no.5:305-307 '51. (MIRA 9:12)**

**1. Gosuniversitet imeni Ivana Franko, L'vov.
(Crystallography)**

VARTANOVA, N.S.; ZOLOFUKHIN, Y.V.

Optical orientation of allanite. Min.sber.no.9:31-37 '55.
(MIRA 9:9)

L'L'vov. Gosudarstvennyy universitet imeni Ivana Franko i
Institut geologii poleznykh iskopayemykh AN USSR.
(Allanite)

ZOLOTYKHIN, V.V.; SHISHKOVSKAYA, A.S.

Introduction of new machinery and advanced technological processes.
Log.prom.15 [1.o.16] no.3:43-44 Kr 156. (MLRA 9:7)
(Kirov--Leather industry)

ZOLOTUKHIN, V.V.; KRAYUSHKIN, V.A.

Using the FED camera for microscopic work. Zap.Vses.min.ob-va
85 no.4:591-592 '56. (MLRA 10:2)

1. L'vovskiy filial Akademii nauk USSR.
(Photomicrography)

ZCLOTUKHIN, V.V.

Tridymites from the Chernaya Gora and adjacent regions in
Transcarpathia. Min.sbor. no.11:230-233 '57. (MIRA 13:2)

1. Institut geologii pelesnykh iskopayemykh AN USSR, L'vov.
(Transcarpathia--Tridymite)

ZOLOTUKHIN, V.V.

Establishing the connection between the immersion and Fedorov methods.
Zap. Vses. min. ob-va 86 no.6:720-721 '57. (MIRA 11:3)

1. Institut geologii poleznykh iskopayemykh AN USSR, L'vov.
(Crystallography) (Refraction)

ZELGINSKIY, Y.V., Cand Geol-Min Sci—(disc) "Geologo-petrographic
studies of the Black Mountain and ^{the adjacent region} of Transcar-
pathia." D'vov, 1958. 10 pp with ill (Min of Higher Education, D'vov
State Univ. Franko), 100 copies (M, 22-58, 104)

- 42 -

ZOLOTUKHIN, V.V.

Magnesian chlorite in the cement of a sandstone. Vop.vizn.osad.obr.
5:216-223 '58.

(Chlorites) (Sandstone)

(MIRA 12:3)

ZOLOTUKHIN, V.V.

Find of orange hornblendes in Transcarpathian andesites. Min.
sbor. no.12:444-448 '58. (MIRA 13:2)

1. Institut geologii poleznykh iskopayemykh AN USSR, L'vov.
(Transcarpathia--Hornblende)

ZOIOTUKHIN, V.V.

Acid extrusions in the Vinogradovo-Rokosova region in Transcarpathia. Sov.geol. 2 no.7:60-72 J1 '59. (MIRA 13:1)

1. Institut geologii poleznykh iskopayemykh AN USSR.
(Transcarpathia--Rocks, Igneous)

ZOLOTOUKHIN, Valeriy Vasil'yevich; SOBOLEV, V.S. [Soboliev, V.S.], akademik,
otv.red.; CHEKHOVICH, N.Ya. [Chekhovych, N.IA.], red.izd-va;
YEFIMOVA, M.I. [IEfimova, M.I.], tekhn.red.

[Geological and petrographic studies of Chernaya Gora and adjacent
regions in Transcarpathia] Geologo-petrografichni doslidzhennia
chornoj gory ta pryleglykh raioniv Zakarpattia. Kyiv, Vyd-vo Akad.
nauk URSR, 1960. 175 p. (MIRA 13:5)
(Transcarpathia--Petrology)

ZOLOTUKHIN, V.V.

Using the microstructural analysis in the study of effusive igneous
rocks. Inform. biul. NIIGA no.19:49-54 '60. (MIRA 13:12)
(Rocks, Igneous)

ZOLOTUKHIN, Y.V.

Calcite and interstitial water from olivine ducites in Chernaya
Gora (Transcarpathia), Geol. zhur. 19 no.4:96-99 '59.

(MIRA 13:1)

(Chernaya Gora (Transcarpathia)--Petrology))

ZOLOTOUKHIN, V.V.

Xenoliths in volcanic rocks of the Chernaya Gora region in Transcarpathia. Zap. Vses. min. ob-va 89 no.1:37-45 '60.

(MIRA 13:10)

1. Institut geologii poleznykh iskopayemykh AN USSR, L'vov.
(Chernaya Gora region (Transcarpathia)--Xenoliths)

SOLOVUKHIN, V.V.; VASIL'YEV, Ya.R.; KYUZIN, N.I.

High-ferriferous variety of prohnites and a new diagram for
prohnites. Dokl. AN SSSR, 164 no. 6:1390-1393 0 15.

(MIRA 18:10)

1. Institut geologii i profiziki Sibirskogo otdeleniya AN SSSR.
Submitted May 25, 1965.

ZOLOTUKHIN, V.V.; VASIL'YEV, Yu.R.; ZYUZIN, N.I.

High-ferruginous pumpellyite (lotrite) from the Noril'sk region and a new diagram for pumpellyites. Dokl. AN SSSR 165 no.5:1156-1159 D '65. (MIRA 19:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Submitted March 6, 1965.

ZOLOCHUKHIN, V.V.

Characteristics of the distribution of nickel in the Noril'sk 1 intrusion. Dokl. AN SSSR 162 no.6:1390-1393 Je '65. (MIRA 1847)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Submitted December 9, 1964.

ZOLOTUKHIN, Valeriy Vasil'yevich; SOBOLEV, V.S., akademik, otv.
red.

[Basic characteristics of protectonics and the problems
of ore-bearing trap intrusions as revealed by a study of
the Noril'sk deposit] Osnovnye zakonomernosti prototak-
toniki i voprosy formirovaniia rudonosnykh trappovykh in-
truzii (na primere Noril'skoi). Moskva, Nauka, 1964.
175 p. (MIRA 17:12)

SCBOLEV, V.S., akademik, otv. red.; LEBEDEV, A.P., zam. otv. red.;
LUR'YE, M.L., red.; ZOLOTUKHIN, V.V., red.; KOSTYUK, V.P.,
red.

[Plateau basalts] Bazal'ty plato. Moskva, Nauka, 1964. 135 p.
(Its: Doklady sovetskikh geologov. Problema 7) (MIRA 17:9)

1. International Geological Congress. 22d, 1964.

ZLOTUKHIN, V.V.; OLEJNIKOV, B.V.

Acidic hybrid rocks from the Gorbachin Valley (Siberian Platform).
Trudy Inst.geol.i geofiz.Sib.otd.AN SSSR no.15:80-106 '63.

(MIRA 17:4)

ZOLOTUKHIN, V.V.

Infiltration-metasomatic microzonality in the exocontact
"breccia ores" of the Noril'sk region. Dokl. AN SSSR 154
no.1:114-117 Ja'64. (MIRA 17:2)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Predstavleno akademikom V.S. Sobolevym.

ZOLOTUKHIN, V.V.

Preliminary results of using microstructural analysis for studying
the Noril'sk 1 differentiated intrusion. Trudy Inst.geol.i
geofiz.Sib.otd.AN SSSR no.15:107-112 '63. (MIRA 17:4)

ZOLATUKHIN, Valentin Vasil'yevich, general-lejtenant, partiyno-politi-
cheskiy rabótnik

Essential factor in military development. Voen. vest. 4.1 no.11:
18-19 N '61. (MIRA 16:11.)

1. Chlen Voenogo sojeta, nachal'nik politicheskogo upravleniya
Leningradskogo voyennogo okruga.

SOBOLEV, V.S.; ZOLOTUKHIN, V.V.; DOBRETSOV, N.L.

V.N.Lodochnikov's works on Siberian petrography| on the 75th
anniversary of his birth. Geol.i geofiz. no.5:138-139 '62.
(MIRA 1518)

(Lodochnikov, Vladimir Nikitich, 1887-1943)
(Siberia--Petrology)

KOSTYUK, V.P.; ZOLOTKHIN, V.V.

Formation of hypabyssal intrusions of amphibole-pyroxene andesites
in Transcarpathia. Geol.sbor. [Lvov] no.7/8:129-142 '61. (MIRA 14:12)

1. Institut geologii poleznykh iskopayemykh AN USSR, L'vov.
(Transcarpathia--Andesites)

ZOLOTUKHIN, V.V.; VASIL'YEV, Yu.R.

Skarns of the Noril'sk region. Trudy Inst. geol.i geofiz.
Sib.otd. AN SSSR no.30:209-279 '64.

(MIRA 18:11)

ZOICHTUKHIN, Ya.; ZHARIKOV, M.

Selecting efficient systems for central lubrication of automobiles.
Avt. transp. 36 no.2:24-26 F '58. (MIRA 11:2)
(Automobiles--Lubrication)

ZOLOTKHIN, Ye.N.

[Organization of fuel control sections in motor depots] Organizatsia benzinovogo khoziaistva v avtobazakh. Leningrad, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Leningradskoe otd-nie] 1953. 131 p. (MLRA 7:2)
(Automobiles--Fuel consumption)

ZOLOTUKHIN, Ye.; ZHARIKOV, M.

Selecting efficient systems for central lubrication of automobiles.
Avt. transp. 36 no.2:24-26 F '58. (MIRA 11:2)
(Automobiles--Lubrication)

KORYAKIN, Sergey Fedorovich, dotsent, kand.ekon.nauk; BERNSETSYN, Isaac L'vovich, dotsent, kand.ekon.nauk; ELLINSKIY, Yuriy Fedorovich, starshiy prepodavatel'; DOLITSKIY, Ya.I., prof., doktor ekon.nauk, retsenzent; CHERKESOV-TSIBIZOV, A.A., starshiy prepodavatel', retsenzent; FROLOV, A.S., dotsent, kand.tekhn.nauk, retsenzent; KRUGLENKO, N.K., inzh., retsenzent; ZOLOTUKHIN, Yu.A., obshchiy red.. V redaktirovani priimani uchastiye: OGANOV, N.K., dotsent, red.; DUBCHAK, V.Kh., inzh., red.; MARTIROSOV, A.Ye., inzh., red.; KHAR'KOV, G.I., starshiy nauchnyy sotrudnik, red.; NERASHNINNIKOV, V.G., dotsent, kand.ekon.nauk, red.; GEMETBARO, Ye.A., inzh., red.; SHCHEGOLEV, G.G., inzh., red.; PHILUTSKIY, M.A., inzh., red.; KANTOR, L.M., dotsent, kand.ekon.nauk, red.; KUZ'MIN, T.P., inzh., red.; FILIPPOV, K.D., red.. KSENOFONTOVA, Ye.#., red.izd-va; TIKHONOVA, Ye.A., tekhn.red.

[Economics of water transportation] Ekonomika morskogo transporta.
Pod obshchei red. I.U.A.Zolotukhina. Moskva, Izd-vo "Morskoi transport",
1959. 391 p. (MIRA 13:3)

(Shipping--Finance)

GENEHL'MAN, Yeva Isayevna; ZIL'BERMINTS, Lyudmila Veniaminovna; ZOLOTOUKHIN,
Ye. N. nauchnyy redaktor

[What the driver should read in preparation for third and second
class examination] Ghto chitat' shoferu pri podgotovke k sdache
ekzamenov s III na II klass. Pod nauchnoi red. E.N. Zolotukhina.
Izd. 2-oe, perer. i dop. Leningrad, 1956. 43 p. (MIRA 10:1)

1. Leningrad. Publichnaya biblioteka.
(Bibliography--Automobile drivers)

Zelotukhin, Ye

Organizatsiya benzinovogo khozyaystva v avtomobilyakh (Organization of gasoline economy in motor vehicle bases) Moskva, Mashiniz, 1961
131 v. illus., diagrams, tables.

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ZOLYUKHIN, Ye.S., inzh.

Equipment for the distribution of compressed air. Mashinostroitel'
no.12:15-17 D '58. (MIRA 11:12)
(Pneumatic control)

SCV/117-59-3-5/37

25(2)

AUTHOR: Zolotukhin, Ye.S., Engineer

TITLE: Automatic High-Finish Lines for Parts (Avtomaticheskiye linii po sverkhchistovoy obrabotke detaley)

PERIODICAL: Mashinostroitel', 1959, Nr 3, pp 7 - 8 (USSR)

ABSTRACT: The article contains a description of fully automated super-lapping lines for bearing races, finishing the grooves on both sides of the races. It was built and employed at the 4 Gosudarstvennyy podshipnikovyy zavod (The 4th State Bearing Plant). Every line comprises four specially designed automats for the process. All control is pneumatic, mostly with the use of the special air distributors that were described earlier ("Mashinostroitel", 1958, Nr 12, p 15). Detailed operation information is illustrated by a diagram (Figure 1) showing a line, and two diagrams (Figures 2,3) showing the

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Automatic High-Finish Lines for Parts

design of the charging and transporting arrangement. This new process has replaced the former polishing, and eliminated the wiping and other auxiliary work. It has also cut down the use of abrasive material. There are 3 diagrams.

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ZOLOTUKHIN, Ye.S., inzh.

Automatic machine for superlapping grooves of internal bearing
rings. Mashinostroitel' no.7:16-17 J1 '59. (MIRA 12:11)
(Grinding machines)

SOV/L17-59-7-7/28

25(7)

AUTHOR: Zolotukhin, Ye.S., Engineer

TITLE: An Automatic Machine for Super-Lapping Inner Bearing Races

PERIODICAL: Mashinostroitel', 1959, Nr 7, pp 16-17 (USSR)

ABSTRACT: Detailed design and operation information is given on special two-position automatic machines for the super-lapping of grooves of bearing races, designed and put into use at the 4 Gosudarstvennyy podshipnikovy zavod (4th State Bearing Plant). The machine has two independent positions and the pneumo-kinematical system in one of them is shown in a diagram (Figure 1). The air-distributing unit was described in "Mashinostroitel'" Nr 12, 1958. It controls all the mechanisms of the machine. For the convenience of setting, the lapping device and the tailstock of the machine can be switched on by pneumatic taps, independently of the mentioned air-distributing unit. The lapping device (Figure 4) is driven by an electric

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SOV/117-59-7-7/28

An Automatic Machine for Super-Lapping Inner Bearing Races

motor (Figure 1) through a V-belt, its spindle is oscillated by a crank drive during the lapping operation. The holder for the abrasive lapping tool is brought into operating position by means of compressed air, and a spring maintains constant pressure upon the tool holder and the tool itself. When the lapping tool wears off, a micro-switch cuts off the electric motors of the machine and a signal lamp lights. There are 4 diagrams.

Card 2/2

ZOLOTUKHIN, Ye.S., inzh.

Automatic lines for superfinishing parts. Mashinostroitel' no. 3:7-8
Mr '59. (MIRA 1213)

(Grinding machines)

GORBOV, V.F.; ZOLOTUKHIN, Ye.S.; BAKANOV, Ye.D.; NOVIKOV, G.S.

Automatic machines for superfinishing ball races. Suggestion
by V.F. Gorbov and others. Prom.energ. 11 no.7:16-17 J1 '56.
(MLRA 9:10)

(Ball bearings) (Metalworking machinery)

AUTHOR: Zolotukhin, Ye. S., Engineer SOV/117-58-12-12/36

TITLE: A Device for Compressed Air Distribution (Ustroystvo dlya raspredeleniya szhatogo vozdukha)

PERIODICAL: Mashinostroitel', 1958, Nr 12, pp 15 - 16 (USSR)

ABSTRACT: At the Kuybyshevskiy podshipnikovyy zavod (Kuybyshev Bearing Plant), a pneumatic drive was brought into use which is operated from a flat round side-valve, rotating on the body, and having concentric grooves for the feed and escape of compressed air. This device is being successfully used for the automatic control of charging devices, of semi-automatic self-operating internal grinders, and automatic machines and lines for finishing bearing race grooves. The design and operation of the side-valve and its use in an air distributing device, which consists of a slide valve box and a worm reductor, are described. There are 4 diagrams.

Card 1/1

ZOLOTUKHIN, Ye.S.

New conveyer. Mashinostroitel' no.9:26-27 S '61.
(Conveying machinery)

(MIRA 14:10)

ZOLOTUKHIN, Yevgeniy Savast'yanovich; POSTNIKOVA, I.V., red.; YASHEV'KINA,
Ye.A., tekhn. red.

[Pneumatic control devices for machine tools] Pnevmaticheskie ustroi-
stva, avtomatiziruiushchie raboty stankov. Kuibyshev, Kuibyshevskoe
knizhnoe izd-vo, 1959. 45 p. (MIRA 14:7)
(Machine tools) (Pneumatic control)

ZOLOTUKHIN, Yu.

Literature for merchant marine workers in 1959. Mor. flot 19
no.2:46-47 F '59. (MIRA 12:3)

1. Glavnyy redaktor izdatel'stva "Morskoy transport."
(Bibliography--Merchant marine)

ZOLOPUKHIN, Yu.

Books issued in 1957 by the publisher of "Morskoi Transport". Mor.
flot 17 no.4:28-29 Ap '57. (MIRA 10:4)

1. Glavnyy redaktor izdatel'stva "Morskoy transport".
(Bibliography--Merchant Marine) (Merchant Marine--Bibliography)

BORODINA, M.L.; GOMOZOVA, V.G.; MIKHAYLOVA, Yu.V.; ZOLOTYKHINA, A.N.

Effect of nuclei used in the production of titanium dioxide
on its pigmentary properties. Lakokras. mat. i kh. prim.
no.4:16-21 '61. (MIRA 16:7)

(Titanium oxide) (Pigments)

ZOLOTUKHINA, A.P.

Quantitative Determination of Antimony Using Rhodamine "V." (In Russian.) L. E. Subina and A. P. Zolotukhina. *Zavodskaya Laboratoriya* (Factory Laboratory), v. 15, Apr. 1949, p. 398-401.

Proposes method differing from that of Frederic with respect to acidity of the medium in which the complex is formed, final acidity, and type of acid used. Comparative data are tabulated. Theoretical bases of the proposed method are indicated.

Ural Polytech. Inst.

ALL-URSS METALLURGICAL LITERATURE CLASSIFICATION

SOLOTUKHINA, E.

11A

Some pharmacological properties of the alkaloid of *Fritularia novaezovii*. E. S. Solotukhina. *Doklady Akad. Nauk SSSR*, No. 6, 15-21 (1965).—Tubers of *Fritularia novaezovii* yield alkaline (I), notable mainly for its local anesthetic action. Its salts are stable to boiling 15 min. or storage for 6 months. It ranks close to cocaine (II) in anesthetic activity; its $CHCl_3$ fraction (III) ranks above and its ether fraction (IV) below II, in tests on rabbit uterine cornu. Depth of anesthesia is in direct ratio to concn. of I. Adrenaline (V) intensifies the anesthetic effect of I. At 3-4% I causes mydriasis (lessened by pilocarpine); below 2% it is not mydriatic. At 3-4% it causes prolonged conjunctival and scleral hyperemia; at 1%, slight conjunctival vasodilation, but none at 0.5%. In infiltration (local) anesthesia of guinea pigs I and IV give duration equal to that of procaine (VI); III doubles this duration. No stimulant action on tissues was observed in these tests. All the tested preps. gave conductive anesthesia by acting on frog and rabbit sciatic nerves, but no paralysis of motor terminal in the frog sciatic nerve. A vasodilator effect of I in isolated rabbit ear is intensified by V. Intravenously II is 4 times as toxic as I and about as toxic as III and IV. In rabbits under urethan (VII) intravenous I stimulates respiration in toxic doses, inhibits it in lethal doses. A toxic dose (0.01/kg., unit not named) of I first lowers, then raises blood pressure in rabbits under VII. Lethal doses kill by respiratory paralysis. Slowing of isolated frog heart contractions by I, III, and IV follows action of toxic doses on cardiac muscles. The central nervous system is first stimulated, then paralyzed. Salts of I, III, and IV were used at 10, 20, 40, 100, 200, and 1000 μ g./gm. in blood-pressure tests (isolated rabbit ears), and their hydrochlorides at 0.25, 0.5, 1, 2, 3, and 4% in anesthesia tests.

Julian P. Smith

LEVIN, S.; RYZHENKO, D.; BRÖMBERG, R.; KUZNETSOV, I.; CHESAK, V.;
ZOLOTUKHINA, G.

Some results of the work of metallurgical plants under the new
conditions. Sots.trud 4 no.9:53-59 S '59. (MIRA 13:1)
(Steel industry--Production standards)

GORELOVA, Ye.; DEMESHKO, L.; ZOLOTUKHINA, G.; PERLOVA, E.

Methodology for developing norms for the number of workers in
metallurgical plants. *Biul.nauch.inform.: trud i zar.plata* 5
no.8:29-34 '62. (MIRA 15:7)

(Steel industry)

VELIKANOV, Karp Mironovich. Prinsipialni uchastiye: BARMASHNEVA, G.K.;
GOLDOBIN, M.A.; ZOLOTUKHINA, G.A.; KARANDASHOVA, K.S.;
OL'KHOV, G.A.; SAVINA, V.N.; FAYERMAN, A.I. SHRELIH, V.I.,
inzh., retsenzent; NIKIFOROV, A.F., dotsent, red.; BOHOTULINA,
I.A., red.isd-va; SPERANSKAYA, O.V., tekhn.red.

[Determining the economic efficiency of various methods for
machining parts] Opredelenie ekonomicheskoi effektivnosti
variantov mekhanicheskoi obrabotki detalei. Moskva, Mashgin,
1961. 211 p. (MIRA 14:12)
(Metal cutting)

YEGOROVA, M. N.; ZOLOTUKHINA, G. K.; TERESHIN, I. M.

"Synthesis of nucleic acids and proteins in bacterial cells of *Shigella flexneri* in presence of L-chloramphenicol."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Sci Res Inst of Antibiotics, Leningrad.

DOMBROVSKIY, A.V.; ZOLOTUKHINA, K.G.; GANUSHCHAK, N.I.

Complex compounds of cobalt and copper thiocyanates and antimony and bismuth iodides with 4-~~is~~-piperidino-2-methyl-1-phenyl-2-butene. Ukr.khim.zhur. 28 no.4:459-461 '62. (MIRA 15:8)

1. Chernovitskiy gosudarstvennyy universitet.
(Complex compounds) (Metals--Analysis)

ZOLOTUKHINA, K.G.; GANUSHCHAK, N.I.; YUKHOMENKO, M.M.; DOMEROVSKIY, A.V.

Tertiary amines and quaternary salts based on 4-chloro-1-aryl-2-butenes
of secondary and tertiary heterocyclic nitrogen bases. Zhur.ob.khim.
33 no.4:1222-1227 Ap '63. (MIRA 16:5)

1. Chernovitskiy gosudarstvennyy universitet.
(Amines) (Heterocyclic compounds)

ZOLOTUKHINA, L.

Conference on the quality of conveyer belts. Kauch. i rez. 18
no.2:59-60 F '59. (MIRA 12:4)
(Belts and belting)

AUTHOR: Zolotukhina, L. SOV/138-59-2-22/24
TITLE: Conference on the Quality of Conveyor Belts
(Soveshchaniye po kachestvu transporternykh lent)
PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 59-60 (USSR)

ABSTRACT: This conference was held on December 9 to 11, 1958 in the Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Research Institute for the Rubber Industry). Representatives of the Leningrad, Sverdlovsk and Moscow Sovnarkhoza (Council of National Economy), GosplanRSFSR, GNTK and various planning organizations were present. Reports were read by the Deputy Director of NIIRP, S. V. Burov, and the Chief Engineers of the factory "Kauchuk", V. K. Smirnov, of the Leningrad Factory RTI: P. I. Tikhomirov, the Head of the Central Laboratory of the Sverdlovsk Factory RTI V. I. Yudin and the Head of the Technical Department of the Kursk Plant of RTI: I. S. Temirbulatov. It was pointed out that the quality of conveyor belts was improved considerably during 1957-1958 by using rubber mixtures with increased content of rubber. The use of these rubber mixtures made it possible to introduce a new

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SOV/138-59-2-22/24

Conference on the Quality of Conveyor Belts

standard GOST 20-57 for conveyor belts which ensures improved physical and mechanical characteristics of the belts and makes it possible to extend the guarantee period by 30 to 40%. Recommendations for further improvements of the conveyor belts included the use of chemical fibres (Kapron, "Anid" and glass fibres) and of metallic elements. The most important recommendations are summarised. The physico-mechanical characteristics of the coating compositions A-1, A-2-R, A-2-U, A-2-O, A-3 and V are tabulated. There is 1 table.

Card 2/2

ZOLOTUKHINA, L.I.

In the International Standards Organization, Technical Committee
No.41 "Pulleys and Belts." Standartizatsiia 25 no.9:58-59 S '61.
(MIRA 14:9)

(Belts and belting--Standards)
(Pulleys--Standards)

85382

S/032/60/026/010/014/035
B016/B054

18-8200

AUTHORS: Balandin, Yu. F., Bratukhina, V. A., and Zolotukhina, M. A.

TITLE: Methods of Testing ^{no} Materials Used Under the Continuous Action of Cyclic Thermal Stresses ^{no}

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 10, pp. 1130-1132

TEXT: The authors discuss two methods of testing the continuous action of cyclic thermal stresses: a) The samples are chucked in special clamps (Fig. 1). The sample and the clamp must be of the same material, or of materials with a similar coefficient of expansion. A difference in this coefficient would effect an additional deformation (or relief) of the sample. The dimensions of sample and clamp given in Fig. 1 are practically the possible minimum. The samples stretched to a certain extent are put into a furnace which is heated to the required temperature. After a certain period of time, the samples are taken out of the furnace, cooled, relieved, then again stretched to the same extent as in the first cycle, and so on. The tests are continued until the destruction of the sample, X

Card 1/3

85382

Methods of Testing Materials Used Under the S/032/60/026/010/014/035
Continuous Action of Cyclic Thermal Stresses B016/B054

or until attaining the given number of cycles. The internal stress of the sample can be determined by measuring the elastic deformation. Thus, the following parameters are given in this method: the deformation characterizing the temperature gradient under the conditions of practical use of the material; the temperature corresponding to the actual state of the material in the respective construction; and the duration of the action of temperature which is chosen to be equal to the average period of time between the abrupt fluctuations of the temperature field along the cross section of the workpiece. b) The second method, which also simulates a continuous action of cyclic thermal stresses, is based on a periodic loading of rings made of the material to be tested in the form of wedges driven in. Fig. 2 shows the geometrical dimensions of a test ring chosen on the basis of a preceding calculation. By analysing half the ring loaded by a force perpendicular to the opening (Ref., Footnote 3) it is possible to establish a relationship between the variation of the opening width and the stresses resulting in the outer fibers of the central ring part (cross section AA, Fig. 2) within the elastic range. Either of the test methods simulating a continuous action of cyclic thermal stresses, has its specific advantages. Therefore, it is convenient to choose the method

Card 2/3

Methods of Testing Materials Used Under the
Continuous Action of Cyclic Thermal Stresses

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S/032/60/026/010/014/035
B016/B054

according to the purpose of investigation. There are 3 figures and
1 Soviet reference.

Card 3/3

1.9600

S/032/61/027/001/016/037
B017/B054

AUTHORS:

Balandin, Yu. F. and Zolotukhina, M. A.

TITLE:

New Method of Testing the Resistance of Constructional
Materials to Thermal Fatigue

PERIODICAL:

Zavodskaya laboratoriya, 1961, Vol. 27, No. 1, pp. 63-66

TEXT: The method suggested by G. P. Lazarev (Ref. 3) to determine the deformation of cylindrical constructional materials was modified to determine their thermal fatigue. Test specimens were heated in a furnace to a given temperature, and subsequently cooled by running water. The number of cracks, their shape, their distribution over the surface, and their size were microscopically determined; the thermal fatigue of EI 726 steel was determined from the growth of cracks. The thermal fatigue of EI 726 (EI 726) steel was tested on cooling from 700° to 10°C and from 900° to 10°C. A comparison of the curves showed that cracks grew earlier and faster on cooling from higher temperatures. The new method permits a comparative investigation of constructional materials of different chemical compositions and thermal treatments. There are 2 figures and 3 references:

Card 1/2

88284

New Method of Testing the Resistance of
Constructional Materials to Thermal Fatigue

S/032/61/027/001/016/037
B017/B054

2 Soviet.

X

Card 2/2

ZOLOTUKHINA, M.D., inzh. (Novosibirsk)

Determination of carbon dioxide in water run through
H-cation exchanger filters. Energetik 13 no.11:9-10
N '65.

(MIRA 18:11)

ZOLOTUKHINA, M.D., inzh.

Determination of small quantities of silicic acid in water solutions.
Energetik 13 no.3:5-6 Nr '65.
(MIRA 18:7)

SHAKHNOVICH, R.A.; GAYDAMOVICH, S.Ya.; ZOLOTUKHINA, N.A.

Outbreak of acute viral neuroinfection (encephalitis) in Krasnojarsk.
Zhur. nevr. i psikh 59 no.3:334-336 '59. (MIRA 12:4)

1. Kafedra nervnykh bolezney (zav. - prof. R.A. Shakhnovich) Krasnoyarskogo
meditsinskogo instituta, laboratoriya (zav. A.N. Shabladze) Instituta
virusologii AMN SSSR.

(ENCEPHALITIS, EPIDEMIC, epidemiol.
in Russia (Rus))

21346-66
ACC NR: APG01250R

TOPIC: JE/AM/DZ/HA

Investigation of lubricants in hot extrusion of steel

Author: [illegible]

TOPIC TAGS: steel extrusion, hot extrusion, extrusion lubricant, glass lubricant, glass lubricant deposition

ABSTRACT: Twenty different glass lubricants have been tested in hot extrusion of steel. The chemical composition of some of the glass lubricants as a function of the softening temperature in a hot extrusion process was studied. It was found that the softening temperature of the glass lubricant, reduced the friction coefficient and ensured a better adhesion of the lubricant to the steel surface. The quality of the extruded steel was improved. The softening temperature of the glass lubricant varied from 100 to 1500°C. The softening temperature of the glass lubricant was related to the softening temperature of the steel.

Card 1/2

UDC: 621.891

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ACC NR: AP6012608

3

Date		Mass		Components	
Year	Month	Weight	Volume	Weight	Volume
1950	10	1.43	0.38	0.4	0.1
1951	07	1.75	0.40	0.75	0.1
1952	07	1.4	0.35	0.65	0.1
1953	07	1.4	0.35	0.65	0.1
1954	07	1.4	0.35	0.65	0.1
1955	07	1.4	0.35	0.65	0.1
1956	07	1.4	0.35	0.65	0.1
1957	07	1.4	0.35	0.65	0.1
1958	07	1.4	0.35	0.65	0.1
1959	07	1.4	0.35	0.65	0.1
1960	07	1.4	0.35	0.65	0.1

AUTHOR: ZOLOTUKHINA, N.S., TULENKOV, F.K., and VAYNSHENKER, I.I. PA - 2403
TITLE: Combination of Wire Patenting and Galvanizing. (Sovmeshoheniye patentirovaniya i otsinkovaniya provoloki, Russian).
PERIODICAL: Stal'. 1957, Vol 17, Nr 2, pp 165 - 168 (U.S.S.R.)

ABSTRACT: Within the last few years patenting of wire changed over almost entirely from using lead to the application of molten potassium nitrate. Besides, drawing of zinc-coated and patented wire has been introduced for almost all diameters. The steel-wire and hemp-rope plant in Odessa developed a new procedure for simultaneous patenting and zinc-coating, which is based on the fact that the temperatures for patenting (450 - 520° C) and for zinc-coating (450 - 490° C) are near to each other. The zinc served at the same time as a coating for the wire and as a medium for isothermal cooling down.

Wire material produced in this way differed very little with respect to zinc coating, structure, and mechanical properties, from the qualities obtained by the usual processes of successive zinc-coating and patenting of the blanc wire. The finished wire corresponds to the standard specification GOST 3241-46. The thickness of the zinc-coating is sufficient to obtain a wire with a permissible ratio of reduction of 75 - 80 % on further drawing.

Card 1/2

VAYNSHENKER, I.I., inzhener; ZOLOTOZHINA, N.S., inzhener; TULENKOV, F.K.,
tekhnik.

Reduction of lead losses in patenting. Stal' 15 no.1:76-79 Ja '55.
(MLRA 8:5)

1. Odesskiy staleprovolochno-kanatnyy zavod.
(Lead plating) (Wire)

104 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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