

DURING ELABORATION OF CRYSTALS OF SILVER CHLORIDE
SECRET - PLASTIC DEFORMATION
U.S. AIR FORCE Vol. 38, No. 3, 1951
CIBS AIRC. ADP. 520/114
LI TAI-AN

KUZNETSOV, B.A.

Optical study of fatigue in silver chloride. Zhur.tekh.fiz. 26
no.5:1034-1044 My '56. (MLRA 9:8)
(Silver chloride) (Deformations (Mechanics))

KUZNETSOV, B.A.

Orig. : Zhur. tekhn. fiz. i mekhan. svoystva kristallov i polikristallov. E-9
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928120001-8
Crystals and Polycrystalline Compounds

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6779

Author : Kuznotsov, B.A.
Title : Study of Stresses in Silver Chloride Crystals During Elasto-
Plastic Bending.

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 7, 1611-1621

Abstract : Coarse-grain plates of silver chloride 1 mm thick and 7 --
7.5 mm wide were bent by application of a force lying in the
plane of the plate. By determining the optical path dif-
ference at the points located on the transverse-section line
of the specimen, the distribution of stresses were studied
along this line. Upon transition to the plastic region in
smooth specimens, the stresses on the edges become less than
in the sections located closer to the neutral axis. In
grooved specimens the increase in the degree of plastic de-
formation causes an increase in the stresses at the apex of
the groove. The presence of a groove increases strongly
the yield point of the crystal in bending.

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KUZNETSOV, B.A.

SOV/137-58-11-23399

Recrystallization of Cold-rolled Steel Under Rapid Induction Heating

resulting from the various degrees of solubility of C in ferrite at different temperatures. High plastic characteristics were attained by heat treatment of the metal at temperatures ranging from 690 to 710°C, the duration of the entire cycle being 0.5-1 second.

A. V.

Card 2/2

~~KUZNETSOV, A.~~

Polarization method of investigating small plastic deformations.
Zav. lab. 23 no.5:610-611 '57. (MIRA 10:8)

1. Nauchno-issledovatel'skiy institut tokov vysokoy chastoty
imeni V.P. Vologdina.
(Deformations (Mechanics)) (Polarization (Light))

KUZNETSOV, B.A.

Recrystallization of low-carbon steel during quick induction heating. Metalloved i obr. met. no.2:28-35 F '58.(MIRA 11:2)
(Steel--Heat treatment)
(Solidification)

129-2-6/11

AUTHOR: Kuznetsov, B.A.

TITLE: Recrystallisation of Low Carbon Steel in the Case of
Rapid Induction Heating (Rekristallizatsiya malouglerod-
istoy stali pri bystrom induktsionnom nagreve)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No.2,
pp. 28 - 35 (USSR).

ABSTRACT: The processes taking place during heating of work-hardened metal have been studied in adequate detail. However, most of the obtained data relate to experiments in which the material was kept at the annealing temperature for a relatively long time and the heating speed to the given temperature was not taken into consideration. Investigation of the influence of the heating speed on the recrystallisation process of certain non-ferrous materials was carried out by M. Spevak (Ref.1) who heated the specimens rapidly by means of passage of an electric current; he arrived at the conclusion that the grain size after primary recrystallisation was strongly dependent on the heating speed. This is attributed to the fact that, with increasing temperature, the speed of formation of crystallisation centres increases faster than the speed of growth of the grains and, therefore, the primary recrystallisation structure will be finer in the case of rapid than in the case

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Recrystallisation of Low Carbon Steel in the Case of Rapid Induction Heating.

of slow heating. Yu.M. Bogatyrev and S.M. Gamazkov (Ref. 2) published data on the recrystallisation annealing of the steels 10 and 1X18H9T in the case of rapid heating by means of electric current. For the steel 10, satisfactory ductility properties were obtained on heating for 1 sec to 800 to 850 °C, followed by cooling in air; the results were much less favourable if the cooling was effected by quenching in hot-water. The authors (Ref.2) did not study the influence of rapid heating and accelerated cooling on the process of ageing of the steel. The investigations carried out by the author of this paper aimed at elucidating the features of the recrystallisation process of the steel 08 in the case of rapid induction heating and also of establishing the influence of various factors (heating speed, heating temperature, cooling speed) on the properties of annealed steel. The specimens consisted of 0.5 mm thick cold-rolled sheet (with a reduction of 80%) with the following composition: 0.12% C, 0.31% Mn, 0.028% S, 0.012% P and traces Si. Induction heating was effected by means of a loop inductor with an iron core, permitting uniform heating of an area of 30x150 mm.

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The inductor was fed from an 8 000 c.p.s. rotary generator. The heating temperature of the specimens was varied between 600 to 900 °C and the heating time varied between 105 and 10 sec. The cooling was effected in water at 15 °C, in air and in air for 6 to 12 sec followed by quenching in water; a part of the specimens were heated in the furnace for 10 min. The processes taking place during heating of the work-hardened steel were studied on the basis of data of metallographic and X-ray structural analysis, hardness and microhardness tests and also tensile and stamping tests. Fig. 1 shows the dependence of the temperature of the beginning and the end of recrystallisation on the heating speed and it can be seen that, with increasing heating speed, the temperature of the beginning and the end of the primary recrystallisation increases and this increase slows down in the range of elevated temperatures. It can be seen from Fig. 2 that the grain size increases only slightly with increasing temperature during rapid heating (Curve 1). The changes in the structure of the steel during rapid induction heating can be gauged from the microphotographs reproduced in fig. 3. Hardness tests

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Induction Heating.

have shown that for obtaining good ductility properties after induction heat treatment, the heating temperature should be sufficiently high and the cooling speed relatively low. The mechanical properties of recrystallised steel strip after various heat treatment regimes are entered in Table 1. The change in the mechanical properties of strip heated to 880 °C with a heating time of 2.5 sec, as a function of time, for durations of up to 14 days are entered in Table 2. It was found that after short-duration heating, the change in the hardness as a function of time depends not only on the heating temperature and the method of cooling, but also on the heating speed (see Fig.4); comparison of the individual graphs reproduced in Fig. 4 leads to the conclusion that the change in the properties of steel as a function of time is influenced by the removal of the residual, type II, distortions and dispersion hardening and an increase or decrease in hardness will take place, depending on which of these two processes is predominant in the given time interval. Investigation of the hardness of specimens subjected to various heating and cooling regimes indicate that there is a relation between the changes

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Recrystallisation of Low Carbon Steel in the Case of Rapid
Induction Heating.

in the ductility properties of recrystallised steel, caused by changing over from one regime to another, and the changes in the structure and presence of type II distortions. Of great interest are the hardness values of specimens after rapid heating to 650 °C and cooled in water. Immediately after cooling, their hardness equalled $H_V = 120$; after 3 days, the hardness decreased to $H_V = 110$ and then remained almost unchanged. Such a recrystallisation annealing may prove useful for a continuous removal of the work hardening of cold-rolled steel strip using HF heating. There are 4 figures, 2 tables and 3 Slavic references.

AVAILABLE: Library of Congress.
Card 5/5

KUZNETSOV, B.A.

Using the electromagnetic method for testing the quality of case
hardening. Stan.1 instr. 29 no.12:27-29 D '58. (MIRA 11:12)
(Case hardening--Testing)

KUZNETSOV, B.A., insh.

Determining frequency characteristics of strain gages. Ugol' Ukr. 3
no.11:35 N '59. (MIRA 13:3)

(Strain gages)

KUZNETSOV, B.A.

Determination of residual stresses by the optical polarization
method. *Zav.lab.* 26 no.2:208-209 '60. (MIRA 13:5)
(Strains and stresses)

KUZNETSOV, B.A.

Strain-gauge amplifier with a half-wave phase-sensitive
detector. Avtom.i prib. no.1:92-93 Ja-Mr '62. (MIRA 15:3)

1. Donetskij politekhnicheskij institut.
(Amplifiers (Electronics))

MOROZOV, R.P.; KIVCHENKOV, B.A.; KRASNIKOV, Yu.G.

Transistorized "time delay" unit. Avtom. i prib. no.1:43-45
Ja-Mr '65. (MIRA 18:8)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928120001-8

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resistors, photodiodes at ambient temperature, and the
voltage is 1.17 V. The original is shown in Figure 1.

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CIA-RDP86-00513R000928120001-8"

ACC NR: AT7002103

SOURCE CODE: UR/0000/66/000/000/0164/0164

AUTHOR: Kuznetsov, B. A.

ORG: none

TITLE: Investigation of initial stage of plastic deformation in polycrystalline metals

SOURCE: Vsesoyuznaya konferentsiya po polarizatsionno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 164-169

TOPIC TAGS: crystal dislocation, plastic deformation, polycrystal, optic measurement

ABSTRACT: By virtue of the photoelastic coating method which permits the study of distribution of elastoplastic deformations down to the size of individual polycrystalline metal grains, the author has investigated these deformations in austenitic rust-proof steel 1Kh18N9T and titanium. The samples measuring 2.5 x 0.5mm and 30mm in length were polished, etched, and covered by ED6 epoxy resin 0.03--0.08mm thick. The accuracy of determination of maximum dislocations and direction of principal deformations were 0.5×10^{-4} and 1° , respectively. It was established that the

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ACC NR: AT7002103

elastoplastic deformations in different 1Kh18N9T steel grains have wide magnitude and direction distributions. The ratio of maximum to minimum dislocation was 7--10, and the principal deformations had directions varying in the range 25--30° (when average sample elongation was 1.2%). In titanium, plastic deformation is maximum at slip lines. Maximum value of plastic deformation shift occurs on the boundaries of plastic regions and is of the order of 1.7×10^{-2} . Orig. art. has: 9 figures.

SUB CODE: 11/ SUBM DATE: 14Jun66

Card 2/2

KUZNETSOV, B.A., knad.tekhn.nauk

Taking into account the thread friction in designing knitting machine systems. Izv.vys.ucheb.zav.; tekhn.prom. no.6:92-98 '61. (MIRA 14:12)

1. Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti. Rekomendovana kafedroy mashin i apparatov. (Knitting machines)

KUZNETSOV, B.A., kand.tekhn.nauk

Threading the needles of warp knitting machines. Izv.vys.
ucheb.zav.;tekh.leg.prom. no.2:90-98 '62. (MIRA 15:5)

1. Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy mashin i apparatov legkoy promyshlennosti.
(Knitting machines)

KUZNETSOV, B.A., kand.tekhn.nauk

Design of the looper system of high-speed warp knitting machines.
Izv.vys.ucheb.zav.; tekhn.prom. 3:105-116 '68. (MIRA 15:6)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy mashin i apparatov legkoy promyshlennosti.
(Knitting machines)

KUZNETSOV, B. A.

Science

Mammalia of Kazakhstan
Moskva, Izd-vo Moskovskogo obshchestva ispytatelei
prirody, 1948

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

KUZNETSOV, B. A.

USSR/Medicine - Literature
Medicine - Zoology

Apr 49

Review of B. A. Kuznetsov's Book, 'The Mammals
of Kazakhstan,' in L. S. Berg, Acad, 1 1/2 pp
'Priroda' No 4

Notes that 226-page book is the result of many
years of field work by the author in Kazakhstan,
and of detailed study of collections in the
Zool Inst, Acad Sci, Leningrad, in Moscow Zool
Mus, and in other local museums. Believes initial
chapters on the history of Kazakhstan mammals are

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USSR/Medicine - Literature (Contd)

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presented in too much detail. Disagrees with
author's analysis of climatic changes in Kazakh
highlands: author states this area became drier,
forest belt shrank, certain tree types vanished,
etc. Nevertheless, book is considered an
outstanding achievement in the faunal geography
of Kazakhstan.

57/49167

KUZNETSOV, B.A.

Ocherk zoogeograficheskogo rayonirovaniya SSSR (Outline of the zoogeographic Districts of the USSR) Pod. red. S. I. Ogneva. Moskva, Izd-vo Moskovskogo Obshchestva Ispytateley Prirody, 1950.

174 p. tables (Materialy k Poznaniyu Fauny i Flory SSSR. Vyp. 20 (XXXV))

So: N/5

729.913

.K9

KUZNETSOV, B. A.

Karakul Sheep

"Karakul; economic and technical information." A. S. Kantsepol'skiy. Reviewed by B. A. Kuznetsov. Kar. i zver., 5, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____ June _____ 1952, Uncl.

KUZNETSOV, B.A.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
KUZNETSOV, B.A.	"Elements of the Study of the Pelt and Fur Raw Materials Trade"	Moscow Pelt and Fur Institute

SO: W-30604, 7 July 1954

KUZNETSOV, B.A.

Materials on mammals of the Lithuanian S.S.R. Biul. MOIP. Otd.
biol. 59 no.4:7-16 J1-Ag '54. (MLRA 7:9)
(Lithuania--Mammals) (Mammals--Lithuania)

~~KUZNETSOV, Boris-Aleksandrovich~~, professor doktor biologicheskikh nauk;
KRIVYAKIN, B.I., redaktor; GOLUBKOVA, L.A., tekhnicheskii redaktor

[Karakul and broadtail (fundamentals of the trade)] Karakul' i
smushka; osnovy tovarovedeniia. Moskva, Izd-vo tekhn. i edon. lit-ry
po voprosam zagotovok, 1955. 302 p. (MLRA 9:12)
(Fur)

KUZNETSOV, Boris Aleksandrovich; OONEV, S.I., red.

[Animals of Kirghizia] Zveri Kirgizii. Pod red. S.I. Obneva.
Moskva, 1958. (MIRA 11:4)
(Kirghizistan--Zoology)

ZUBIN, A.M., kand.biolog.nauk; KUZNETSOV, B.A., prof., doktor biolog. nauk; MGSHKOV, A.N., kand.sel'skokhoz.nauk; PURIM, Ya.A., kand.tekhn.nauk; CHATSKIY, P.I., kand.tekhn.nauk; SERGEYEVA, T.A., kand.tekhn.nauk; BARYKIN, A.M., kand.tekhn.nauk; LOSEVA, N.L., kand.tekhn.nauk [deceased]; RUMYANTSEV, M.Z., starshiy nauchnyy sotrudnik [deceased]; LAPIDUS, L.G., starshiy nauchnyy sotrudnik; FRENKEL', Ye.B., kand.tekhn.nauk; KHMEL'NITSKAYA, Ye.G., mladshiy nauchnyy sotrudnik; KATAYEV, V.P., kand.ekonom.nauk; KLYAGINA, N.I., red.; MARTYNOV, S.F., red.; MINAYEVA, T.M., red.; PLEMYANNIKOV, M.N., red.; KNAKNIN, M.T., tekhn.red.

[Manual on fur and sheep pelt garment manufacture] Spravochnik po mekhovoi i ovchinno-shubnoi promyshlennosti. Vol.2.[Raw materials. Semifinished and final products. Production technology] Syr'se. Polufabrikaty i izdeliia. Tekhnologiya proizvodstva. 1959. 631 p. (MIRA 13:3)

1. Nauchno-issledovatel'skiy institut mekhovoy promyshlennosti (NIIMP) (for Rumyantsev, Lapidus). (Hides and skins) (Fur--Handbooks, manuals, etc.)

KAPLIN, Aleksey Alekseyevich; KUZNETSOV, B.A., prof., red.; YERMACHKOVA,
G.S., red.izd-va; PAVLOVSKIY, A.A., tekhn.red.

[Soviet furs] Pushnina SSSR. Moskva, Vneshtorgizdat, 1960.
457 p. (MIRA 13:5)

(Fur)

KUZNETSOV, B.A., prof.

Reconstruction and enrichment of the fauna of the Soviet Union.
Biol. v shkole no.5:68-76 S-0 '60. (MIRA 13:11)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timi-
ryazeva.

(Wildlife, Conservation of)

KUZNETSOV, B.A., doktor biologicheskikh nauk; FOLOMEYEVA, V.S.,
mladshiy nauchnyy sotrudnik

Commercial properties of processed and dyed pelts of black pure-
bred karakul. Nauch.-issl.trudy NIIMP no.10:11-24 '60
(MIRA 14:4)

(Karakul sheep)

KUZNETSOV, B.A., prof,

Fur farming in our country. Biol. v shkole no.6:66-73 K-D '61.
(MIRA 14:11)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni
K.A. Timiryazeva.
(Fur farming)

KAPLIN, Aleksey Alekseyevich; KUZNETSOV, B.A., prof., red.;
YERMACHKOVA, G.S., red. izd-va; TSAGURIYA, G.M., tekhn.
red.

[Soviet furs] Sovetskaia pushnina, Moskva, Vneshtorgizdat,
1962. 509 p. (MIRA 15:4)
(Fur industry)

KUZNETSOV, B.A., doktor biolog.nauk; FOLOMEYEVA, V.S., mladshiy nauchnyy
sostrudnik

Commercial characteristics of dressed and dyed skins of local karakul
and astrakhan lamb. Nauch.issl.trudy NIIMP no.11:51-70 '62.
(MIRA 16:5)

(Fur--Grading)

KUZNETSOV, Boris Aleksandrovich, doktor biol. nauk, prof.; GAYEVOY,
Yevgeniy Vasil'yevich, kand. sel'khoz. nauk; FEDOSOVA, N.I.,
red.; GOLUBEKOVA, L.A., tekhn. red.

[Leather raw materials; fundamentals of the commercial study
of materials, evaluation of quality, and primary processing]
Kozhevennoe syr'e; osnovy tovarovedeniia, otsenka kachestva
i pervichnaia obrabotka. Moskva, Zagotizdat, 1963. 241 p.
(MIRA 16:9)

(Hides and skins) (Leather industry)

KUZNETSOV, B.A., doktor biolog. nauk, prof.

Fat accumulation in the body of mammals as related to the
ecology of animals. Izv. TSKHA no.6:120-125 '62.

(MIRA 16:6)

(Fat) (Mammals) (Zoology—Ecology)

KUZNETSOV, Boris Aleksandrovich; CHERNOV, Anatoliy Zinov'yevich;
PETROVSKAYA, L.P., red.; GARINA, T.D., tekhn. red.

[Zoology course] Kurs zoologii. Moskva, Gos.izd-vo
"Vysshaya shkola," 1963. 357 p. (MIRA 16:12)
(Zoology)

KUZNETSOV, B.A., prof., doktor biol. nauk, red.; KOZHEVNIKOVA, T.N.,
red.

[Manual on the purchasing of wool, peltry, fur and leather
raw materials] Spravochnik po zakupkam shersti, pushniny,
mekhovogo i kozhevennogo syr'ia. Moskva, 1964. 150 p.
(MIRA 17:6)

KAPLIN, Aleksey Alekseyevich; KUZNETSOV, B.A., red.

[Fur market of capitalist countries; fur production and trade] Pushnoi rynek kapitalisticheskikh stran; proizvodz'vo i trgovlia mekhami. Moskva, Vneshtorgizdat, 1965. 369 p. (MIRA 18:4)

ACCESSION NO: HW/IM AEDC/D/ASP(2)-2

AUTHOR: Kuznetsov, B. A.

TITLE: Concerning the initial stage of plastic deformation of polycrystals

SOURCE: AN SSSR. Doklady*, v. 159, no. 1, 1964, 53-56, and top half of insert facing p. 54

KEY TAGS: polycrystal, plastic deformation, austenitic steel, metallic crystal, grain structure

ABSTRACT: The initial stage of plastic deformation of metallic polycrystals was investigated... plastic coating... described by the author... 1957... samples tested were of that... with grain size 0.2--0.5 mm. The coating was... 0.03--0.07 mm thick. The sample was observed... and the appli-

Card 1/3

L 16390-65

ACCESSION NR: AP4049128

... of the stress produced in the ...
... increased with the stress ...
... will ...
... strain difference and direction could be deter-
... accurate to 5×10^{-4} and 1% ...
... at the ...

ASSOCIATION: None

Card 2/3

NR: AP4 49128

ADMITTED: 07May64

ENCL: 00

SUB CODE: MM,SS

NR REF SOV: 001

OTHER: 000

Card 3/3

KUZNETSOV, B. A., kand. fiz.-matem.nauk; ZIMIN, N.V., inzh.

Quenching of bearing rings in high-frequency induction heating.
Trudy NIITVCH no.1/2:94-100 '60. (MIRA 17:7)

KUZNETSOV, B.A.; TARASOV, V.I.

Determining the rate of unloading of a loader with a rocker-arm
bucket. Fiz.-tekh. probl. razrab. pol. iskop. no.5:106-114 '65.
(MIRA 19:1)

1. Gornyy institut, Dnepropetrovsk.

SHTURMAN, Ya.P.; TSIBROV, M.A.; KUZNETSOV, B.A.

Apparatus for programmed composition. NTI no.12:55-60 '65.
(MIRA 19:1)

L 01288-67 FWT(1)

ACC NR: AT6010476

SOURCE CODE: UR/2694/64/000/138/0130/0135

AUTHOR: Siunov, N. S.; Kuznetsov, B. A.

ORG: none

TITLE: Allowance for skin effect in cast-aluminum squirrel-cage rotors

SOURCE: Sverdlovsk. Ural'skiy politekhnicheskiiy institut, Trudy, no. 138, 1964.
Issledovaniye elektromagnitnykh i elektromekhanicheskikh protsessov mashin
peremennogo toka (Research on electromagnetic and electromechanical processes in
a. c. machines), 130-135

TOPIC TAGS: electric motor, induction motor, skin effect

ABSTRACT: So far, the design of high-starting-torque shaped-conductor deep-slot
induction motors has been based on the formulas for copper conductors. At present,
some Soviet-made motors (up to 100 kw) have cast-aluminum squirrel cages. The
skin effect in aluminum conductors is less pronounced than in copper ones. Hence, a
different slot cross-section shape is needed. The article presents formulas and
curves (plots of starting parameters vs. slot depth, starting-loss-reduction factor vs.
slot depth) for designing high-starting-torque deep-slot induction motors. Orig. art.
has: 3 figures and 24 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003

Card 1/1 mjs

KUZNETSOV, B. A.

Kuznetsov, B. A. "The analytic determination of the productivity of an oscillating conveyor", Izvestiya Dnepropetr. gornogo in-ta im. Artema, Vol. XX, 1943, p. 95-104.

SO: L-4631, 16 Sept. 1953, (Letopis 'Zhurnal 'nykh Statey, no. 24, 1949)

BILICHENKO, N. Ya., dotsent, kand.tekhn.nauk; KUZNETSOV, B.A., dotsent, kand.
tekhn.nauk; SHTORMAN, I.G., doktor tekhn.nauk

Resistance on the deflector drums of belt conveyers and sprocket
scraper conveyers. Vop. rud. transp. no.2:123-127 1957.
(MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Conveying machinery--Testing)

KUZNETSOV, B.A., dotsent, kand.tekhn.nauk; VYSOCHIN, Ye. M., aspirant

Relation between the material conveyed and the performance of
continuous-operation conveyer scales. Vop. rud. transp. no.2:153-
158 1957. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Conveying machinery)
(Scales (Weighing instruments))

RENGEVICH, A.A., dotsent, kand.tekhn.nauk; KUZNETSOV, B.A., dotsent, kand.
tekhn.nauk; BILICHENKO, N. Ya., dotsent, kand.tekhn.nauk; BILAN, I. Ye.,
gornyy inzhener; KLIMOV, V.V., gornyy inzhener.

Mine dynamometer car and its apparatus. Vop. rud. transp.
no.2:183-217 1957. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads—Testing)
(Dynamometer)

KUZNETSOV, B.A.

Readers' response to B.L. Davydov's article "The most advantageous scraper conveyor parameters" (Ugol' no.7, 1955). Ugol' 32 no.4:40-41 Ap '57.

(MLRA 10:5)

1. Dnepropetrovskiy gornyy institut.
(Mining machinery)

Kulikov, V.V.
KULIKOV, V.V., kand. tekhn. nauk; ZELENSKIY, N.M., kand. tekhn. nauk;
KUZNETSOV, B.A., kand. tekhn. nauk.

"Mining engineering" by M.K. Grishin. Reviewed by V.V. Kulikov,
N.M. Zelenskii, B.A. Kuznetsov. Gor. zhur. no.2:78-80 F '58.
(MIRA 11:3)

1. Dnepropetrovskiy gornyy institut.
(Mining engineering)
(Grishin, M.K.)

KUZNETSOV, B.A., dots, kand.tekhn.nauk.

Geometric parameters of wheel contact with rails. Nauch. dokl. vys.
shkoly; gor. delo no.3:226-231 '58. (MIRA 11:9)

1. Predstavlena kafedroy rudnichnogo transporta Dnepropetrovskogo
gornogo instituta im. Artema.
(Mine railroads)

PAMPURA, D.P., kand.tekhn.nauk; KUZNETSOV, B.A., inzh.

Conversion of mechanical characteristics in a mine hoisting induction motor by means of a saturation choke in the stator circuit. Izv. vys.ucheb.zav.; gor.zhur. no.5:64-78 ' 58. (MIRA 12:1)

1. Donetskii industrial'nyy institut.
(Mine hoisting--Electric drive)
(Electric motors, Induction)

KUZNETSOV, B.A.

Geometrical theory for inscribing the figure of a train in curved
mine railroad tracks. Nauch. trudy MGU no. 20:166-182 '58.

(MIRA 11:8)

(Mine railroads)

VASIL'YEV, Nikolay Vasil'yevich, dotsent, kand.tekhn.nauk; POLYAKOV, N.S., prof., retsenzent; SHTOKMAN, I.G., prof., doktor tekhn.nauk, retsenzent; BAKHURIN, K.I., kand.tekhn.nauk, retsenzent; KUZNETSOV, B.A., dotsent, kand.tekhn.nauk, retsenzent; BILICHENKO, N.Ya., dotsent, kand.tekhn.nauk, retsenzent; RENGEVICH, A.A., dotsent, kand.tekhn.nauk, retsenzent; KOZLOVSKIY, S.I., dotsent, kand.tekhn.nauk, retsenzent; YEVNEVICH, A.V., dotsent, kand.tekhn.nauk, otv.red.; GARBER, T.N., red.isd-va; SHKLYAR, S.Ya., tekhn.red.

[Transportation and storage in ore dressing and briquetting plants]
Transport i sklady na obogatitel'nykh i briketnykh fabrikakh.
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po gornomu delu, 1959.
341 p. (MIRA 13:2)

1. Zaveduyushchiy kafedroy rudnichnogo transporta Dnepropetrovskogo gornogo instituta, chlen-korrespondent AN USSR (for Polyakov).
2. Kafedra rudnichnogo transporta Dnepropetrovskogo gornogo instituta (for Shtokman, Bakhurin, Kuznetsov, Bilichenko, Rengevich). 3. Kafedra rudnichnogo transporta Moskovskogo gornogo instituta (for Yevnevich).

(Ore dressing) (Ore handling) (Conveying machinery)

h 62.7 = 1960, E. #

ALEKSANDROV, B.F., inzh.; BALKOV, V.M., inzh.; BARANOVSKIY, P.I., inzh.;
BOGUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent;
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REV, A.Ye., kand.tekhn.nauk; SMAGIN, V.T., inzh.; SNAGOVSKIY,
Ye.S., kand.tekhn.nauk; FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.;
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VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N.,
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SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk;
SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV,
A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I.,
zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.;
MOROZOV, R.N., red.; OZERNOY, M.I., red.; SPIVAKOVSKIY, A.O.,
red.; FAYBISOVICH, I.L., red.; ARKHANGEL'SKIY, A.S., inzh., red.;

(Continued on next card)

ALEKSANDROV, B.F.---(continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GONCHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOPSKIY, I.A., inzh., red.; SVETLICHNYY, P.I., inzh., red.; SALTSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLER, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Ggs.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

KUZNETSOV, B.A., kand.tekhn.nauk

Traction qualities of twin-drum, electric motor stations of a
belt conveyer with an independent drive. Vop. rud. transp.
no.3:93-107 1959. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Conveying machinery)

KUZNETSOV, B.A., kand.tekhn.nauk

Problems in the geometry of coupling and buffer units of mine
rolling stock. Vop. rud. transp. no.3:179-214 1959.

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1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

KUZNETSOV, B.A., kand.tekhn.nauk

Checking the flexure angle of the bearing rope on the swivelling shoes of suspension cableways. Vop. rud. transp. no.3:373-375 1959. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Cableways)

KUZNETSOV, B.A., inzh.

Apparatus for determining the efficiency of reducers. Izv. vys.
ucheb. zav.; gor. zhur. no.3:105-109 '60. (MIRA 14:5)

1. Donetskii industrial'nyy institut Rekomendovana kafedroy gornykh
ppred.

(Electric testing--Equipment and supplies)
(Mining machines--Testing)

KUZNETSOV, B.A., kand.tekhn.nauk

Geometric and kinematic problems in inscribing a train at the cross-over sections of the track. Vop. rud. transp. no.4:231-243 '60.
(MIRA 14:3)

1. Dnepropetrovskiy gornyy institut im. Artema.
(Mine railroads)

KUZNETSOV, B.A., kand.tekhn.nauk; PODOPRIGORA, A.S.; inzh.; BYLYA, A.K., inzh.
KADIURON, F.Ye., inzh.

Research on the interaction of a wheel and a rail. Vop. rud.transp.
no.4:244-270 '60. (MIRA 14:3)

1. Dnepropetrovskiy gornyy institut im. Artema.
(Mine railroads)

KUZNETSOV, B.A., kand.tekhn.nauk; PODOPRIGORA, A.S., inzh; BYLIA, A.K., inzh.
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Research on the process of a wheel slipping onto a rail. Vop. rud.
transp. no.4:270-299 '60. (MIRA 14:3)

1. Dnepropetrovskiy gornyy institut im. Artema.
(Mine railroads)

CUZNETSOV, B.A., kand.tekhn.nauk; POLUYANSKIY, S.A., inzh.

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Vop.rud. transp. no.4:368-378 '60. (MIRA 14:3)

1. Dnepropetrovskiy gornyy institut im. Artema (for Kuznetsov). 2. Institut gornogo dela AN USSR (for Poluyanskiy).
(Ore handling—Equipment and supplies)

PODOPRIGORA, A.S., inzh.; KUZNETSOV, B.A., kand. tekhn. nauk

Determining the reserve stability of cars to derailment. Vop.
rud. transp. no.5:150-155 '61. (MIRA 16:7)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

KUZNETSOV, B.A., kand. tekhn. nauk

Angle of a profile of worn wheels of mine rolling stock.
Vop. rud. transp. no.5:156-163 '61. (MIRA 16:7)

1. Dnepropetrovskiy gornyy institut.
(Car wheels) (Mechanical wear)

KUZNETSOV, B.A., kand. tekhn. nauk; BILAN, I.Ye., inzh.

Resistance to motion of individual cars on curves. Vop. rud.
transp. no.5:164-201 '61. (MIRA 16:7)

1. Dnepropetrovskiy gornyy institut (for Kuznetsov).
2. Institut gornogo dela AN UkrSSR (for Bilan).
(Mine railroads—Curves and turnouts)

KUZNETSOV, B.A., kand. tekhn. nauk

Equation of motion of an ore train. Vop. rud. transp. no. 5:
202-209 '61. (MIRA 16:7)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

POLYAKOV, N.S.; RENGEVICH, A.A., kand.tekhn.nauk; KUZNETSOV, B.A., kand.-
tekhn.nauk; KLIMOV, V.V., inzh.; BILAN, I.Ye., inzh.

Normative data for fulfilling haulage estimates of electric mine
haulage and for designing mine rolling stock. Vop. rud. transp.
no.6:163-180 '62. (MIRA 15:8)

1. Chlen-korrespondent AN UkrSSR (for Polyakov). 2. Dnepropetrovskiy
gornyy institut (for Rengevich, Kuznetsov). 3. Institut chernoy
metallurgii AN UkrSSR (for Klimov, Bilan).
(Mine railroads)

RENGEVICH, A.A., kand.tekhn.nauk; SHAKHTAR', P.S., inzh.; VOLOD'KO, K.P.,
inzh.; YUSHCHENKO, A.I., inzh.; GALUSHKO, M.K., kand.tekhn.nauk;
KUZNETSOV, B.A., kand.tekhn.nauk; KUDEL'YA, G.Ya., inzh.;
MEKHEDA, M.K., inzh.; OKHRIMCHUK, O.Kh., tekhnik

Causes of the breaking of axles of electric mine locomotives.
Vop. rud. transp. no.6:192-203 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut (for Rengevich, Kuznetsov,
Kudelya, Mekheda, Okhrimchuk). 2. Donetskyy nauchno-issledovatel'skiy
ugol'nyy institut (for Shakhtar', Galushko). 3. Aleksandrovskiy
mashinostroitel'nyy zavod (for Volod'ko, Yushchenko).
(Mine railroads) (Axles--Testing)

BILAN, I.Ye., insh.; KUZNETSOV, B.A., kand.tekhn.nauk

Using the modeling method to determine the resistance to movement of individual mine cars on curves. Vop. rud. transp. no.6: 334-342 '62. (MIRA 15:8)

1. Institut chernoy metallurgii AN UkrSSR (for Bilan).
2. Dnepropetrovskiy gornyy institut (for Kuznetsov).
(Mine railroads)

KUZNETSOV, B.A., kand.tekhn.nauk

Stability of cars on entering a curve. Vop. rud. transp. no.6:
360-372 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
(Mine railroad--Cars)

PODOPRIGORA, A.S., inzh.; KUZNETSOV, B.A., kand.tekhn.nauk

Designing inclined tail-rope haulage spurs. Vop. rud. transp.
no.6:372-385 - '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads)

KUZNETSOV, B.A., kand.tekhn.nauk; VARSHAVSKIY, A.M., inzh.

Geometric parameters of trucks for mine haulage equipment in open pits. Vop. rud. transp. no.6:385-409 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
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KUZNETSOV, B.A., doktor tekhn.nauk

Movement of a two-axle electric locomotive around a curve while
pulling. Vop. rud. transp. no.7:172-182 '63. (MIRA 16:9)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads—Curves and turnouts)

KUZNETSOV, B.A., doktor tekhn.nauk

Standards for the radii of curves for two-axle mine rolling stock.
Vop. rud. transp. no.7:254-269 '63. (MIRA 16:9)

1. Dnepropetrovskiy gornyy institut.
(Mine railroads--Curves and turnouts)

POLYAKOV, N.S., doktor tekhn. nauk; KUZNETSOV, B.A., kand. tekhn. nauk;
BILAN, I.Ye., kand. tekhn. nauk

Additional resistance of mine cars resulting from the curvature
of the track. Ugol' 38 no.1:38-39 Ja '63. (MIRA 18:3)

1. Otdeleniye gornorudnykh problem Instituta elektrotekhniki
AN UkrSSR (for Polyakov, Bilan). 2. Dnepropetrovskiy gornyy
institut (for Kuznetsov). 3. Chlen-korrespondent AN UkrSSR
(for Polyakov).

SKUDOV, N.S.; KUZNETSOV, B.A.

Consideration of current displacement in rotors with cast
aluminum cages. Trudy Ural. politekh. inst. no. 138:
130-139 '66
(MIRA 1966)

L 23900-66 EWT(1)/EWA(h)
ACC NRI AP6014963

SOURCE CODE: UR/0302/65/000/001/0043/0045

AUTHOR: Morozov, R. P.; Kuznetsov, B. A.; Krasnikov, Yu. G.

58

ORG: none

B

TITLE: ²⁵Time delay transistor element

SOURCE: Avtomatika i priborostroyeniye, no. 1, 1965, 43-45

TOPIC TAGS: flip flop circuit, silicon diode, automatic control, transistorized circuit

ABSTRACT: Transistorized control systems often require prolonged temporary signal delays, with a time delay element being used for this purpose. The known time delay elements, however, have a number of shortcomings: low temperature stability, impossibility of obtaining prolonged time delays, considerable dependence of time delays on fluctuations of supply voltage. Therefore, the Ukrainian Scientific Research Tube Institute has developed a TIME DELAY element free of these shortcomings. In this element the time delay is determined by an integrating network $R_1 R_2 C$ whose output is connected via a silicon diode to a flip-flop - the output element. Prolonged time delays can be achieved since the capacitor discharge current is not the flip-flop's input current, so that it does not energize the flip-flop; instead, the flip-flop is energized by a special pulsed voltage generator connected to the second plate of the capacitor. Therefore, capacitance C .

Card 1/2

UDC: 621.373.5:621.373.53

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ACC NR: AP6014963

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can be made sufficiently small despite high magnitudes of resistance R_2 . Laboratory and operating trials of the new elements showed that, in the presence of an ambient temperature of 18°C and fluctuations of $\pm 25\%$ in the supply voltage the deviations of time delay did not exceed $\pm(1.0-1.5)\%$; when the temperature rose to 65°C , with supply-voltage fluctuations remaining the same, these deviations reached only $\pm(1.5-2.0)\%$. Currently the new TIME DELAY element is successfully operating in a contactless system for the automatic control of piercing of billets in a continuous tube-rolling installation. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2 BK

KUZNETSOV, B.A., inzh.; MOROZOV, R.P., inzh.; SAVCHENKO, V.N., inzh.

All-purpose source of low voltages. Priborostroenie no. 3:17-19
Mr '65. (MIRA 18:4)

ACCESSION NR: AP4040425

S/0302/64/000/002/0022/0025

AUTHOR: Morozov, R. P.; Kuznetsov, B. A.; Savchenko, V. N.

TITLE: Time-delay element for contactless transistorized control systems

SOURCE: Avtomatika i priborostroyeniye, no. 2, 1964, 22-25

TOPIC TAGS: contactless control system, time delay stability, time delay duration, control system time delay, time delay element

ABSTRACT: Several variants of improved time-delay elements and their basic circuits are described. The first circuit uses a transistorized two-stage amplifier and a diode as the output key. This circuit, together with other contactless logic elements, makes it possible to achieve higher time delays of the control system (as compared with electromechanical relays) without affecting the performance of the system. Because of certain disadvantages a second highly stable time-delay circuit was developed. (see Fig. 1 of the Enclosure). It represents an integrator-amplifier with high amplification using transistors T₂—T₅. Transistor T₁ is a logical NOR circuit. The amplifier

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ACCESSSION NR: AP4040425

(T_3 and T_4) with capacitive negative feedback (capacitor C_1) is the basic element ensuring time delay. According to experiments, a time delay of 7—10 sec can be achieved with the use of this circuit at an ambient temperature in excess of 46C. Voltage-supply fluctuations of $\pm 30\%$ produce an error in time delay not exceeding $\pm 0.3\%$. For the case where there is no requirement of high temperature stability, a third variant of the time-delay circuit has been developed. This circuit produces time delays of 10 sec. In the fourth variant described, temperature increases up to 70C produce a time-delay error not exceeding 5%, while the error caused by voltage fluctuations of $\pm 30\%$ does not exceed 3%. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00

ATD PRESS: 3066

ENCL: 01

SUB CODE: EC, EE

NO REF SOV: 000

OTHER: 000

Card: 2/3

ACCESSION NR: AP4040425

ENCLOSURE: 01

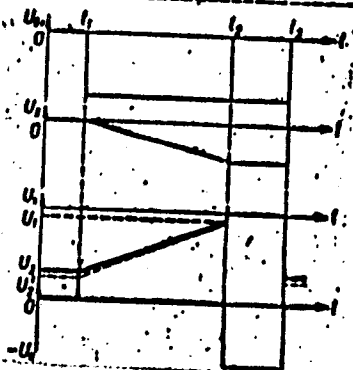
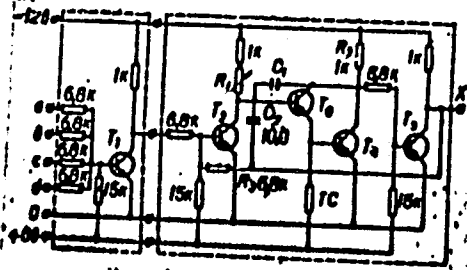


FIG. 1. High-stability time-delay element with integrator-amplifier and voltage diagram

Card

3/3

KUZNETSOV, B. B.; GRYAZNOV, A. I.

Afforestation

Leaders in shelterbelt forestry. Dost. sel'khoz. No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ALEKSEYEV, O.I.; SVISHCHEV, V.A.; KUZNETSOV, B.D.

Experimentation on electro-hydraulic boring. Izv. AN Kazakh. SSR.
Ser. gor. dela no.1:58-68 '59. (MIRA 12:9)

(Boring) (Electricity in mining)

BONDARENKO, I. I.; KUZNETSOV, B. F., et al

"The effect of energy gaps on the spectra of channels in the fission process."

report submitted for Intl Nuclear Data, Sci Working Group Mtg, IAEA, Vienna,
9-13 Nov 64.

IL'IN, B.P.; KUZNETSOV, B.F.

The SSH-12 mounted twelve-row beet planter. Biul.tekh.-ekon.inform.
no.6:51-53 '60. (MIRA 13:8)

(Sugar beets)

(Planters (Agricultural machinery)

KUZNETSOV, B.F.

The 2SPS-6 beet planter with a sprout thinning device. Biul.tekh.-
ekon.inform.Gos.nauch.-issl.inst.nauch. i tekhn.inform. no.4:67-69
'62. (MIRA 15:7)

(Planters (Agricultural machinery))

KUZNETSOV, B.F., inzh.

Sugar beet planter with a device for thinning the sprouts. Trakt.
i selkhoz mash. 32 no.3:34-35 Mr '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokho-
zyaystvennogo mashinostroyeniya.
(Planters (Agricultural machinery)) (Beets, Sugar)

ALEKSANDROV, V.I., inzh.; KUZNETSOV, B.F., inzh.

Types of tractor-mounted vegetable and sugar beet planters. Trakt. i
sel'khoz mash. 32 no, 12:28-30 D '62. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo
mashinostroyeniya.

(Planters (Agricultural machinery)) (Vegetable gardening)
(Sugar beets)