"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.P.

Symptomatology of acute appendicitis in the polar region. Sovet. vrach.aborn. no.16:21-23 Ag '49. (CIML 19:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

YESIPCHUK, P.P.; NOVIKOV, G.P.; GAVRIKOV, V.P.; KALENIK, I.I., red.; PITERMAN, Ye.L., red. izd-va.; BACHURINA, A.M., tekhn. red.

[L-47 single-drum winch for the S-80 tractor; "Lumber industry and forestry" pavilion] Odnobarabannaia lebedka L-47 dlia traktora S-80; pavil'on "Lesnaia promyshlennost' i lesnoe khoziaistvo." [Moskva] M-vo lesnoi promyshl. SSSR [1957] 6 p. (MIRA 11:11)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka.
(Winches)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

PLAKSIN, Yakov Grigor'yevich; FLEKKEL' Arkadiy Il'ich; NIKITENKO, Vasiliy Rodionovich; NOVIKOV, Grigoriy Porfir'yevich; SHTODA, Ivan Ivanovich; MARKOVICH, M.P., kand.tekhn.nauk, dots., retsenzent; GRIGOR, V.I., dots., retsenzent; MITROKHIN, S.[illegible], retsenzent; SLAVIN, D.S., otv.red.; CHERNEGOVA, E.N., red.izd-va; MAKSIMOVA, V.V., tekhn.red.
[Principles of building and mining-engineering structures] Osnovy stroitel'nogo dela i gornoinzhenernye sooruzheniia. Izd.2., dop. i perer. [By] IA.G.Plaksin i dr. Moskva, Gosgortekhizdat, 1963. 463 p. (MIRA 16:12)
(Building) (Mine buildings)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

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 Jl '56. (MLRA 9:10)

(Ball bearings) (Metalworking machinery)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/048/62/026/012/015/016
B117/B102

AUTHORS: Grigor'yev, Ye. P., Novikov, G. S., and Sergeyev, V.O.

TITLE: Genetic relation between the isomeric states of Ho^{160}

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 12, 1962, 1523 - 1524

TEXT: In order to determine the genetic relation between the 28-min Ho^{160} and the 4.7-hr Ho^{160} - i.e. to prove that the decay of the long-lived isomer occurs via a state with the half-life 28 min - γ-spectra of Ho^{160} in the range of 500 - 900 kev were investigated using a γ-scintillation spectrometer. It was shown that in the decay of Er^{160} purified from Ho^{160} the intensity of the 728-kev line increases in a different way from the intensity of the isomeric 60-kev transition and the transitions that occur in the Ho^{160*} isomer decay. Because of a comparative longevity of the Ho^{160} ground state the intensity of the 728-kev line increases after the separation of Er from Ho at first slowly and then rapidly. If the isomers Ho^{160} and Ho^{160*} are in equilibrium, the 728 kev-line can easily be distinguished

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G. S.

Turkmenistan - Trees

Photophily of arborescent varieties in the Turkmen S.S.R. Izv. Turk.fil. AN SSSR No. 1, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

USSR / Forestry. Forest Plants. K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1384

Author : Novikov, G.S.

Inst : Institute of Land Cultivation of the Acad Sci TurkmSSR

Title : On the Problem of Proposed Forest Meliorative Plantings in the Middle Zone of the Amu-Dar'ya

Orig Pub: Tr. In-ta zemledeliya Akad. Nauk TurkmSSR, 1957, 1, 215-257

Abstract: Among the plants investigated are the apricot, white acacia, ailanthus, honey locust, Amu-Dar'ya willow, ash-leafed maple /yasenelistnyy ?/, /karagach/, eastern oleaster, osage orange, several species of tamarisk /tamariks/, Bolle poplar, /turang/, white mulberry, and several others. The

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

USSR / Forestry. Forest Plants. K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1384

as to the dimensions and types of forest belts for biological drainage are also made.

Card 3/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.S.

Flood resistant arboraceous species in Turkmenistan. Izv. AN Turk. SSR. Ser. biol. nauk no.2:85 '61. (MIRA 14:7)

1. Institut pochvovedeniya i osvoyeniya peskov AN Turkmenskoy SSR.

(TURKMENISTAN--WOODY PLANTS)
(PLANTS, EFFECT OF WATER ON)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.S.

Reclamation of sands by the use of plants on banks of the Kara Kum Canal. Izv. AN Turk. SSR. Ser. biol. nauk no.4:3-9 '61.
(MIRA 14:10)

1. Institut pochvovedeniya i osvoyeniya peskov AN Turkmenskoy SSR.
(KARA KUM CANAL REGION--SOIL BINDING)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.S.; KHAKIMOVA, M.

Recent research on the use of plants in binding sands of the narrow strip along the Kara Kum Canal. Izv. AN Turk. SSR. Ser. biol. nauk no.5:26-32 '61. (MIRA 14:12)

1. Institut pochvovedeniya i osvoyeniya peskov AN Turkmenskoy SSR.
(KARA KUM CANAL REGION--AFFORESTATION)
(SAKSAUL)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

BABAYEV, A.G.; NOVIKOV, G.S.

International Conference on the Methods of Research in Afforestation. Izv. AN Turk. SSR. Ser. biol. nauk no.6:98 '61. (MIRA 15:1)

1. Institut pochvovedeniya i osvoyeniya peskov AN Turkmenskoy SSR.
(AFFORESTATION--CONGRESSES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.S.; YAGDYYEV, N.

Repetek Sand Desert Station; on the 50th anniversary of its foundation. Izv. AN Turk. SSR.Ser. biol. nauk no.2:90-92 '62. (MIRA 17:4)

1. Institut pustyn' AN Turkmenskoy SSR.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G. V., kand. med. nauk

Decisions of the 21st Congress of the CPSU and the tasks for communal hygiene. [Trudy] GIDUV no.23:57-61 '60.
(MIRA 15:7)

(COMMUNISM AND SCIENCE) (PUBLIC HEALTH)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.V., kand.med.nauk

Determination of the iodine content of water. Gig. i san. 25 no. 5:62-64 My '60. (MIRA 13:10)

1. Iz Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M. Kirova.
(IODINE) (WATER—ANALYSIS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.V.

Content of macro- and microelements in the drinking water of Leningrad Province. Gig. i san. 28 no.7:96 Jl '63. (MIRA 17:1)

1. Iz kafedry gigiyeny Leningradskogo instituta usovershenstvovaniya vrachey.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.V., otv. za vypusk; KHITROVA, N.A., tekhn.red.

[Engineering instructions (temporary No.270-002) for the operation of automatic brakes with air distributors] Tekhnicheskie ukazaniia po ekspluatatsii avtotormozov s vozdukhoraspredeliteliami, usl. No.270-002. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 29 p. (MIRA 14:7)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Railroads—Brakes)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

L 30229-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6024517 SOURCE CODE: UR/0386/66/004/002/0063/0064

AUTHOR: Gol'danskiy, V. I.; Devisheva, M. N.; Makarov, Ye. F.; Novikov, G. V.; Trukhtanov, V. A.

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Sign of the magnetic field at tin nuclei in a ferrodielectric matrix

SOURCE: Zh eksper i teor fiz. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 2, 1966, 63-64

TOPIC TAGS: tin, ferrite, Mossbauer spectrum, spectral distribution, magnetic moment, line splitting

ABSTRACT: The purpose of the investigation was to determine the sign of the indirectly induced (super-exchange) field at the nuclei of nonmagnetic tin atoms introduced into an yttrium-iron-garnet matrix, previously observed by the authors (Pis'ma ZhETF v. 1, no. 1, 1965; Phys. Lett. v. 15, no. 4, 1965). To this end the authors investigated the Mossbauer spectra of the same garnet sample placed in an external magnetic field. The change in the intesity ratios of the various spectral components, due to application of the magnetic field, is attributed to the change in the character of the angular distribution of the components of the transitions ± 1/2 (4/2) → ± 1/2 (1/2). The distinctly observed increase in the splitting of the Mossbauer spectrum components indicates that the internal magnetic field at the tin nuclei co-

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L 36229-66

ACC NR: AP6024517

incides in direction with the applied electric field, with the magnetic moment of the tetrahedral sublattice parallel and that of the octahedral sublattice antiparallel to the applied field. Since the internal magnetic field at the iron nucleus is always negative relative to the magnetic moment of its ion, it is concluded that the fields of the nuclei, both tin and iron, situated in the same (octahedral) sublattice of the yttrium iron garnet have the same sign. Several explanations of this fact will be discussed in a future article. The authors thank Yu. S. Sherbinin for making possible the operation of the apparatus and Yu. P. Baydorovtsev for supplying the magnet. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 20May66/ ORIG REF: 002/ OTH REF: 002

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

L 1146-66 (A) EWP(c)/EWP(j)/EWP(k)/EWP(d)/EWT(m)/EWP(h)/T/EWP(l)/EWP(v) RM

ACCESSION NR: AP5021997 UR/0286/65/000/014/0075/0075

AUTHOR: Novikov, G. V.; Tikhomirov, A. F.; Satayev, L. S.; Baranov, K. N.

TITLE: A mechanism for sealing the rims of automobile tires. Class 39, No. 172979

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 75

TOPIC TAGS: industrial automation, vulcanization, rubber working machinery

ABSTRACT: This Author's Certificate introduces a mechanism for sealing the rims of automobile tires. Mounted on the shaft of the assembly machine is a drive mechanism for a circular spring with thrust levers. The drive mechanism for the circular spring is made in the form of a ring-type pneumatic cylinder hinged to the thrust levers which carry the circular spring to increase the range of applications of the assembly machine and the operational use between repairs.

ASSOCIATION: none

SUBMITTED: 23Jul58 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

L 1146-66

ACCESSION NR: AP5021997

ENCLOSURE: 01

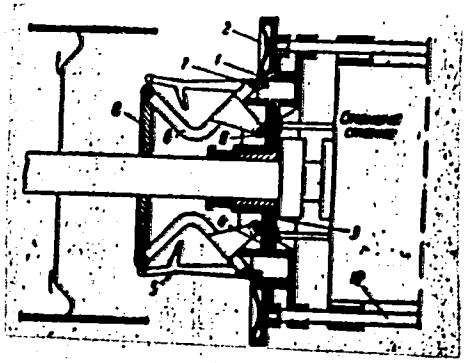

Fig. 1. 1--mold; 2--tire tube; 3--pneumatic cylinder; 4--piston; 5--squeezing lever; 6--thrust lever; 7--axle; 8--spring; 9--roller; 10--rod

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, Georgiy Vasil'yevich; BRAYLOVSKIY, N., red.

[Regulations for the repair and testing of car braking equipment, superseding Regulations TsV-1885 published in 19[illegible]] Pravila remonta i ispytaniia tormoznogo oborudovaniia vagonov; v otmenu Pravil TsV-1885 izdaniia 1957 g. Moskva, Transport, 1965. 163 p. (MIRA 18:[illegible])

1. Russia (1923-U.S.S.R.) Glavnoye upravleniye vagonnogo khozyaystva.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G. Ye.

USSR/Electricity - Network Protection Feb 53

"Circuit for Imitation of 2-Phase Short Circuits in the Testing of High-Frequency Filter Protection," Engrs A. F. Berezovskiy, G. Ye. Novikov

Elek Sta, No 2, pp 60-61

Gives description of and circuit diagrams for imitation of 2-phase short circuits, used by power systems in the lab testing of protective panels PZ-161, PZ-162. A power system conducting series of tests by imitation method,

255T57

uncovered individual defects in protection equipment not observable by other types of tests.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.Ye., inzhener.

Appearance of defects in built-in current transformers. Elek. sta. 25 no.9:53 S '54. (MLRA 7:9)
(Electric transformers)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

AID P - 1396

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 23/30

Author : Novikov, G. Ye., Eng.

Title : Subconnection of a control light indicating the working order of the closing circuit of a contact breaker

Periodical : Elek. Sta., 2, 56, F 1955

Abstract : The author describes a case of faulty functioning of a control light in an automatic reclosing scheme. He indicates on a connection diagram the correct way of connecting the lamp.

Institution: None

Submitted : No date

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.Ye., inzhener.

Using a synchronism control relay with a greater angle of operation. Elek.sta.21 no.12:50 D '56. (MLRA 10:1)
(Electric relays) (Electric power distribution)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.Ye., inzhener.

Characteristics of the automatic reclosing system with protective relay starting. Elek.sta. 27 no.1:54-55 Ja '56. (MLRA 9:6)
(Electric circuits breakers) (Electric relays)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.Ye., inzhener; RYABIKOVA, E.S.

Use of relay protection, automatic control and secondary circuits. Elek.sta. 27 no.7:60-61 Jl '56. (MLRA 9:10)

(Electric engineering)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

BEREZOVSKIY, A.F., inzh.; NOVIKOV, G.Ye., inzh.

Findings on the operation of relay protection and secondary circuits. Elek.sta. 29 no.1:87-89 Ja '58. (MIRA 11:2)
(Electric relays)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, G.Ye., inzh.

Defects of the ard quenching device of the MKP-110M cutout.
Elek. sta. 35 no.12:75-76 D '64.
(MIRA 18:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

KONSTANTINOV, B.A., prof. (Leningrad); BELITSKIY, G.Yu., prof. (Leningrad);
NOVIKOV, G.Ye., inzh. (Yaroslavl'); SHEVAK, I.B., inzh. (Minsk);
KOZLOV, I.V., inzh. (Riga)

Study of the special features of electrical conductivity of the human body. Elektrichestvo no.5:84 My '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

[illegible], I.

Fourteenth National Trade Union Congress of [illegible] of Italy. Metallurg 10 no.8:35-36 Ag '64.

1. Sekretar' TSentral'nogo komiteta professional'[illegible] metallurgicheskoy promyshlennosti.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

85-58-6-12/43

AUTHOR: Novikov, I.

TITLE: The "Pchelka" in the Air ("Pchelka" v vozdukhe)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 6, pp 6-7 (USSR)

ABSTRACT: The author describes the new AN-14 twin-engine passenger plane, the Pchelka (Bee) built at the O. K. Antonov designing office. Intended to resemble a helicopter in its take-off and landing characteristics, but to surpass it in many other functions of domestic communications, the small Pchelka is simple in construction and control. The plane lifts a load of 600 kg; flies 1000 km. without refueling, and has a take-off and landing distance of 50 to 100 m. Flying characteristics are: flight weight 3000 kg.; maximal take-off weight 3200 kg.; take-off and ground run — 60 m.; rate of climb 4.2 m./sec.; rate of climb in flight with 1 engine 1.6 m/sec.; cruising speed 200 km./hr.; landing speed 67 km./hr.; maximal altitude 5000 m.; time required to climb 2000 m. 10 min.; wing spread 19.[illegible] m.; length of plane 10.98 m.; height of plane 4.21 m.; wing area 43.6 m^2. Equipped with two AI-14P 260 hp. engines, designed by A. G. Ivchenko, it is manned by one pilot, though the cockpit can be adapted for dual control for training purposes. Since the

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

85-58-6-12/3

The "Pchelka" in the Air

Pchelka does not require a large landing field, it can land at a workers' settlement or construction site, deliver mail, seeds, perishable foods, fight forest fires, engage in life saving operations, pest control and aerial photography. It is also well adapted for sports, since parachutists can bail out from a rear door. The plane requires a minimum of fuel, about 70 liters of gasoline for an hour's flight. Its production in series is economical. The following personalities participated in designing the Pchelka: V. Anisenko, leading young designer-engineer, the designers N. Pogorelov, A. Albata, Ye. Pil'nik, V. Usenko, N. Gurzhiy, Kh. Bernal'. The plane was tested by pilot V. Izgepa who is shown in one of the three photographs. There is also a drawing showing the interior plan of the Pchelka.

1. Civil aviation--USSR

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A., kand.med.nauk (Moskva)

Effect of dicumarol on the tensile strength of a blood clot. Vrach. delo supplement '57:94-95 (MIRA 11:3)
(COUMARIN) (BLOOD--COAGULATION)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A., kand. med. nauk.

Thrombolytic properties of dicumarin; experimental studies. Sov. med. 22 no.12:16-19 D '58. (MIRA 12:1)

1. Iz klinicheskoy bol'nitsy No. 6 Mosgorzdravotdela (glavnyy vrach I. N. Kurgannikov).
(BISHYDROXYCOUMARIN, eff.
thrombolytic eff. in rabbits (Rus))
(THROMBOSIS, exper.
lytic eff. of bishydroxycoumarin in rabbits (Rus))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Some indices of rabbit blood. Lab. delo 5 no.1:39-41 Ja-F '59.
(MIRA 12:3)

1. Iz klinicheskoy bol'nitsy No.6 (glavnyy vrach I.N. Kurgannikov) Mosgorzdravotdela.

(RABBITS AS LABORATORY ANIMALS)
(BLOOD--COAGULATION)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A., kand.med.nauk

Use of dicumarin in thrombophlebitis and phlebothrombosis. Kaz.med. zhur. 40 no.4:20-26 Jl-Ag '59. (MIRA 13:2)

1. Iz klinicheskoy bol'nitsy No.6 Mosgorzdravotdela (glavvrach - I.N. Kurgannikov).
(COUMARIN) (VEINS--DISEASES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I. A. Cand Chem Sci -- (diss) "Study of the effect of gold compounds upon the photographic properties of haloid-silver photographic emulsions." Kazan', 1959. 10 pp (Min of Higher and Specialized Secondary Education RSFSR. Kazan' order of Labor Red Banner State Univ im V. I. Ul'yanov-Lenin), 150 copies (KL, 46-59, 135)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

236 SOV/79-4-3-[illegible]

AUTHOR: Novikov, I.A.

TITLE: The Effect of Gold Salts on the Latent Image and Fog of Photographic Emulsions

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 3, pp 193-19[illegible] (USSR)

ABSTRACT: The author reports on a number of experiments intended to reveal the effect of a gold salt ($KAu(CNS)_2$) on the fog and latent image of sensitized and non-sensitized emulsions. In a previously published article /reference 1 7, the author pointed to the fact that smaller quantities of gold salts added to the emulsion during the second ripening process intensify the formation of fog. Larger quantities however retard this process. In connection with this, the author tried to determine the effect of gold salt on the already formed phenomena of fog and latent image in emulsions. The first series of experiments was intended to show

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SOV/77-4-3-5/16

The Effect of Gold Salts on the Latent Image and Fog of Photographic Emulsions

the effect of various quantities of the gold salt on fog caused by sulfurous gelatine sensitizers or sodium thiosulfate. After careful stirring, the emulsion-gold salt mixtures were stored for a time at a temperature of 60°C. During this period, samples were taken to test the effect of the gold component on the fog phenomenon. Graph 1 shows the fog density in dependence on the storage period. Lower gold concentrations cause an increase in density, while high concentrations lead to the opposite result. Graph 2 shows the effect of a second dose of gold salt added to the emulsion, when the fog, initially removed by a first strong dose, was in statu renascendi. Graph 3 shows the effect of the gold on the latent image and fog in non-sensitized and sensitized emulsions during less or more prolonged storage. The results of these experiments

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SOV/77-4-3-5/18

The Effect of Gold Salts on the Latent Image and Fog of Photographic Emulsions

show that the character of the change of the latent image strictly differs from the change in the fog, which was obtained with sulfurous sensitizers. Moreover, a marked difference between the properties of the latent images, dependent on the kind of emulsion used, can be noticed. The intensity of the latent image of the sensitized emulsion has a net increase and then remains unchanged. The intensity of the latent image of the non-sensitized emulsion first decreases a little, but very soon a state of stability is obtained. Fog is thus reduced to minimum values under these conditions. A last series of experiments (graph 4) was intended to show, likewise under dependence on storage periods, the effect of gold on "combined" fog, i.e. fog formed on the one hand by exposure of the emulsion to light (density $\simeq 0.5$) and subsequent ripening (higher densities),

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SOV/77-4-3-5/16

The Effect of Gold Salts on the Latent Image and Fog of Photographic Emulsions

and on the other hand by the reverse process. In the first case, the fog passes through a marked maximum value. Then the values decrease and remain finally on the level of the initial density. Fog formed by the inverse process shows sharply increasing values, which only slightly decrease beyond the maximum. In the last section of the article, the author discusses the obtained results. On the basis of the work of the Soviet scientists I.M.Ratner, K.V.Chibisov and V.A.Kargin [reference 8], he concludes that gold does not exercise an effect on a latent image, which was obtained in chemically non-sensitized emulsions, as gold does not replace silver which was formed by light. Fog, which is caused by sulfurous compounds, is removed by gold, as the silver of the nuclei of such fogs is entirely replaced by gold, which in this nuclear form is inactive. Gold intensifies the

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SOV/[illegible]-4-3-5/[illegible]

The Effect of Gold Salts on the Latent Image and For[illegible] of Photographic Emulsions

latent image of emulsions sensitized with sulfurous compounds, because it replaces only part of the silver in the subnuclei of the latent image, i.e. silver formed through sensitization. It is possible that the nuclei increase in size, due to the depositing of gold atoms. In the result, mixed gold-silver nuclei which have a stronger catalytic effect than pure silver nuclei form. The author expresses his gratitude for the help of the Soviet scientist A.V. Borin. There are 10 references, [illegible] of which are Soviet, 2 English and 1 German.

ASSOCIATION: Fabrika kinoplenki, Kazan' (Motion Picture Film Plant, Kazan')

SUBMITTED: October 1[illegible], 195[illegible]

Card 5/5

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Effect of the subcoating and thickness of the emulsion layer on the halation and resolving power of photographic materials. Tekh.kino i telev. 4 no.8:69-70 Ag '60. (MIRA 13:8)

1. Kazanskiy filial nauchno-issledovatel'skogo kinofotoinstituta. (Photographic emulsions)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/077/60/005/003/003/
E073/E335

AUTHORS Novikov, I.A. abd Tsyrlina, B.B.

TITLE. On the Changes in the Photographic Properties and the Resolving Power of Particularly High Disperse Emulsions During the Process of Chemical Maturing

PERIODICAL. Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1960. Vol. 5, No. 3. pp. 216 - 219

TEXT One of the authors has shown in an earlier paper (Ref. 1) that during the process of chemical maturing of some particularly high disperse emulsions the average size (x) of the microcrystals of silver halide increases appreciably. The assumption was expressed that this size-increase influences the photographic and the structural properties of the emulsion layers. The assumption was verified on silver-chloride photo emulsions produced in one case at an ordinary maturing temperature ($\bar{x}$ = 0.052 μ^2) and, in the other case at a reduced maturing temperature ($\bar{x}$ = 0.023 μ^2). After washing, both emulsion specimens were subjected to a second maturing process during which specimens were taken from the emulsion

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

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E073/E555

On the Changes in the Photographic Properties and the Resolving Power of Particularly High Disperse Emulsions During the Process of Chemical Maturing

for determining the light sensitivity (S) the coefficient of contrast (γ) the fog (D_o) the resolving power (R) and x . The values of x were determined from the scattering of the light in the undeveloped emulsion layers (Ref. 2). The results of the experiments are represented in a graph on p. 219 in the form of the curves $x = f(\tau)$ $S = f(\tau)$, $\gamma = f(\tau)$ and $R = f(\tau)$. The curves $D_o = f(\tau)$ are not reproduced since both emulsion specimens were fog free. The obtained results indicate that with increasing duration of the chemical maturing the S of the emulsion increases and γ and R pass through maxima. The latter were more pronounced in the specimen in which the decrease in dispersion was more intensive In ordinary emulsions γ increases with increasing time of the second maturing (Ref. 3). The detected character of the changes of γ is apparently determined by two factors

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S/077/60/005/005/005/00
E073/E335

On the Changes in the Photographic Properties and the Resolving Power of Particularly High Disperse Emulsions During the Process of Chemical Maturing

which counteract each other presence of chemical sensitizing which increases γ and coarsening of the emulsion micro crystals which reduces the contrast (Ref. 3). At the beginning of the maturing process the effect of the first factor manifests itself more strongly whilst during the further process it is the second factor which is more pronounced Under otherwise equal conditions R decreases with increasing $\dot{x}$. However in comparing the obtained curves no direct relation can be detected between these characteristics and on the contrary, a full analogy can be observed between the changes of R and γ. This is not a random conclusion. Numerous observations have shown that a considerable change in the dispersion of the emulsion leads to a relatively small increase or decrease in R (Refs. 4, 5). On the other hand it is known that with increasing γ, R increases appreciably (Ref. 6) It is possible that the observed characteristic of the change in R is explained particularly by the given relation

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/077/60/005/005/005/009
E075/E535

On the Changes in the Photographic Properties and the Resolving Power of Particularly High Disperse Emulsions During the Process of Chemical Maturing

There are 1 figure and 6 references 1 English and 5 Soviet

ASSOCIATION Kazan Filial NIKFI (Kazan Branch of NIKFI)

SUBMITTED July 15 1959

Card 4/4

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Effect of some factors on the halation and resolving power of photographic materials. Zhur.nauch.i prikl.fot.i kin. 5 no.4: 247-254 Jl-Ag '60. (MIRA 13:8)

1. Khimzavod im. Kuybysheva, Kazan'.
(Photographic emulsions)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A., GAFUROVA, N.S.

Studying the effect of sodium thiosulfate on the photographic properties of gold-sensitized emulsions. Uso.nauch.fot. 7:96-102 '60. (MIRA 13:7)

(Photographic emulsions)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Modification of the degree of dispersion of fine-grain emulsions during chemical ripening. Usp.nauch.fot. 7:103-108 '60. (MIRA 13:7)

(Photographic emulsions)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/058/63/000/003/041/104
A062/A101

AUTHORS: Novikov, I. A., Barro, M. I., Gafurova, N. S.

TITLE: Dependence of the resolving power of photographic layers on the content of optical sensitizers in them

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 83, abstract 3D568 ("Tr. Vses. n.-i. kinofotoin-ta", 1962, no. 46, 65 - 75)

TEXT: An investigation was made on the dependence of the resolving power of photolayers of fine and coarse granularity on the content of optical sensitizers in them. It is established that as the concentration of the sensitizers in the photolayers increases, the resolving power, determined behind light filters of the primary colors, passes as a rule through a maximum. In the opinion of the authors, the change of the resolving power under the influence of the sensitizers takes place firstly on account of the sensitivity shift of the layer into that portion of the spectrum in which the light scattering is different from that in the region of the own sensitivity of AgHal, and secondly as a result of their action on the opacity and the contrast coefficient of the layer.

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It is shown that large quantities of sensitizers simultaneously increase the opacity (thereby bringing about an increase of the resolving power) and reduce the contrast (thereby leading to a decrease of the resolving power). The obtained results are submitted to an analysis from the point of view of the competition between these two factors. There are 15 references.

V. Sintsov

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

SOMOV, N.N.; GROSS, L.G.; NOVIKOV, I.A.

Investigating the drying of emulsion layers under vacuum in case of radiation heating. Zhur. nauch. i prikl. fot. i kin. 8 no.3:209-210 My-Je '63. (MIRA 16:6)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo kinofoto-instituta, Kazan'.

(Photographic emulsions--Drying)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

L 34121-66 EWT(1)/T IJP(c)

ACC NR: AR6017255 SOURCE CODE: UR/0058/65/000/012/D086/D086

AUTHOR: Novikov, I. A.; Gafurova, N. S.

TITLE: Sensitization of photographic emulsion with gold in the presence of sodium sulfite

SOURCE: Ref. zh. Fizika, Abs. 12D711

REF SOURCE: Tr. Vses. n.-i. kinofotoin-ta, vyp. 52, 1965, 48-50

TOPIC TAGS: sensitivity increase, photographic emulsion, sodium compound, gold compound

ABSTRACT: The authors investigated the influence of the presence of Na_2SO_3 in AgBr(I) emulsion ($2 \times 10^{-4} - 2 \times 10^{-2}$ mole/kg of emulsion) on its sensitization with gold rhodanide. In the presence of a small amount of the latter (0.75 ml of solution, obtained by pouring together equal volumes of 0.08% $HAuCl_4$ and 2% KCNS per kg of emulsion) an increase in the sulfite concentration increased the fog, and at sufficiently large sulfite concentrations the increment of sensitivity due to the Au-sensitization decreased, until it completely vanished at the largest sulfite concentrations. Introduction of 3 ml of the same rhodanide per kg of emulsion enabled moderate concentrations of sulfite to produce a gain in sensitivity without an increase in fog, but larger concentrations led to the same result as when a smaller amount of rhodanide was introduced. The results show that the published data on the favorable influence of sulfite on Au-sensitization and the explanations offered for this influence are not common to all emulsions. A. Kartuzhanskiy. [Translation of abstract]

SUB CODE: 07/

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

L 46580-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AR6017256 SOURCE CODE: UR/0058/65/000/012/D087/D086

AUTHOR: Novikov, I. A.; Zaripova, N. N.

TITLE: Effect of certain first-maturation factors on the sensitization of photographic emulsions with gold salts

SOURCE: Ref. zh. Fizika, Abs. 12D712

REF SOURCE: Tr. Vses. n.-i. kinofotoin-ta, vyp. 52, 1965, 51-56

TOPIC TAGS: sensitivity increase, photographic emulsion, gold compound

ABSTRACT: In view of the contradictory published data, the authors investigated in detail the relative sensitizing ability, with gold salts, of emulsions having different dimensions of the microcrystals ($x = 0.10 - 0.56\ \mu^2$). To vary x in individual series of experiments, different first-maturation parameters were varied (duration, volume of reacting mixture, temperature). Within the limits of variation of x in this investigation, it was found that the relative sensitizing ability of Au increases with decreasing x, regardless of the manner in which it is attained, although the absolute value of the maximum light sensitivity (S_{max}) is always larger for emulsions with large x, both before and after Au-sensitization; when x is small, an increase takes place also in the amount of gold required to attain S_{max}. The kinetics of the second maturation, and especially the course of S after passing through S_{max}, depends essentially also on the Au concentration. An explanation of the observed laws is examined. A. Kartuzhanskiy. [Translation of abstract]

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Card 1/1

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

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Novikov, Ivan Aleksandrovich.

Organizatsiya Finansov Khozyaystva v sovkhozakh (Financial economic organization in collective farms) Moskva, Sel'khozgiz, 1955.
171 p. tables.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, Ivan Aleksandrovich

[Organization of finances on state farms] Organizatsiia finansovogo khozialstva v sovkhozakh. 2. izd., perer. i dop. Moskva, Gos. izd-vo selkhoz lit-ry, 1957. 218 p. (MIRA 10:11)
(State farms--Finance)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, Ivan Aleksandrovich; MOTOV, S., otv. red.; ZABOROV, Ya., red. izd-va; TELEGINA, T., tekhn. red.

[Financial organization on state farms] Organizatsiia finansov v sovkhozakh. Moskva, Gosfinizdat, 1962. 118 p. (MIRA 16:1)

(State farms—Finance)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, Ivan Aleksandrovich; RYBAKOVA, V.D., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning production and finance on state farms]Planirovanie proizvodstva i finansov v sovkhozakh. Moskva, Ekonomizdat, 1962. 165 p. (MIRA 16:3)

(State farms--Finance)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

ACC NR: AP6034246 (N) SOURCE CODE: UR/0120/66/000/005/0235/0236

AUTHOR: Novikov, I. A.

ORG: none

TITLE: Power drivers for modulated operation of gallium arsenide light emitting diodes

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 235-236

TOPIC TAGS: gallium arsenide, light modulator, power supply

ABSTRACT: Two circuits for driving [illegible] capacitive [illegible] of [illegible] circuit makes [illegible] feedback signal is taken across [illegible] first transistor in the triple. [illegible] negligible effects of the diode [illegible] figures.

SUB CODE: [illegible] SUBM DATE: [illegible] ORIG [illegible]

Card 1/[illegible] UDC [illegible]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

SOV/[illegible]

AUTHORS Bezlyud Ko[illegible] Novikov I a Engineers

TITLE To Step-Up the Drifting of Horizontal Mine Workings (Uskor[illegible] tempy prokhozhdeniya gorizontal'nykh gornykh vyrabotok)

PERIODICAL Mekhanizatsiya [illegible] i tyazhdlykh rabot [illegible], Nr 1 pp 11 14 (USSR)

ABSTRACT This is a detailed description of a new set of highly efficient ore mining machines produced by Giprorudmash, capable of performing 200 to 250 m of horizontal drifting per month. The following machines are mentioned and described a BKM carriage equipped with six drilling machines of the type KS-50 which can be operated simultaneously, high speed percussion drilling machines of the type PRSZM and PRT constructed for drilling with supporting pneumatic props of the type KPP 4 and KPP-[illegible] a loading installation of the type P 1, equipped with a conveyer and driver by two electric motors of the type P2 AO51 4 each of 4 5 kw, 1[illegible]-ton mine cars of the type [illegible] 10 and VOK-10 which are unloaded through hinged side walls. Giprorudmash has developed a circular dumping mechanism of the type [illegible]PE-2 for the unloading of 10 ton mine cars equipped with rotating couplings.

Card 1/2

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SOV/118-[illegible]-1 3/16

To Step-Up the Drifting of Horizontal Mine Workings

two experimental models have been produced by the "Kommunist" Plant and have been in operation since February 195[illegible] in the mine imeni Sergo Ordzhonikidze of the Leninruda Trust. They have proved suitable for use in mines of the Krivorozhskiy basseyn (Krivoy Rog Basin).
There are 4 photographs, 2 sets of diagrams and 4 tables.

1. Mining engineering---USSR 2. Drilling machines---Operation
3. Cargo vehicles---Loading 4. Materials---Handling

Card 2/2

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

We are building our own living quarters for communication workers. Vest. sviazi 17 no.5:25-26 My '57. (MLRA 10:5)

1. Nachal'nik Stanislavskogo oblastnogo upravleniya svyazi.
(Stanislav Province--Housing)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Tongues for the removal and cleaning of spittoons. Gig.i san. no.5:55 My '53. (MLRA 6:5)
(Factory sanitation)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Pneumonia. Med. sestra, Moskva no.6:12-18 June 1953. (CIML 25:1)

1. Doctor. 2. Therapeutic Department of the Central Institute for the Advanced Training of Physicians, Moscow.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

USSR/ General Questions - Methodology. History. Scientific institutions and conferences. Teaching. Problems of bibliography and documentation. A-1

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 10784

Author : Novikov, I. A.

Title : Apparatus for Electrolysis of Aqueous Solution of Common Salt

Orig Pub : Khimiya v shkole, 1956, No 6, 41-42

Abstract : Detailed description and drawings

Card 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

New upset-forging processes at the "Stankonormal'" plant. Kuz.-shtam. proizv. 2 no.5:17-21 My '60. (MIRA 14:3)
(Forging machinery)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/182/61/000/009/004/005
D038/D112

AUTHOR: Novikov, I.A.

TITLE: Diamond treatment of hard alloy upsetting dies

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 9, 1961, 40-43

TEXT: Tests carried out by the Moskovskiy zavod "Stankonormal'" (Moscow "Stankonormal'" Plant) in conjunction with the NIIAlmaz Institute showed that diamond grinding of hard-alloy cold-upsetting dies was less labor-consuming and produced a higher finish than when boron carbide powder was used. Dies reinforced with the powder-metal hard-alloys ВК 6 (VK6), ВК 8 (VK8), ВК 10 (VK10), ВК 15 (VK15) and ВК 20 (VK20) are widely used at this plant. Their durability is 8-10 times higher than that of solid metal dies. The dies are now ground at the plant by 8 x 10 mm АПП (APP)-type diamond wheels with grit sizes of 80, 120, 180, 240 and М 14 (M14) and a diamond concentration of 25, 50, 75, 100 and 150% on a metal binder of 80% copper and 20% tin and an organic (bakelite) binder. A modernized "K. Yung" internal grinder, with a 0.5 kw, 36,000 rpm spindle produced by the zavod "Elektronasos" ("Elektronasos" Plant), is used. NIIAlmaz produced the fol-

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

KAZAKOV, N.F., doktor tekhn. nauk, prof.; NOVIKOV, I.A., inzh.

Diffusion welding of magnetic alloys. Vest. mashinostr. 43 no.10:84-86 O '63. (MIRA 16:11)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.

Fully mechanized and automated cold upsetting of screws and bolts. Kuz.-shtam. proizv. 5 no.11:14-17 N '63. (MIRA 17:1)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.; KOTOV, G.G., doktor ekonom. nauk, red.; DROKHANOVA, Ye.N., red.; YELAGIN, A.S., tekhn. red.

[Knowledge of economics is the basis for able management] Znanie ekonomiki - osnova umelogo khoziaistvovaniia. Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 186 p. (MIRA 15:3)
(Agriculture--Economic aspects)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.A.; BARRO, M.I.; GAFUROVA, N.S.

Effect of the presence of optical sensitizers on the resolving power of photographic emulsions. Trudy NIKFI no.46:65-75 '62.

(MIRA 18:8)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIK, I.B. (Moskva)

Value of a generalized approach to modeling. Izv. AN SSSR. Energ. i transp. no.2:62-64 Mr-Ap '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

L 10716-66 EWT(d)/EWT(1)/EPF(n)-2/EWP(1) LJP(c) BB/GG

ACC NR: AP5028515 SOURCE CODE: UR/0286/65/000/020/0098/0098

AUTHORS: Il'in, V. V.; Vasil'yev, G. I.; Novikov, I. B.; Teveleva, R. P.

ORG: none

TITLE: Analog-digital device for simulating problems of nonstationary heat conduction. Class 42, No. 175750

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 98

TOPIC TAGS: temperature simulation, analog digital converter, heat conduction

ABSTRACT: This Author Certificate presents an analog-digital device for simulating nonstationary heat conduction. The device contains a network of ohmic resistances and a device for setting the boundary conditions. To increase the accuracy of simulation, the device contains a code-to-analog converter for each node, which operate alternately in a storage and a voltage setting mode. There is also one analog-to-code converter common to all the nodes, which is connected sequentially through an electronic switch to the nodes of the network.

Card 1/2 UDC: 681.14.001.572

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ACC NR: AP5028515

Codes proportional to the voltages at these points are supplied to the inputs of the code-to-analog converters operating in the storage mode.

SUB CODE: 09/ SUBM DATE: 18Jul64

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

Experiment in photographing the sky by the simplest means.
Biul.VAGO no.12:34-37 '53. (MLRA 7:3)

1. Moskovskoye otdeleniye VAGO. (Astronomical photography)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, Igor' Dmitriyevich; SHISHKOV, Vitaliy Alekseyevich; DROZHZHIN, Yu.N., redaktor; NIKOLAYEV, B.L., tekhnicheskiy redaktor

[Homemade astronomical devices and instruments] Samodel'nye astronomicheskie pribory i instrumenty. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 54 p. (MLRA 10:6)
(Astronomical instruments)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

KUKARKIN, B.V.; NOVIKOV, I.D.

BD + 62°2332. Per.zvezdy 12 no.5:366-368 N '58. (MIRA 13:9)
(Stars, Variable)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/188/60/000/02/05/006
B020/B054

AUTHOR: Novikov, I. D.

TITLE: On the Pseudotensor of the Energy Momentum of the Gravitational Field

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 3, fizika, astronomiya, 1960, No. 2, pp. 59 - 68

TEXT: The present paper contains the principal results of the author's thesis for diploma defended at the kafedra astrofiziki GAISh (Chair of Astrophysics of the State Astronomical Institute imeni P.K. Shternberg) on May 4, 1959. It is shown in the present paper that in the forms of the pseudotensor suggested (symmetric (I), asymmetric (II) ansatz, and form (III) suggested by C. Møller) the time-, mixed, and spatial components do not possess the physical significance of an energy density, an energy- and momentum flux of the gravitational field since they do not possess the properties necessary for these quantities. The paper does not deal with the problems connected with the integral form of the conservation theorems. It is shown that the forms of the pseudo-

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tensor mentioned are not invariant with respect to time reversal, and do not meet a number of other physical requirements (transformation properties, etc.) and, therefore, cannot be used as equations for the determination of the local energy and momentum distribution of the gravitational field. On the basis of the (asymmetric) form II of the pseudotensor, the following value is indicated, among other things, for the mass M within the sphere of radius r (r is the radial harmonic coordinate, and is larger than the radius of the body generating the gravitational field and even larger than the gravitational radius a):

$$M = (1/2)(2ar^4 + 5a^2r^3 + 3a^3r^2 - a^4r - a^5)/r^3(r - a) \quad (27).$$

On account of the above explanations, the value of the mass, calculated by means of the known forms of the pseudotensor, has hardly a direct physical significance except for the case where $r \not\to \infty$. N. Mitskevich (Ref. 7), A. L. Zel'manov (Ref. 8), D. V. Belov, and A. G. Malov are mentioned. The author thanks A. L. Zel'manov for conducting the investigation and giving valuable advice. There are 1 figure and 12 references: 7 Soviet, 4 German, and 1 British.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

On the Pseudotensor of the Energy Momentum of the Gravitational Field

S/188/60/000/02/05/006
B020/B054

ASSOCIATION: Kafedra astrofiziki (Chair of Astrophysics)

SUBMITTED: January 23, 1960

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

BRONSHTEN, V.A.; NOVIKOV, I.D.

Flight to the stars. Nauka i zhizn' 27 no. 4:58-64 Ap '60. (MIRA 14:5)

1. Chleny soveta Moskovskogo otdeleniya Vsesoyuznogo astronomo-geodezicheskogo obshchestva.
(Space flight)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

Space-time metrics inside the Schwarzschild singular sphere. Astron. zhur. 38 no.3:564-565 My-Je '61. (MIRA 14:6)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga.
(Mechanics, Celestial) (Space and time)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

Properties of the curvature of accompanying space of some cosmological models studied in a quasi-Newtonian approximation. Astron. zhur. 38 no.5:961-968 S-O '61. (MIRA 14:9)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.
(Cosmology) (Cosmic physics)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/722/[illegible]

AUTHOR: Novikov, I.D.

TITLE: Relativist[illegible] effects in interstellar flights.

SOURCE: Trudy Tr[illegible] s'yezda Vsesoyuznogo astronom[illegible] obshchest[illegible] 5-11 Aprelya 1960 g. Mosk[illegible]. Izd[illegible] nauk SSSR, 1962, 147-156.

TEXT: Flights ev[illegible] the nearest stars will requ[illegible] Relativistic effects w[illegible] become clearly apparent. A [illegible] is performed for a v[illegible] from earth to Proxima Centauri [illegible] 250,000 km/sec, and [illegible] regardless whether the clock reading [illegible] clock and the spacest[illegible] based clock are investigated from the po[illegible] the earth observer or from that of the space flier - the spaceship [illegible] to read 4.3 years less than the earth clock after the landing [illegible] the sample calculation back on the earth. The change in the appear[illegible] surrounding universe as seen from a spaceship moving at near [illegible] reviewed. Aberration will apparently transfer the stars toward the [illegible] direction of which the rocket is moving. The stars [illegible] mainly located [illegible] appear more densely grouped and of white color, whereas those [illegible]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

S/168/62/000/006/015/016
B125/B104

AUTHOR: Novikov, I. D.

TITLE: On the behavior of spherically symmetric mass distributions in general relativity theory (II)

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 6, 1962, 66 - 72

TEXT: The concepts of an R-region and a T-region in space-time with a spherically symmetric space are defined. The properties of these regions are discussed. An R-region is defined as that region of the space-time in which the condition $-g_{00}/g_{11} > (\dot{g}_{22}/g'_{22})^2 - (\mu/\mu')$ is fulfilled. (Vestn. Mosk. un-ta, ser. fiziki, astronomii, no. 5, 1962). A system of coordinates with $g_{22} = r^2$ is possible only in such an R-region. In the T-regions defined by $-g_{00}/g_{11} < (\dot{g}_{22}/g'_{22})^2$ coordinate systems with $e^{\mu} = \psi(\tilde{t})$ are possible. e^{μ} depends on t in any system of reference. The boundary between the R and T-regions is given by the equation $-g_{00}/g_{11} = (\dot{g}_{22}/g'_{22})^2$.
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The coordinate spheres of all reference systems expand in T-regions. The existence of R-regions is evident. The possibility of T-regions to exist follows from two statements: (1) the region $0 < \sqrt{2m}\,(r-t)$ in vacuo is a T-region in the Lemaître system of coordinates; (2) a T-region occurs in vacuo when the radius of the contracting sphere is smaller than its radius of gravitation. When matter is distributed and moving in spherically symmetric fashion (with finite and infinite mass) a regular and finite minimum of volume can exist simultaneously throughout the space. The surface of a sphere is assumed to be in a T-region at time t_0. If this surface contracts in t_0, it will go over into a point after a finite interval of its proper time. A more or less sharp boundary of a spherically symmetric metagalaxy can lie only in a T-region. These considerations hold true probably for the last $3.8 \cdot 10^9$ years. The upper limit of their applicability is $\Delta t \sim 7 \cdot 10^9$ years. If these assumptions are valid then the metagalaxy has expanded during about the last $5 \cdot 10^9$ years.

ASSOCIATION: Kafedra astrofiziki (Department of Astrophysics)

SUBMITTED: March 27, 1962

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

Changes in the space and time metric during the transition through singular spheres. Soob.GAISH no.120:42-51 '62.

(Gravitation) (Mathematical physics) (MIRA 15:9)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

Dertian properties of the Einstein equations for spherically symmetrical gravitational fields. Vest. Mosk. un. Ser.3: Fiz., astr. 17 no.5:90-95 S-O '62. (MIRA 15:10)

1. Kafedra astrofiziki Moskovskogo universiteta.
(Gravitation) (Relativity (Physics))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

Evolution of a semiclosed world. Astron.zhur. 40 no.4:772-774 Jl-Ag '63. (MIRA 16:8)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga. (Cosmology)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

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L 13077-63 EWT(1)/BDS AFFTC/ASD Pi-4 IJP(C)

ACCESSION NR: AP3002869 S/0020/63/150/005/1019/1021

61
56

AUTHOR: Novikov, I. D.; Ozernoy, L. M.

TITLE: Light propagation inside and outside the singular Schwarzschild sphere

21

SOURCE: AN SSSR. Doklady*, v. 150, no. 5, 1963, 1019-1021

TOPIC TAGS: light propagation, Schwarzschild sphere, general relativity theory, cosmology, metagalactics, gravitational field

ABSTRACT: The work deals with cosmological applications of the general relativity theory, and in particular, with light propagation in a strong gravitational field of spherical symmetry. The authors are solving the problem of how an observer outside the singular sphere sees the surface of the gravitating ball. Lemaitre's metric is used. The trajectories obtained for the light rays permit the solution of the problem of the appearance of a body if the movement (expansion) of its radiating surface is known. The problem is solved for the special case of parabolic expansion. The results can also be used for the computation of metagalactic or superdense configurations, also in neutrino cosmogony, dealing with the emission of neutrinos during explosions of superdense bodies. "The

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ACCESSION NR: AP3002869

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authors express their deep appreciation to Academician Ya. B. Zel'dovich for the discussion of results, and also to O. P. Komarov and Ye. P. Kalinina for the help with calculations". The paper was presented by Academician Ya. B. Zel'dovich on 16 Jan 1963. Orig. art. has: 2 equations and 1 figure.

ASSOCIATION: Gosudarstvenny*y astronomicheskiy institut im. P. K. Shternberga (State Astronomical Institute); Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 05Jan63 DATE ACQ. 15Jul63 ENCL: 00

SUB CODE: PH, AS NO REF SOV: 003 OTHER: 002

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

NOVIKOV, I.D.

R and T regions in space and time with a spherically symmetrical space. Sovb. GAISH no.134:3-[illegible] '64.

Some properties of a spherically symmetrical space connected with matter. Ibid.:43-[illegible] (MIRA 17:8)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137420019-3

BR

ACCESSION NR: AP4019237 S/0056/64/046/002/0686/0689

AUTHOR: Novikov, I. D.

TITLE: On the possibility of appearance of large scale inhomogeneities in the expanding universe

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 686-689

TOPIC TAGS: cosmogony, expanding world, cosmic inhomogeneities, large scale cosmic inhomogeneity, gravitational instability, proof of instability existence

ABSTRACT: It is shown that arbitrarily small density fluctuations, accompanied by small fluctuations of the metric, can grow in a homogeneous isotropic expanding world and reach at the present time an order of unity, provided they have occurred at a sufficiently early stage of expansion of the universe. This gravitational instability is usually denied on the basis of arguments advanced in a paper by

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ACCESSION NR: AP4019237

Ye. Lifshits (ZhETF v. 16, 587, 1946). It is shown that the maximum spatial dimensions of the fluctuation that might have developed by now amount to about 300 Megaparsec. The proof is obtained by determining the variation of the metric from homogeneous and isotropic and expanding the perturbations in plane waves. Orig. art. has: 3 formulas.

ASSOCIATION: None

SUBMITTED: 13Jul63 DATE ACQ: 27Mar64 ENCL: 00

SUB CODE: PH, AS NO REF SOV: 005 OTHER: 001

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L 16635-65 EWT(1)/EWG(v)/FCC/EEC-4/EEC(t)/EWA(h) Po-4/Pe-5/Pq-4/Pae-2/Peb/
Pi-4 ESD(t)/SSD/SSD(b)/BSD/AFWL/ASD(a)-5/AFMD(t)/AFETR GW/WS
ACCESSION NR: AP4049827 S/0053/64/084/003/0377/0417

AUTHORS: Zel'dovich, Ya. B.; Novikov, I. D.

TITLE: Relativistic Astrophysics, I.

SOURCE: Uspekhi fizicheskikh nauk, v. 84, no. 3, 1964, 377-417

TOPIC TAGS: astrophysics, relativistic gas, relativistic magnetohydrodynamics, cosmic radiation energy, galactic structure, gravitation field, neutron star

ABSTRACT: This is the first of two parts dealing with massive cosmic bodies and systems of bodies which are probably the sources of the tremendous energy stored in the cosmic rays and magnetic field of some of the powerful radio galaxies. These objects include quasars and other objects whose dimensions and luminosities are very high, and which from theoretical considerations should be in a rela-

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ACCESSION NR: AP4049827

tivistic state. The study of the processes occurring during these stages of evolution is started with a review of general information on the equilibrium of a star and its evolution, and with the conditions that bring the star into a relativistic phase. This is followed by an analysis of the properties of a spherically symmetrical gravitational field in vacuum (Schwarzschild field). Objects for which an important role is played by the Einstein gravitation theory are then discussed. The section headings are as follows: 1. Introduction. 2. Equilibrium and stability of star as a whole. 3. Equation of state. 4. Masses of stars in the final stage of evolution. 5. Schwarzschild gravitation field. 6. Gravitational field inside a star. 7. Propagation of light rays inside and outside a static star. 8. Structure of superdense stars. 9. Mass defect. 10. Stability of superdense stars. 11. Solutions with negative gravitational mass defect. 12. Evolution of star. 13. Neutron stars. 14. Evolution of star with mass larger than the "OV" limit. 15. Relativistic collapse. 16. Metastability of any equilibrium

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