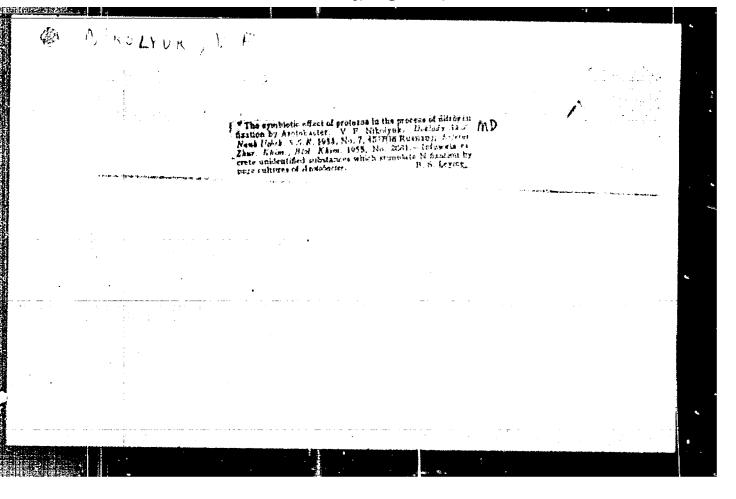
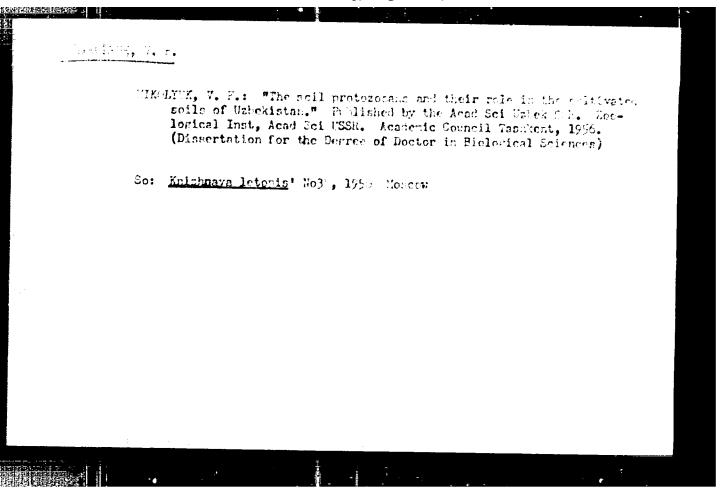
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137





FIROLIUM I.F. TULAGANOY, A.T., otvetstvennyy redaktor; FREYDENENEG, E.D.,
redaktor isdatel*etva; SALIMOYA, D., tekhnicheskiy redaktor

[Soil protozom and their role in the cultivated soils of Uzbekistan]
Fochvennye prozezishie i ikh rol* v kul*turnykh pochvakh Uzbekistana.
Tashkent, Izd-vo Akademii nauk Uzbekakoi SSR, 1956, 184 p. (NIRA 10:3)

(Uzbekistan—Soil micro-organisma)

(Protozom)

Name: NIKOLYUK, Viktor Federovich

Dissertation: Soil protozos and their role in cultured soils

of Uzbekisten

Degree: Doc Biol Sci

Affiliation: Inst of Zoology and Parisitology, Acad Sci Uzbek

SSR

Defense Date, Place: 25 Jan 57, Council of the Zoological Inst Acad

USSE

Certification Date: 18 May 57

Source: RIVO 15/57

45

HIROLYUK, V.F.

Formation and dynamics of the protosoan fauna during the cultivation of virgin lands in the Golodosya Steppe. Usb.biol.shur. no.6:67-74 '58. (MIRA 12:1)

1. Institut scologii i parasitologii AN UZSAR.
(Golodneya Steppe--Frotoscom) (Soil micro-organisme)

MIKOLYUK, V.F.; RYBINA, V.K.

Interrelation of Protosos with various groups of soil bacteria.

Usb.biol.shur. no.663-6 '661.

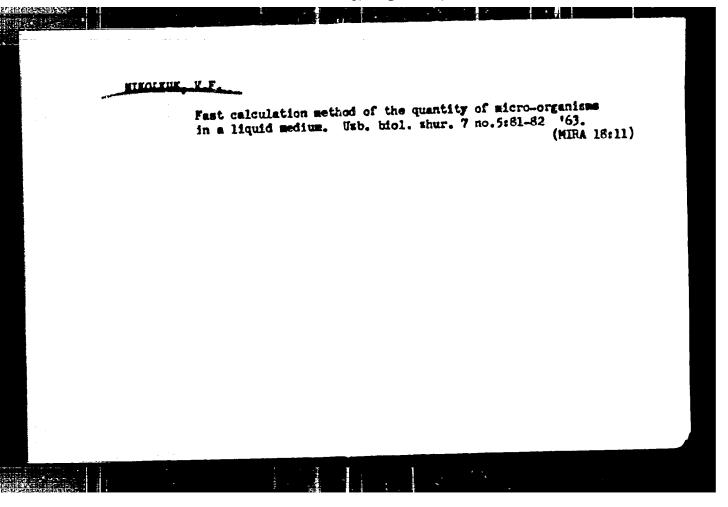
1. Institut botaniki AM USSSR.

(Protosos) (Soil micro-organisms)

NIKOLYUK, V.P.; HAVLYANOVA, H.I.

Importance of presowing treatment of cottonseed with protiste irradiated with game rays of Cottonseed with protiste 17-61 163 (HIRA 17:4)

1. Institut boteniki AW UnSSR.



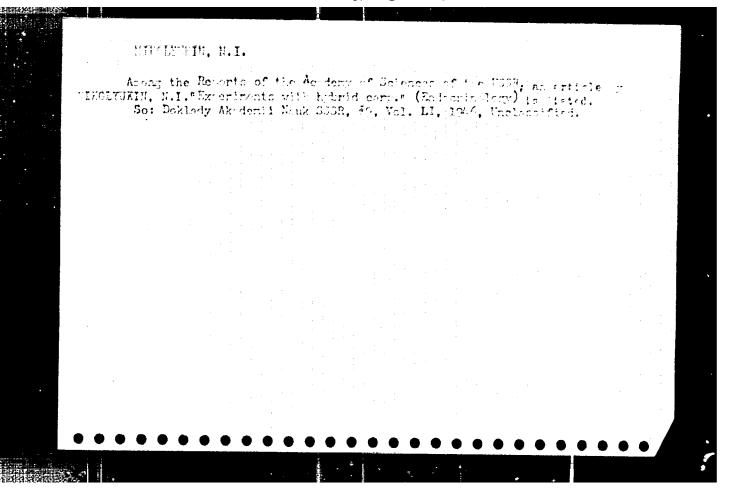
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

MINICIATURIN, N. I.

**Concerning the Pharyngeal Teeth Among the Genus Hybrid of Carp, ** Dok. . R,

50, No. 9, 1941. Hbr., chair Zeology, Pedago ical Inst., Voronezh, -1941-.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.



NIKOLYUKIN, N. I.

"Hybride of Osseous Fish, Their Morphology and Significance for Systematication "Experimental Investigation)," Inst of Evolutional Morphology imeni Academician A. H. Severtsov, Acad Sci USSR.

On Biological Sci Dissertations presented for degrees in science and engineering in Moscov in 1947.

50: Sun. No. 457, 18 Apr 55

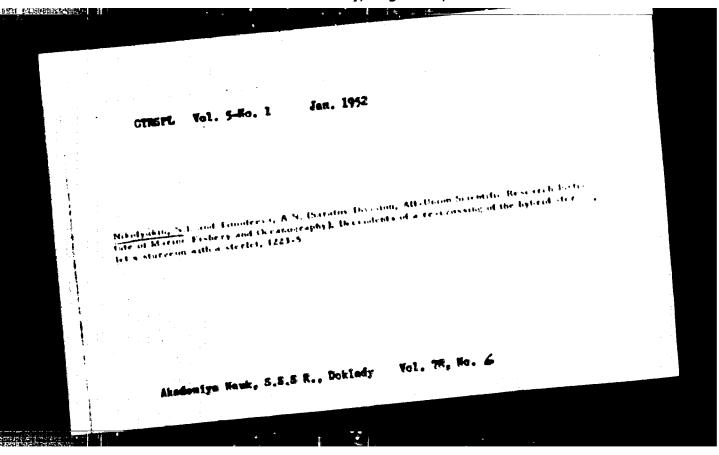
NINCLYCKIN, N.I. Primemenie Metoja Otialennoy Sibridhautia V Rybovodatuc.
Ryb. Khoz-Vo, 1749, No. 8, 5. 27-32

Privol'nev, T.I. Elektronarkoz Ryb. I Ego Tep cl'zovanie V. Ehivorybnom Lele-Sp. 24973

SO: Lutopia' No. 33, 1949

- 1. NIKOLYUKIN, T. I.
- 2. USSR (600)
- L. Science
- 7. Interspecies hybridization of fish. Saratov. Oblastnos isd-vo. 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.



KONSTANTINCY, Y. G.; Hikolyukin, N. J.; Timofeyeva, N. A.

Sturgeons

Biology of sturgeon hybrids. Dokl. AN SSSR 86 No. 2, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

BIKOLYUKIB, B.I.; TIMOFBYBVA, B.A.

Hybridisation of sturgeons with sterlets. Dok1.AH 2008. 93 no.5:899-902 D 153. (NGAA 6:12)

1. Maratevskeye etdeleniye Veccepusnogo nauchae-feeledovatel skogo instituta merekege rybnoge khosyayetva i okoanografii. Predstavleno skudenikom Ye.H.Pavlovskim.

(Sturgeone)

Institution : State Medical Institute, Saratov

THE LUNEAU I. I.

Abstract

Presented by : Academician E. N. Povlovskiy, May 25, 1954

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011372

Thesis on the teeth of yourg hybrides and the basic forms of sturgeon is presented. Nine USSR references (1978-1954). Table; drawings. AUTHOR:

Nikolyukin, N.I., Professor

26-58-2-5/48

TITLE:

Distant Hybridization of Fish (Otdalennara gibridizatsiya ryb)

PERIODICAL:

Priroda, 1958, Nr 2, pp 51-58 (USSR)

ABSTRACT:

The author deals both with interspecific and intraspecific hybridization in fish, of which the latter is the more usual form. The resulting hybrids are usually intermediary between the two parents but mostly tend to favor the characteristics of one or the other. Intraspecific hybrids are usually fertile, but the interspecific ones show a variation from almost complete fertility to complete sterility. Hybrids have two uses: as food fish without further breeding, or as a basis for selective breeding. The USSR is very interested in breeding hybrids from salt-water fish which could exist in fresh-water conditions and would be used to stock the storage-lakes, fishponds and rivers. The question of fertility and early maturing is of importance. In 1949, the Saratovskoye otdeleniye (Saratov Department) of the VNIORKh conducted experiments to try to obtain a hybrid, combining the swift growth of fish such as the sturgeon and beluga with the freshwater properties of the sterlet. They obtained a fish which weighed 400-500 grams after two years' growth and twice that by the end of the

Card 1/3

Distant Hybridization of Fish

26-58-2-5/48

third year. The author mentions several successful hybrids which have been produced: a triple hybrid beluga - sterlet sevruga (Fig. 4 and 5), sterlet - beluga. When the fish are finally released into the ponds and rivers the hybrids breed either among themselves or, as is more usual due to their greater numbers, with one of the parent species, in which case they tend to assume more and more the characteristics of the species. Y.I. Michurin obtained new sorts of fruits and berries by hybridization and created the theory of distant (interspecific) hybridization. N.V. Teitsin has continued his work and has developed valuable wheat-couch-grass hybrids. Academician V.L. Komarov has pointed out the wide spread of hybridization in the plant world. N.A. Timofeyeva collaborated with the author in his hybridization experiments on fish. There are 10 photos, 1 graph, and 9 references, 4 of which are Soviet, 1 Swedish, 1 Dutch, 1 Cerman and 2 English.

Card 2/3

Distant Hybridization of Fish

ASSOCIATION:
Saratovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta ozernogo i rechnogo rybnogo khozyaystva (The Saratov Department of the All-Union Research Institute for Lake and River Pisheries)

Card 3/3

1. Fishes--Breeding--USSR

17(4) SOV/20-125-3-52/63 Mikolyukin, H. I., Shpilevskaya, G. V. AUTHORS: Sterlet and The Back-cross Hybrids Between TITLE: Huso Huso, as Compared to Their Original Forms (Vozvratnyje gibridy sterlyadi i belugi v sravnenii s iskhodnymi formami) Doklady Akademii nauk SSSR, 1959, Vol 125, Kr 3, pp 646-649 PERIODICAL: (USSR) Sterlet and Huso huso do easily cross-breed under experimental ABSTRACT: conditions and produce completely viable intermediate-typehybrids of both reciprocal forms (Ref 4). Since 1952 such hybrids have been bred in the ponds of the Teplovskiy Fish-Breeding Institute (Seretovelaya Chiast). Hitherto progeny neither of any type of sturgeon has been produced in the ponds, nor of sterlet. In 1956 a mature sperm was found in a 4 year old hybrid; in 1957 a progeny small in number was produced by artificial fertilization of the spawn of a Volga Huso huso. Only under the effect of hypophyseal injections the hybrid separated sperm. In 1958 individual males delivered a small amount of thin sperm. After hypophysectomy, it was however, Card 1/3

The Back-cross Hybrids Between Sterlet and Huso Huso, as Compared to Their Original Forms

807/20-125-3-52/63

possible to obtain up to 50 cm at a time from a fish weighing 2.5 kg. Thus it was possible to carry out back-crossbreeding with each of the original types. Thus a series was formed out of 5 types: 1. S-(sterlet); 2. Sterlet x (Huso huso x sterlet) = SHS; 3. Huso huso x sterlet = HS; 4. Huso huso r (Huso huso r sterlet) - HHS, and 5. Huso huso - H. The larvae hatched from them were bred in aquaria with a permanent flow. As expected the types S and SHS remained behind the types H, HS and HHS with respect to the rate of growth. This can be well seen on table 1. The hybrids HS and HHS grow more rapidly than Huso huso which is due to heterosis. The total appearance at the age of 3-5 months of each of the hybrid forms corresponds to the inherited nature of each individual (Fig 2). Hone of the two back-cross hybrids showed an increased variability as a result of a cleavage. The practical importance of the backcross-breeding may be e.g. in the case of a mass settlement in the Stalingrad reservoir where the males (sexual naturity at the age of about 4-5 years) find among the sterlet females more easily partners for reproduction at a time when their own females are not yet sexually mature. The capability of

Card 2/3

The Back-cross Hybrids Between Sterlet and Huso Huso, as Compared to Their Original Forms

80V/20-125-3-52/63

reproduction which in F₁ need not be fully developed, ought to increase in the back-cross hybrid. Reproduction will not only take place between the F₁ males and females but is also to be expected with sterlet. A polymorphic hybrid population thus produced may create in the natural way a new not migratine race of sturgeons. This race will combine the fresh-water-life which is characteristic of sterlet and the rapid growth of Hugo hugo. It is to be expected that the mentioned hybrid will more easily become familiar to fresh-water-life than a pure-bred Hugo hugo as a result of a better adaptability, heterosis and the fact that 1/4 of its blood is sterlet blood. There are 2 figures, 1 table, and 4 Soviet references.

ASSOCIATION:

Saratovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel skogo instituta ozernogo i rechnogo rybnogo khozyaystva (Saratov Department of the All-Union Scientific Research Institute of Lake and River Fishery)

PRESENTED:

December 11, 1958, by I. I. Shmal'gauzen, Academician

SUPMITTED: Card 3/3 December 10, 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011372

MIKOLYUKIN, N.I.

Rearing sturgeons in ponds. Trudy sov. Ikht. kom. no.14:88-91 [62. (MIRA 15:12)

1. Saratovskoje otdelenije Gosudarstvennogo nauchno-issledovatel⁴skogo instituta osernogo i rechnogo rybnogo khosyaystva (GosNIORKH).

(Sturgeons)

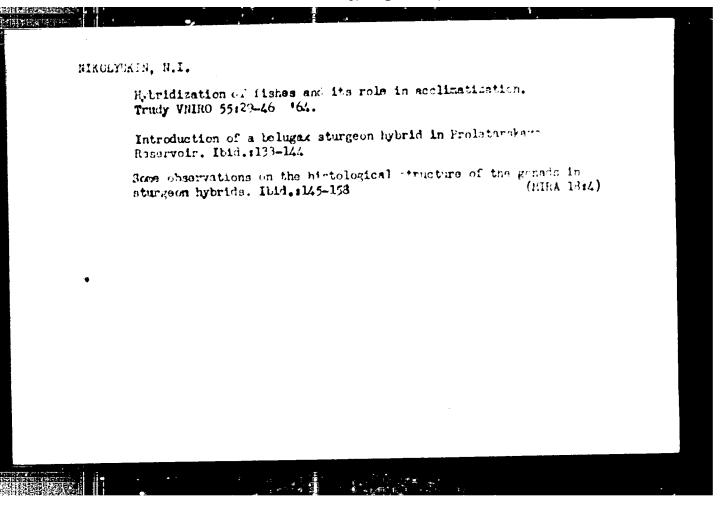
(Pish culture)

ROMARMOV, D.D.; RIRCHNEIN, N.I.; MILIAIRVA, V.K.; TIMOFERVA, K.A.

Resibility of obtaining diploid gynogenesis in sturgeons by rediction. Radiobiologic 3 no.1c104-110 '63. (RIRA 1612)

1. Institut biologicheskoy fiziki AN SSSR, Moskva, i Saratovskoye otdeleniye gosudarstvemnogo nauchno-issledovatel skogo instituta osernogo i rechnogo rybnogo khosywyetva.

(BURYOLOGI—FISHES) (RADIATION—FRISIOLOGICAL MYEST)



NIKOLYUKIN, N.I., doktor biolog. nauk

Hybridization of sturgeons. Priroda 54 no.1:66-70 Ja '65.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel skiy institut morskogo rybnogo khozyaystva i okeanografii, Moskva.

VAYSER, V. Ye.; MIKOLYUKINA, A. V.

Shoe Machinery

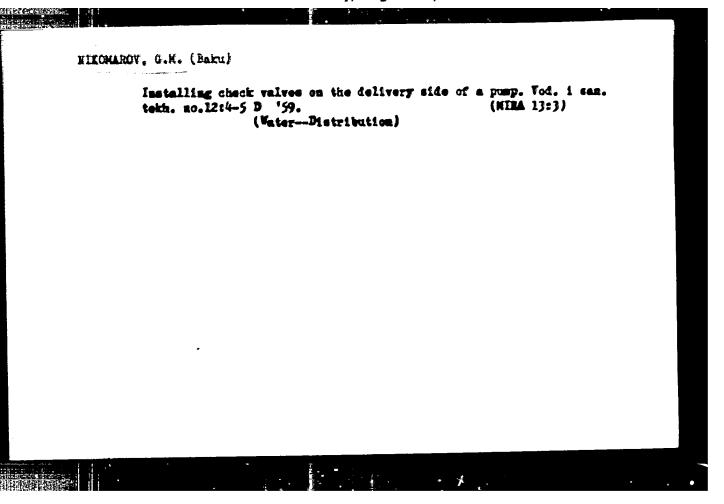
Construction of dust catchers for shoe machinery, Leg. prem., 12, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 19562 Uncl.

MIKOMAROV. G.M.; PUBRIDOROSTSHV, H.K.

Gendined collector of underground waters in the form of a horizontal gallery with artesian wells opening into it. Vod. (MIMA 12:2) i can.tekh. no.3:10-12 Nr '59. (MIMA 12:2)

(Baku-Vater-supply engineering)



HIKOMAROV, Origori Markovich; DUNIN, Ya.h., red.; SHTETHGEL¹, A.S., red.; AKHMEDOV, S., tekhn. red.

[Calculations for underwater pipelines] Raschety podvodnykh trubo-provedev. Baku, Azerneshr, 1961. 164 p. (MIRA 15:6)

(Underwater pipelines)

NIKCMAROV, G.M., insh. EYDLIN, G.A.

Designing underwater pipes whose sections are welded together above water during assembly. Stroi. truboprov. 6 no.4:13-16 Ap *6i. (MIRA 14:6)

1. Institut Giprosmeft*, Baku. (Underwater pipelines--Welding)

NIKOMAROV, G.M.

Method of calculating underwater pipelines whose joints are welded above the water. Stroi.truboprov. 8 no.7:14-16 J1 '63.

(MIRA 17:2)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo instituta vodosnabzheniya, kanalizatsii, gidrotekhicheskikh sooruzheniy i inzhenernoy gidrogeologii Akademii stroitel'stva i arkhitektury SSR, Baku.

"The Fine Arterial Blood Caply of the Fallepian Tubes Under Formal and Pathologic Conditions in Dan (Fravilles Tuberia)

Cand Med Oci, Central Inst for the Mayanced Training of Elysicians, Koscow, 1953. (ACMINIOL, No 2, Sep 54)

Nurvey of Scientific and Technical Dissert tions Defended at USCR Higher Educational Institutions (10)

30: Sum. No. 421, 5 (by 55

NIEGHORIE, O.E., kandidat mediteinskikh nauk
Texemia et pregnancy. Merev'e 2 no.12:18-19 B °56. (NIM 9:12)
(FEMMANGT, COMPLICATIONS OF)

BIKUSCHIK, D.E., kandidat meditsinskikh nauk

Meed supply to the internal female genitalia. Akush. i gim. mc.At
10-19 Jl-Ag 154.

1. In kmfedry akusherutva i gimekolegii (sav. prof. F.A.Syrovatko)
i kmfedry klinicheskoy anatomii i sperativnoy khirurgii (sav. prof.
B.V.Qmev) TuU.

(SELITALIA, FEMALE, block supply,
annt. aspects)

MINONCHIK, O.K., kandidat meditwinskikh nauk (Moskva)

Mureing care in a materalty hospital ward. Mod.sectra me.3:3-7 Mr

155.

(MURA 8:5)

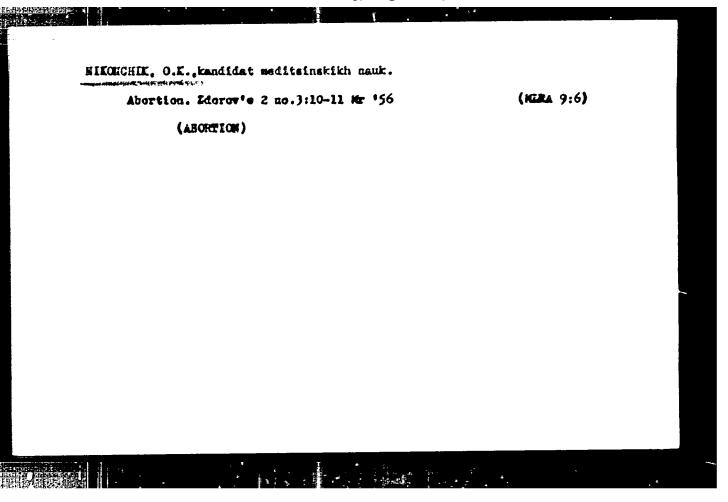
(MURA 8:5)

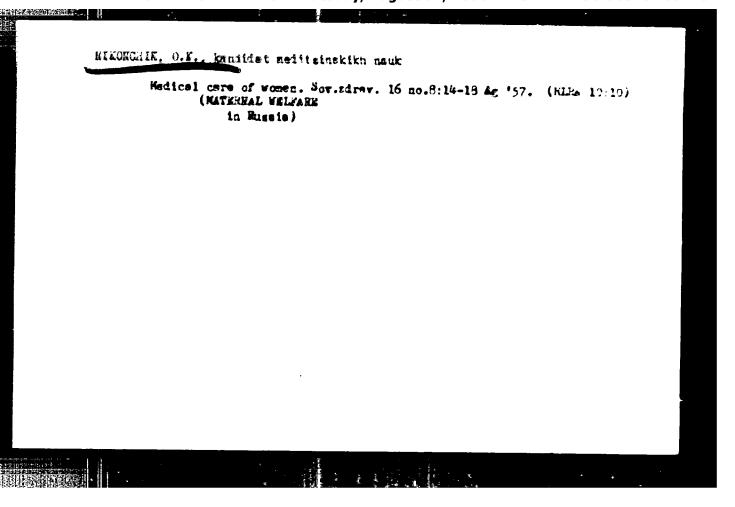
(FURNISHING,

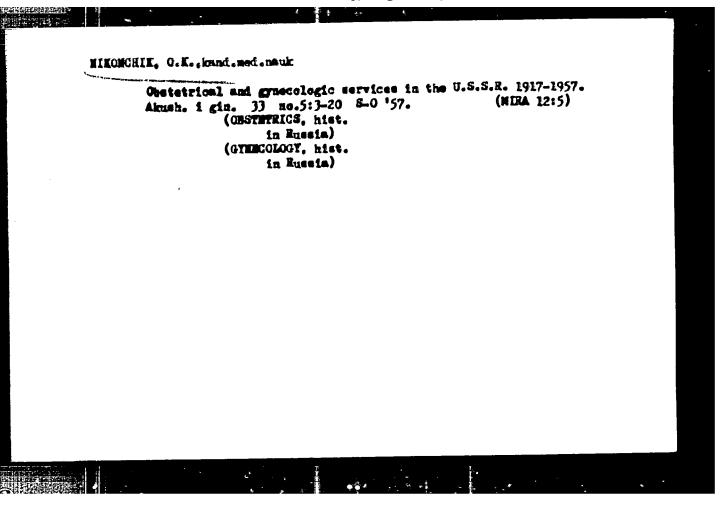
in purerperium in materalty ward)

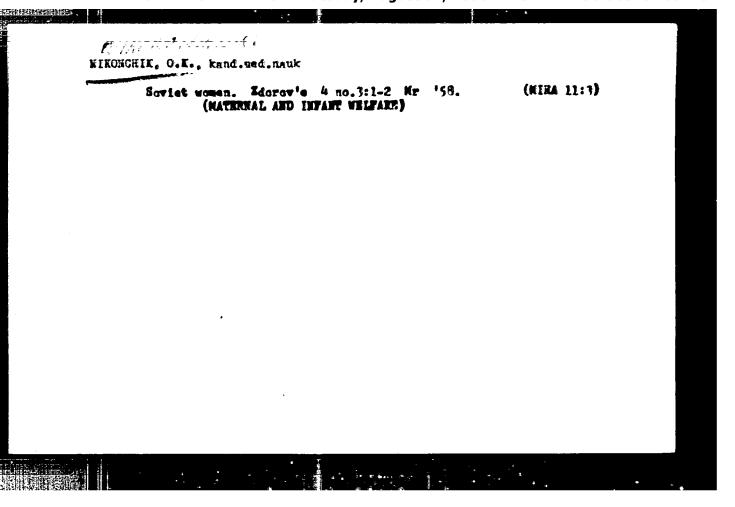
(FURNISHING,

MURA 8:5)









NIKONCHIK, O.K., kand.med.uauk

State concern for wothers in the USSR. Akush. i gin. 34 no.2:3-7
Nr-Ap '58. (NIRA 11:5)

(NATERIAL WELFARE
 in Russia (Rus))

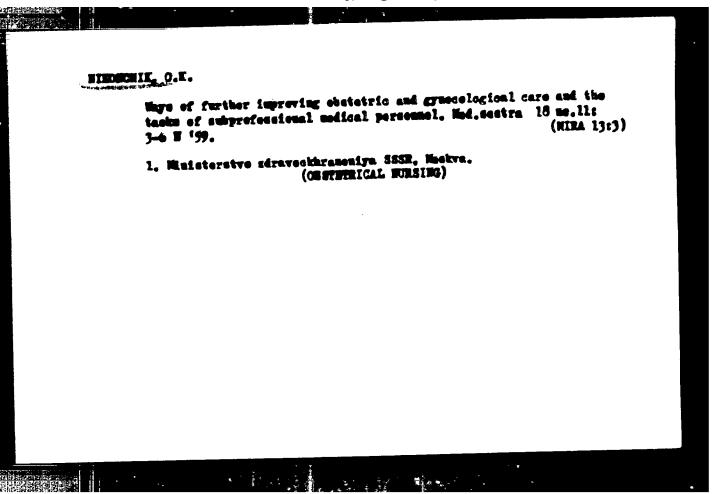
Methods for improvement of obstetrics and gracology in rural areas.
Alcush. 1 gin. 34 no.613-6 H-D '58. (MINA 12:1)

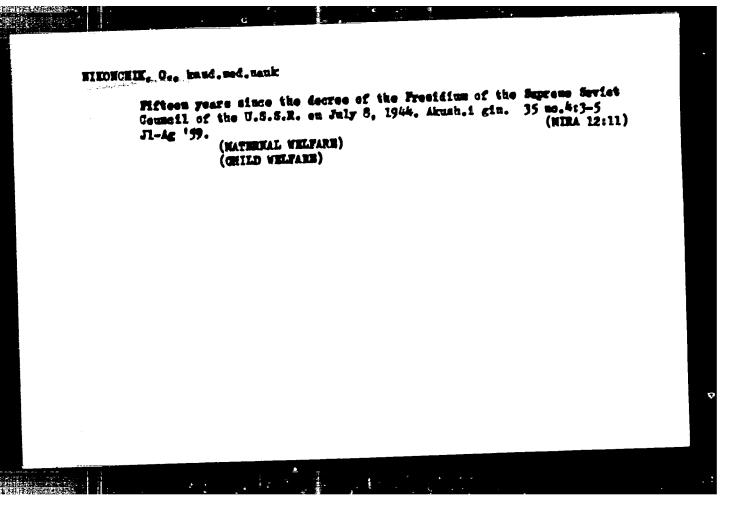
(OSSTRTACE

in Russia in rural areas (Rus))

(OYMECOLOGY

same)





MINOSCHIE, O.K., kand.med.mauk

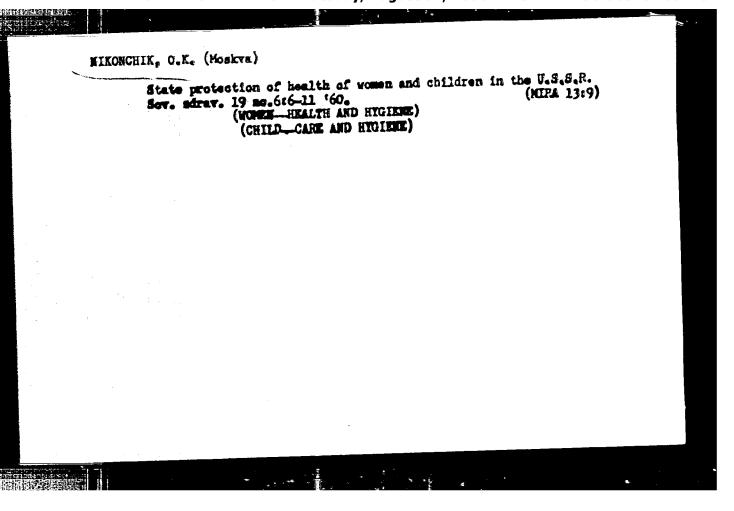
Problem of contraception and the organization of abortion control in the U.S.S.R. Akush.i gin. 35 no.6:3-6 N-D '59. (MIRA 13:4)

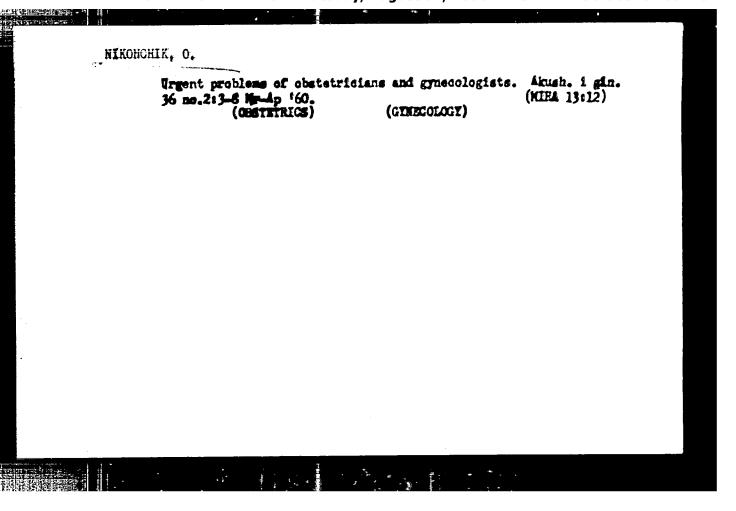
1. Glavnyy spetsialist Upravleniya spetsialisirovannoy meditsinskoy pomoshchiy Ministerstva sdravookhraneniya SSSR. (GONTRACEPTION) (ABORTION)

EIKONCHIK, Ol'ga Komirat'yeyna; RAFAL'KES, S.B., red.; BALDINA, H.F., tekhm.
red.

[Arterial blood supply of the uterus end the adnexa stari] Arterial'—
nee krevesambahesis matki i pridatkov shenshehiny. Moskva, Gos. isd-vo
ned. lit-ry Hedgis, 1960. 56 p.

(UTERUS—BLOOD SUFFLY)





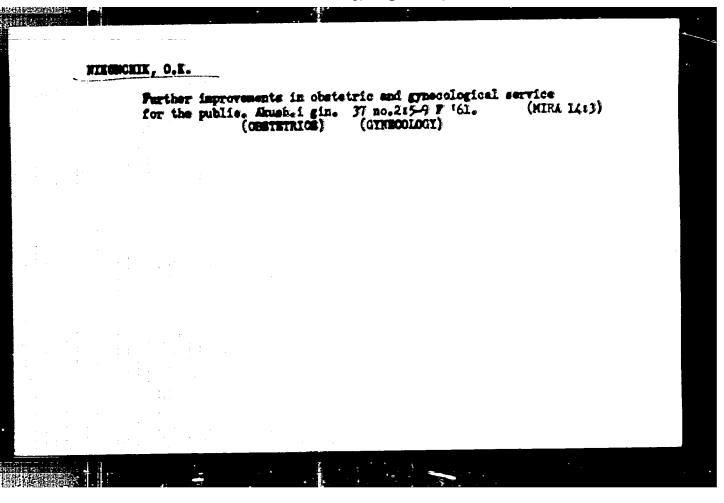
HIKONCHIK. 01'ga Kondrat'yevna; POPOVA, G.F., red.; EUL'DYAYEV, H.A., tekhn. red.

[Abortion and contraceptive substances] Abort i protivozachatochnye sredstva. Isd.2. Hoskva, Kedgiz, 1961. 39 p. (MIRA 14:11) (ABORTION) (CONTRACEPTION)

HOLCHAROVA, G.Ym., kand. med. nauk; HIKONCHIK, O.K., kand. med. nauk; PIRADOVA, H.D., kand. med. nauk; RAFAL'KES, S.B., red.; SEL'CHIKOVA, Yu.S., tekhn. red.

[Transactions of the Tenth All-Union Congress of Obstetricians and Cynecologists, December 11-18, 1957 in Moscow]Trudy Vse-soiuznogo sezda akusherov-ginekologov. Hoskva, 1957. Moskva, Medgiz, 1961. 189 p. (MIRA 15:11)

1. Vsesoyuznyy swyezd akusherov-ginekologov. 10th, Moskva, 1957. (CYNECOLOGY—CONCRESSES) (OBSTETRICS—CONCRESSES)

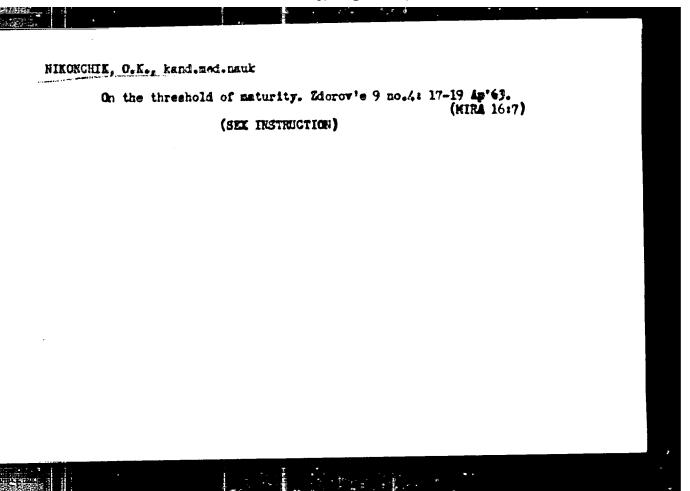


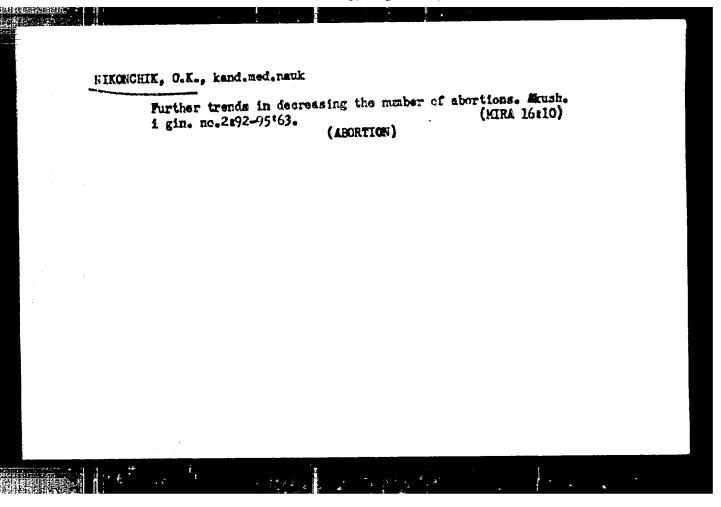
RIEGHCRIK, O.K., hand, med, nauk

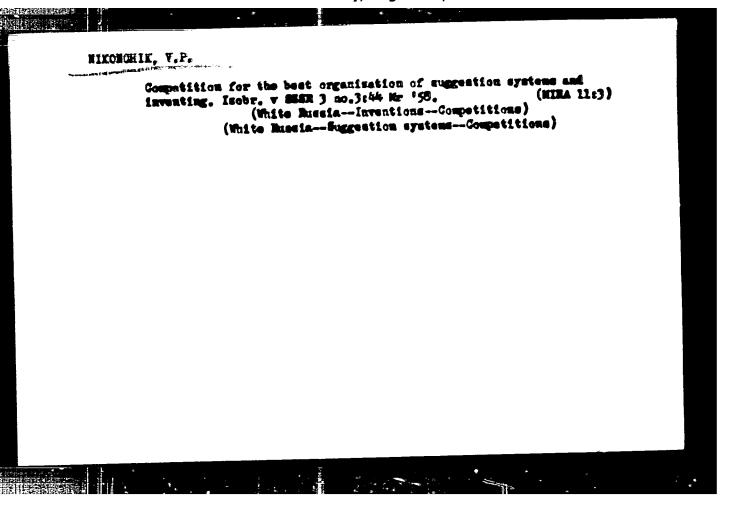
Take care of pourself befor 1% is too late! Zdorov's 8 no.12:
18-20 D '62.

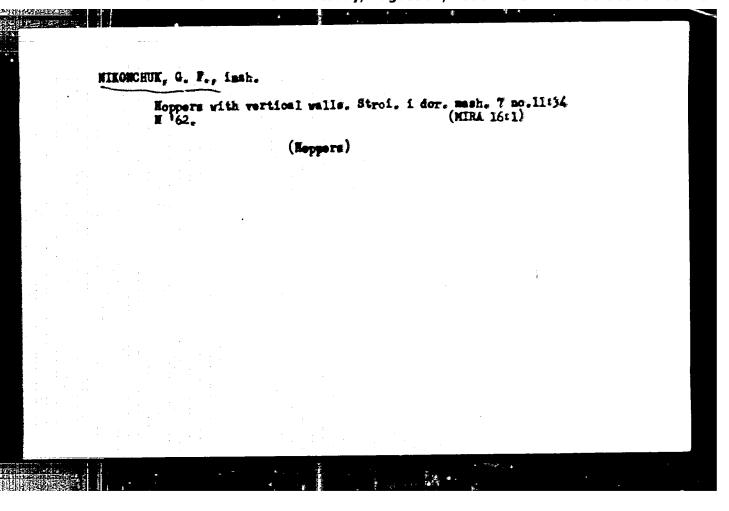
(OUNCEPTION—PREVENTION)

(MIRA 16:1)









NIKONCHUK, V. N., Cand Agr Sci -- (disc) "Seed-bearing larch of the Sukaclov and the European varieties in cultivation." Fryansk, 1957.

19 pp; (Academy of Sciences USSE, Inst of Forests); 100 copies; frice not given; (KL, 17-60, 164)

Country Category

Forestry. Forest Cultures.

ĸ

Abs Jour

RZhB101., No 6, 1959, No 24732

Author

Inst Title Bryansk Forest Economy Institute. Concerning the Seeds' Quality of the Euro-

pean Larch and Sukhachev Larch in the Cultures of Bryanskiy, Emplenskiy and Moskovskiy Sb. aspirantsk. rabot. Bryanskiy lesokhoz.

Oblasts.

Orig Pub

in-t, 1957, No. 1, 29-45

Abstract

Determination of the seeds quality of the European larghes was conducted on plantations of different ages and density, but under analogous conditions of growth. It is stated that the seed; quality of the young larch, just beginning to bear fruit, depends on the surrounding media; trees growing under homoge-

Card

: 1/3

AMERICATOR UN D' TADA! UN SALZS

Author

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011

Orig Pub

Abstract

nous conditions often bear seeds different in quality. Proterogeny may be considered to be the coause for such veriability in the European larch. The reeds quality in various parts of the crown are identical according to height; but seeds, having great weight, are distinguished by excellent germination and energy of growth. Seeds of the European and Sukhachev larches, gathered in dense cul-

Card

2/3

K.

UBSR/Forestry - Forest Crops.

: Ref Zhur - Mol., No 15, 1958, 68037

Grosdov, Beve, Ourov, Felle, Pavlor, V.Ke. A'koncituk, V.M. Author

Bryansk Forest Economy Institute. Inst

: Introducing Some Quick-Growing Tree Species into the Title

Forcets of Bryansk Chinet'.

: Tr. Brynnskogo lesokhor. in-ta, 1957, 6, 55-64. Orig Pub

: Data on investigations of the growth rate of larch crops of different geographic derivations demonstrate that the Abstract

most favorable for conditions in Bryansk, Kaluga, and Smolemsk oblast's are the European larch (of plain derivation), the Polish larch, and Sukachev larch from the southwestern part of its habitat (especially the largeconed variant). The best soil for larches is a leached

chernozon with a loose subsoil; next best are grey,

Card 1/2

- 24 -

NIKONCHUK , V. P.

USER/Forestry - Forest Culture.

Κ.

Abs Jour

: Ref Zhur - Biol., No 21, 1958, 95832

Author

: Hikonchuk, V.H.

List

: Bryunsk Forestry Institute.

Title

: Economical Methods for Increasing the Quality of Larch

Seeds After Their Harvest.

Or Lit Pub

: Tr. Bryanskop lesskinz. in-ta, 1957, 8, 249-253.

Abstract

As a method of increasing the germination of Larix decidum Mill. and L. Sukaczevii Djil. seeds within the lisits of their natural expanse, washin away the barren from the full-grained seeds is recommended, which clininates the necessity for sorting the cones into large and smill. It is necessary to sook forix decidua Mill. seeds for 8 hours and L. Sukaczevii Djil. for 9. The seeds are carefully intermingled according to the length of time

Card 1/2

- 15 -

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011372

PRAVDIN, L.F.; NEERASOV, V.I.; MIKOHCHUK, V.N.; VOTIETSEV, A.H.

Froblems of floating larch. Trudy Inst. less 45:145-165 *58.
(MIRA 11:11)

(Larch)

(Larch)

(Larch)

(Larch)

NITUNENKO, A.S.

USSE/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

E-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3779.

Author : Ye.V. Sinyakov, A.S. Mikonenko. Inst : Dnepropetrovsk University.

Title : Influence of Intensity Magnitude of Alternating Electric

Field on Temperature of Phase Transition in Barium Titanate.

Orig Pub: Mauchn. zap. Dnepropetr. un-t, 1956, 45, 29-33.

Abstract: The temperature dependence of the dielectric permeability & of BafiO₂ at various magnitudes of the intensity E of the alternating electric field applied to the specimen was investigated. A strong electric field (to 7.6 kv per cm) and a high temperature (to 300°) cause a great loosiness of the lattice, which is preserved down to low temperatures. The Curie point shifts to the side of low temperatures depending on E = I(T), if E was increasing. The forward and the reverse courses of £ do not coincide

Card : 1/2

-22-

in the piezoelectric range decreases with the temperature in-

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

Card : 2/2

-23-

SOV/139-58-6-11/29

AUTHOR:

Nikonenko, A.S.

TITIE:

On Decomposition of a Saturated & Solid Solution in

Cold-Deformed Iron-Manganese Alloys (O raspade

peresyshchennogo a .. tverdogo rastvora v

kholodnodeformirovannykh zhelezomargantsevykh splavakh)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika,

1958, Nr 6, pp 73-76 (USSR)

The ABSTRACT:

a solid solution forms in iron-manganese alloys containing up to 3 at.% of manganese. If the alloy is cooled rapidly the a-phase can form at manganese contents up to 13%. This a-phase is then saturated with manganese. The action of residual stresses and subsequent annealing should decompose the saturated solution, forming y-phase. The alloys were prepared from Armco iron and mangarese in a high-frequency induction furnace. The melts were annealed at 1100°C for 8 hours and subsequently cooled at 100 deg/hour. After this annealing the alloys were forged into rods of 8 x 8 x 200 mm dimensions. These rods were then annealed at 1000°C for 3 hours and cooled at the rate of 1000/hour to room temperature. Then the rods were

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APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011372

SOV/139-58-6-11/29

On Decomposition of a Saturated a Solid Solution in Cold-Deformed Iron-Manganese Alloys

cold-deformed in a rolling mill (63% deformation) and samples of 2 x 2 x 15 mm dimensions were cut from the rolled strip. These were machined into cylindrical shape. The alloys contained 3.95, 6.0, 8.39 and 12.75 of manganese. Apart from manganese, each alloy but 0.05% of carbon and no more than 0.1% of other elements. The samples were annealed at temperatures between 200 and 9000C in steps of 1000C and 30 minutes at each temperature. Isothermal annealing of samples was carried out at 530 and 600°C for 1, 3, 5, 10, 20 and 30 minutes. The oxides were removed by polishing and the resultant deformation eliminated by etching in nitric acid. X-ray defraction patterns were obtained on cylindrical samples of 0.6 mm diameter using cobalt emission. A VRS-3 camera with a drum of 143.25 mm diameter was used. The lattice constant of the a phase was determined to within 0.0003to K and to within 0.002 to K in the case of Y-phase The amount of Y-phase in the alloy was determined by the "method of homologous

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On Decomposition of a Saturated & Solid Solution in Cold-Deformed Iron-Manganese Alloys

pairs". Fig 1 shows the lattice constant of the a-phase as a function of the annealing temperature. Up to 300°C the lattice constant of the a-phase is unaffected; further increase of temperature produces a sharp minimum of the lattice constant near 600°C with a subsequent rapid rise until the initial value is reached again at 800-900°C. Fig 2 shows that y-phase appears first at temperatures of 450-4750C. The largest amount of the y-phase was observed at 600-625°C; in samples with 12.2% Mrn the c-phase is almost completely converted into y-phase. The lattice constant of the y-phase (Fig 3) decreases with increase of the annealing temperature. At the moment of appearance of the y-phase its lattice constant is largest with alloys with 12.2% Mn. The amount of the Y-phase in the sample and its lattice constant depend on the duration of the annealing treatment. Fig 4 shows that the Y-phase content increases rapidly during the first minutes of annealing and that subsequently the rise in the amount of the Y-phase slows down. The Y-phase lattice constant

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SOV/139-58-6 11/29

On Decomposition of a Saturated & Solid Solution in Gold-Deformed Iron-Manganese Alloys

(Fig 5) falls rapidly in the first stages of annealing and then decreases more slowly. The results obtained show that at 400-600°C the amount of manganese in the c-phase decreases but annealing at temperatures above 6000C re-established the initial concentration of kin. The changes in the y-phase lattice constant may be explained as follows. Annualing of cold-deformed alleys produces diffusion which leads to separation of components. The y-phase produced on this separation is initially rich in manganese and therefore has a large lattice constant. With increase of the temperature and duration of annealing the amount of the Y phase rises so rapidly that there is not enough time for ranganese to spread evenly throughout the y phase crystallites. With the increase in the amount of the Y-phase the concentration of manganese in it decreases and consequently its lattice constant becomes smaller. After a certain time the rate of formation of the Y-phase slows down and the concentration of manganese in it

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SOV/139-58-6-11/29

On Decomposition of a Saturated a Solid Solution in Cold-Deformed Iron-Manganese Alloys

becomes more uniform and approaches 12%. Annealing at temperatures above 600°C dissolves the y-phase and on cooling the saturated a-phase is produced again. There are 6 figures and 4 Soviet references.

ASSOCIATION: Krivorozhskiy Gornorudnyy Institut (Krivoy Pog Moning Institute)

SUBLITTED: 26th May 1958

Card 5/5

HIEOMERICO, A.S.

Decomposition of the supersaturated -phase in cold worked fromuenganese alloys. Isv.vys.ucheb.ser.; fis. no.6173-76 '59.

(MIRA 12:4)

1. Eriverochakiy gernerudnyy institut.

(Iron-manganese alloys—Testing)

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85135 \$/137/60/000/008/006/009 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 8, p. 250, # 18430

AUTHOR:

Nikonenko, A. S.

TIME:

The Effect of Mechanical and Thermal Treatment on Phase Transformations in Iron-Manganese Alloys

PERIODICAL:

Sb. nauchn. tr. Krivorozhsk. gornorudn. in-t, 1959, No. 7, pp. 317-321

TEXT: An investigation was made with alloys containing 6-12.25 Mn. It was established that cold plastic deformation of Fe-Mn alloys enterls the transformation of E- and f-phases into the c-phase. At a higher degree of deformation the amount of the transformed phase increases. The separation of E- and f-phases takes place during annealing of the deformed alloys. The f-phase is separated out at 450-615 C, and the E-phase begins to separate out at the 615 C annealing temperature. There are 5 references.

Translator's note: This is the full translation of the original Russian abstract, Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011372

SOY/126- - -7-5-11/25

Mikonenko, A. S.

AUTEOE:

TITLE:

On the Factors Influencing the Change in Physical Properties of Ferrite During Annealing Gold Deformed Iron-Manganese Alloys (O faktorakh, vliyayushehikh na ismeneniye fisicheskikh svoystv ferrita pri otshige kholodnodeformirovennykh shelesomergantsevykh splavov)

PERIODICAL: Fisika metallow i metallowedeniye, Vol 7, Kr 5, pp 699-702 (USSE) (GSQ)

ABSTRACT: The aim of the present work was to study the influence of the manganese content and annealing temperature on the softening of binary-manganese alloys, and also the factors influencing the change in physical properties. Iron-manganese alloys were used for the investigation. The chemical composition of the iron and manganese, the conditions of melting and diffusion annealing have been described by Kurilekh (Ref.6). The alloys studied contained 1.14, 2.07, 3.95, 6.0, 8.39 and 10.545 manganese; 0.055 carbon, and not more than 0.1 at 5 of other elements. Cold plastic deformation was The degree of deformation was administered by rolling.

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SOV/126- - -7-5-11/25 On the Factors Influencing the Change in Physical Properties of Ferrite During Annealing Gold Deformed Iron-Manganese Alloys

> calculated from the change in length of the specimen, and was found to be 63%. Specimens, 5 x 4 x 52 mm, were used for measuring hardness and electrical resistance. Besides, small prisms, 1.5 x 1.5 x 10 mm, were made for X-ray analysis: after annealing they were made into cylindrical specimens for taking I-ray pictures. Both series of specimens were annealed simultaneously: for this purpose they were transferred to a heated furnace, held there for 30 minutes at a given temperature, and subsequently slowly cooled. The other two series of specimens were annealed at a higher temperature. In order to remove exide films from the specimen surfaces the latter were ground and then etched until the deformed layer formed due to grinding was The hardness was measured by the Vickers' method. The amperemeter-voltmeter method was used for measuring the electrical resistance (Ref.6). X-ray pictures were taken from cylindrical specimens of 0.6 mm diameter. were exposed to cobalt irradiation in a chamber of 143.25 mm drum diameter. The pictures were read with the microphotometer MF-2 at a magnification of X 21. The secondary distortion was determined from the lines (110) and (220),

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SOV/126- -- 7-5-11/25

On the Factors Influencing the Change in Physical Properties of Ferrite During Annealing Gold Deformed Iron-Manganese Alloys

and the size of mosaic blocks and the tertiary distortions of the crystal lattice from the lines (110) and (510), using Lysak's method (Ref.7). Fig.1 shows a portion of the Fe-En equilibrium diagram with the field in which the y-phase forms on annealing cold deformed alloys super-imposed. In Fig.2 a change in hardness of alloys of different composition in relation to annealing temperature for identical scaking in relation to annealing temperature for identical scaking times (50 minutes) and degree of deformation is shown. Fig.3 shows the change in magnitude of the coherent dissemination ranges (D) and secondary (Sa/a) and

tertiary $(\sqrt{u^2})$ crystal lattice distortions in relation

to annealing temperature for an alloy containing 6% Mm. Fig. 4 shows the dependence of specific electrical resistance on annealing temperature for alloys of different composition. As a result of the above investigations the author has arrived at the following conclusions:

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APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011372

SOV/126- - -7-5-11/25

· On the Factors Influencing the Change in Physical Properties of Ferrite During Annealing Gold Deformed Iron-Manganese Alloys

1. The basic factors influencing the hardening and softening of Fe-Mn alloys are great lattice distortions and very small mosaic block sizes.

2. In the annealing temperature range 450-600°C the V-phase precipitated from the super-saturated x-solution card also exerts an influence on the change in physical properties. There are 4 figures and 9 Soviet references.

ASSOCIATION: Krivoroshskiy gornorulnyy institut metallov (Krivey Rog Institute for the Mining of Metals)

SUBMITTED: February 14, 1958

8/137/61/000/012/131/149 A006/A101

AUTHOR:

Mikonenko, A.S.

TITLE

The effect of structural changes on thermo-emf in iron-manganese and iron-nickel alloys

PERIODICAL:

Referativnyy shurnal. Metallurgiya, no. 12, 1961, 16-17, abstract 121128 ("Sb. nauchn. tr. Krivoroshak. gornorudn. in-t", 1961, no. 10, 367 - 371)

TEXT: An investigation of Fe-Mn and Fe-Mi alloys shows that the alloying of Fe with manganese and nickel entails a reduction of thermo-emf. The thermo-emf depends on the phase composition of the alloy; it decreases sharply at the appearance of the Team E phases. After the deformation of heterogeneous Fe-Mn alloys, the thermo-emf increases. This is connected with the transformation of the E and T phase into the st-phase. The deformation of homogeneous Fe-Mn alloys containing >6% Mn, causes an increase of the thermo-emf; this indicates the non-homogeneous lattice structure of the solid solution. The thermo-electric

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8/137/61/000/012/131/149 A006/A101

The effect of structural changes ...

method can be successfully applied in plants for the production of articles which contain different amounts of Mn or Ni and having a different phase structure as a result of heat treatment.

T. Rumyanteeva

[Abstracter's note: Complete translation]

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S/139/62/000/002/017/028 E073/E535

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Nikonenko, A.S. and Kharitonova, V.F.

TITLE:

AUTHORS:

Investigation by means of the thermoelectric method of some processes that occur during thermomechanical treatment of iron-manganese and iron-nickel alloys

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Fizika,

no.2, 1962, 114-117

TEXT: Experimental results are described of the influence of phase transformations on the thermo e.m.f. of iron-manganese and iron-nickel alloys. The iron-manganese alloys contained 8.4% and 12.2% Mn. respectively, and (in wt.%) 0.05 C. 0.046 S. 0.03 P. 0.03 Si. 0.055 Al. 0.077 Cu. The iron-nickel alloys contained 15.5% Ni and 0.05 wt.% C and not more than 0.1 wt.% of other admixtures. The concentration of manganese and nickel was so chosen that the deformed alloys should consist of saturated α -phase and, after suitable annealing, there should be rejection of the excess γ -phase. The cold plastic deformation was produced by rolling. For annealing, specimens were chosen

Card 1/1 2,

Investigation by means of ...

S/139/62/000/002/017/028 E073/E535

which were deformed by 63%. The annealing was in steps of 50°C up to 900°C, holding the specimens at the given temperature for 30 min. The oxides produced by annealing were ground off and the deformed layer was removed by etching in nitric acid. The therma e.m.f. was measured by a galvanometer whereby the specimens were clamped between two copper electrodes spaced at 40 mm apart. The heat was transmitted to the specimen by means of a small electric furnace. The difference in temperature between the hot and the cold contacts was 15°C and was maintained constant during the measurements. At each annealing temperature the thermo e.m.f. was measured on three specimens, seven measurements being made for each with a measuring error of 0.05 μV . The results are alloys the thermo e.m.f. depends on the chemical composition of plotted in Figs. 1 and 2. the alloy. For single-phase α solid solutions the dependence of the thermo e.m.f. on the concentration of the alloying element was almost linear. The linear dependence ceased as soon as other phases were rejected; for iron-nickel alloys it is the γ -phase, whilst for iron-manganese alloys it is the γ and the E-phases and the rejection of these phases leads to a decrease of Card 2/1-2

Investigation by means of ...

S/139/62/000/002/017/028 E073/E535

the thermo e.m.f. Deformed beterogeneous alloys have a considerably higher thermo e.m.f. whereby the increase proceeds at low degrees of deformation which coincides with the $\gamma \Rightarrow \alpha$ transformation. The authors consider that the change in the thermo e.m.f. as a function of the chemical and phase compositions provides a simple means of quality control. There are 2 figures and 1 table.

ASSOCIATION: Krivorozhskiy gornorudnyy institut

(Krivoy Rog Mining Institute)

SUBMITTED:

April 7, 1961

Fig.1. Legend. Dependence of the thermo e.m.f. on the annealing

temperature of deformed alloys.

Thermo e.m.f., uV/deg. vs. annealing temperature, °C

Curve 1 - 8.4% Mn. 2 - 12.2% Mn. 3 - 15.5% Ni.

Fig. 2. Legend. Influence of the deformation, %, on the thermo

e.m.f., µV/deg, of the iron alloys.

Curve 1 - 8.5% Mn, 2 - 12.2% Mn, 3 - 15.5% Ni.

Card 3/1 3

HIKOHKHKO, A.S., starshiy prepodavatel*; KHARITOMOVA, V.F., assistent

Ghange in the thermoelectric properties during the deformation and roasting of iron-manganese and iron-nickel alloys. Ster. nauch. trud. KGRI no.13:118-122 *62. (MIRA 16:8)

(Iron alloys—Thermoelectric properties)
(Deformations(Machanics))

NIKOMENKO, A.S., starshiy prepodavatel'

Using the thermoelectric method to study iron-base alloys.
Sbor. nauch. trud. KGRI no.13:123-127 '62. (MIRA 16:8)

(Iron alloys—Testing) (Thermoelectricity)

Increasing the durability of the parts of mining machinery. Shorenauch. trud. KGRI no.19:70-73 '62. (MIRA 16:5) (Mining machinery) (Mechanical year)

Change in the operative ferce of solid solutions with an iron base. Shor. nauch. trud. KCRI no.13:114-118 '62.

(Solutions, Solid)

(Solutions, Solid)

5/0137/64/000/005/1007/1008

ACCESSION NR: AR4041598

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SOURCE: Ref. sh. Metallurgiya, Abs. 5148

AUTHOR: Nikonenko, A. S.

TITLE: Recrystallization of solid solutions of iorn-nickel and iron-manganese

CITED SOURCE: Sb. Nauchn. tr. Krivorozhsk. gornorudn. in-t, vy*p. 21,

1963, 217-224

TOPIC TAGS: recrystallization, iron alloy, nickel, manganese, soild solution

TRANSLATION: By roentgenographic and microscopic methods are studied the influence of degree of deformation (9 - 76%) and concentration of alloying element on temperature of recrystallization Tr and magnitude of grain in alloys on a base of Fe with 4% Ni and 2% Mn, with 4 and with 8% Mn. Results of formerly obtained works by author are considered also (Abstract Journal of Metallurgy, 1960, No. 3, 6367; No. 8, 18430; 1963, 6140). It was determined that Tr of single-phase Fe-Ni and Fe-Mn-

Card 1/2

RIFORENKO, A.S.

Effect of deformations in ferritic iron-manganess elloys. Fig. met.
i metallowed. 15 do. 5:776-780 N '63. (NIRA 17:2)

1. Krivoroshskiy gornarudnyy institut UkrSSR.

MIEMIERO, A.S., insh.

Effect of structural changes on the thermoelectroscire force in iron-manganese and iron-mickel alloys. Shore nauch. trud.

KGRI no.10:367-371 163 (MIRA 17:8)

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AP6036342

SOURCE CODE: UR/0148/66/000/010/0115/011d

AUTHOR: Nikonenko, A. S.

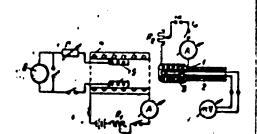
GRG: Krivoy Rog Kining Institute (Krivorozhskiy gornorudnyy institut)

TITLE: Phase transformations in iron-manganese alloys subjected to cold deformation

SOURCE: IVUZ. Chernaya metallurgiya, no. 10, 1966, 115-118

TOPIC TAGS: iron base alloy, manganese containing alloy, phase transition, cold working, cold rolling

ABSTRACT: The author studies phase transformations during heating and cooling of a cold-worked iron alloy containing 8.45 Mn by radiographic and magnetic methods. Cold plastic deformation was done by reduction on a rolling mill. The degree of deformation calculated from the change in the height of the specimen was 63%. X-ray photographs of cylindrical specimens 0.6 mm in diameter were taken in a high-temperature vacuum chamber with a drum diameter of 57.4 mm at temperatures of 293, 870 and 970°K in iron emission. The pressure in the chamber was held constant at



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VDC: 669.15-12:620,183.48

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011372

ACC NR: AP6036342

0.1 N/m2. A special installation was used for measuring the magnetic properties of the alloys-coercive force H_{α} and residual magnetic induction B_{μ} . The experimental setup is shown in the figure. The specimen I in a small evacuated tube made from high-melting glass (for preventing oxidation) was placed in furnace 3 with a doublewound heater made from a nonferromagnetic material. The temperature in the furnace was measured by platinorhodium-platinum thermocouple 2. The temperature did not vary by more than 150. The specimen was magnetized to saturation in the furnace and the furnace containing the specimen was then placed inside degaussing coil & surrounding induction coil 6. When the magnetized specimen is removed from the induction coil, the arrow of galvanometer 6 is deflected to a value proportional to the residual magnetic induction. The coercive force was measured by sending a current through the degaussing coil with a magnitude sufficient to eliminate motion of the galvanometer needle when the specimen was removed from the induction coil. The coercive force was then calculated from the magnitude of the current in the degaussing coil. After measurement of the coercive force, the specimen was demagnetized and heated at a rate of 0.15 deg/sec to a predetermined temperature, held for 30 minutes and remagnetized after which the residual magnetic induction and coercive force were measured again. The same procedure was used for measurements with cooling at a rate of 0.1 deg/sec. The results show a reduction in coercive force with heating to 670°K due to the effect of temperature and reduction in the internal stresses. The cooling curve is located beneath the heating curve. The coercive force of the specimen increases with cooling

Cord 2/3

ACC NR. APG036342

but does not reach the values observed during heating of the deformed specimen. The include in H at temperatures of 670-900°K coincides with the appearance of y-phase in the alloy in a quantity which increases as the temperature is raised. At temperatures of 900-940°K when the y-phase predominates, the coercive force begins to decrease, vanishing when the alloy passes into the y-region. Residual induction shows similar behavior. These results are confirmed by x-ray analysis and indicate a possible partial y-a transformation during cooling which increases the hardness of the alloy. Maximum hardness results when nearly all the y-phase formed during annealing is converted to a-phase under cooling conditions at fairly low temperatures (below 170°K). However, if polymorphic transformation takes place at temperatures above 170°K, the stresses developed are partially relieved and the hardness is reduced. Orig. art. has: 3 figures, 1 table.

SUB CODE:11,15/ SUBM DATE: 15Mar65/ ORIG REF: 003/ OTE REF: 002

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

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SS: Northly list of Specian According, Vol 7, So 4, July 1054.

 1.	NIMERINES, 9. A.
2.	USSR (690)
4.	Cabbage
7.	Cabbage varieties and planting dates, Sad i og., no. 1, 1953.
9.	Monthly List of Russian Accessions, Library of Congress, Kay 1953, Uncl.

- 1. HIKONEKKO, D. A.
- 2. USSR (600)
- 4. Onions
- 7. Rechanical method of sowing onions. Ead 1 og. Ro. 3, 1953.

9. Konthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

NIKONENKO, D.A.: "On the problem of the agrotechnology of white cabbage in the south". Ordshonikidse, 1955. Min Higher Education USSR. North Casetia Agricultural Inst. (Dissertations for the Degree of Candidate of Agricultural Sciences,)

So. Knishnaya letopis*. No. 49, 3 December 1955. Moscow.

ELECTRONICO, Deliviy Andreyevich; MAIROVA, V.S., redaktor; GURSVICH, N.H.,

[Baleing emblage in the South] Enliquety on IUge. Heakva,

Goe. isd-ve selkhes. lit-ry, 1956. 52 p.

(Gabbage)

MINOMERMO, D.A., band. sel'skokhosysystvennykh nauk

Misot ef weather on the growth and yield of late cabbage.

Agrobiologia so. 3:144-146 My-Je '58. (HIRA 11:7)

1. Tessentukskiy ovoshchnoy sortouchatok, Stavropol'skiy kray.

(Cabbage)

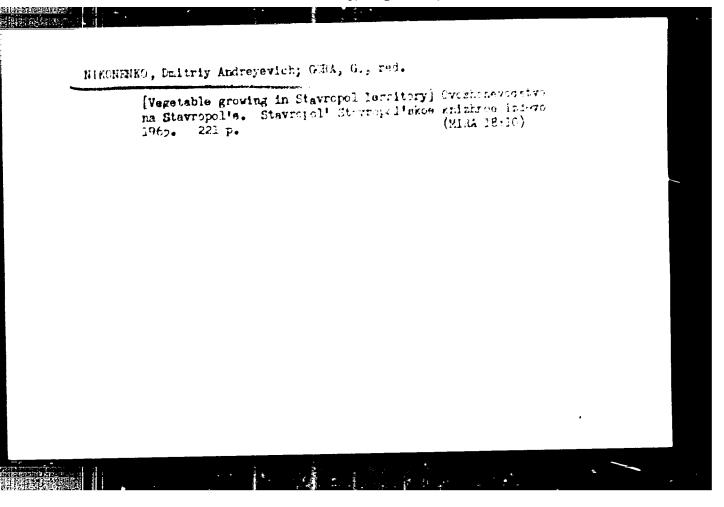
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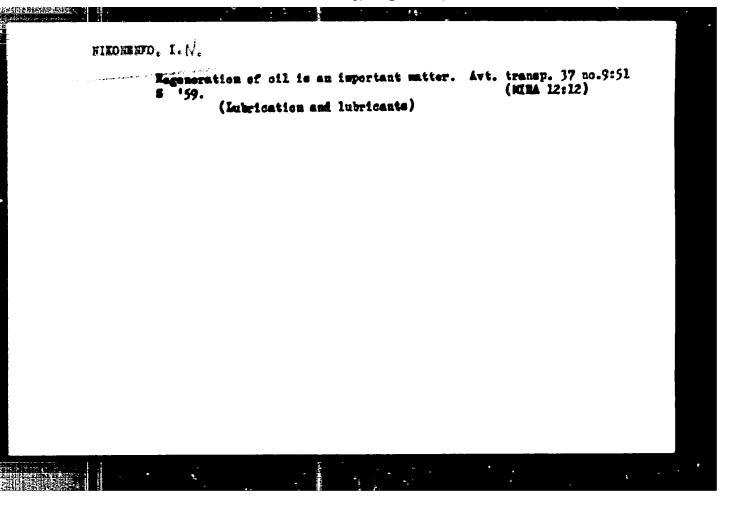
HIKONENKO, D.A.

Continuous yields of cauliflower. Frirods 52 no.7:99-100 \$1 163. (MIRA 16:8)

1. Stavropol'skiy sel'skokhosyaystvennyy institut. (Stavropol Territory--Gauliflower)



. . . . \$1500000 L. II. ZHERHOVKOV, A.S., MIKOMENKO, I.M.; KOLICHEV, A.L., red.; SHRIMKHIN, A.S., red.; KOGAR, F.L., tekhn.red. [Gerage and automobile repairing equipment; a reference catalog] Gerashace i sytoremoutace oberudovanie; katalog-sprayochnik, Sostaviteli A.S. Zhernovkov i I.N. Nikomenko. Fed. obehchei red. A.L. Elycheva. Moskva, Mauchno-tekhniisd-vo avtotransp. 11t-ry. 1957. 191 p. (MDRA 11:3) 1.Bussis (1917-R.S.F.S.R.) Ministerstvo avtomobil'nogo transparts i shosseynykh dorog. 2.Glavnyy inchener freste po rukovodstva savodami po proizvodstvu garashnogo oborudovaniya (for Kolychev) (Automobiles—Service stations)



WIKONEMO, I.P., dote.; BRUSILOYSKIY, I.A. [Brusilove'byi, I.A.], dote.

Surgical treatment of abscesses of the adners uteri. Fed., skush. 1 gim. 20 no.1:35-38 '58. (NIRA 13:1)

1. Akushersknyn i ginekologichesknyn klinikn (ispolnysyushchiy obymrannesti sav. klinikoy - dots. I.P. Nikonenko) Krynskogo meditsinskogo instituta (direktor - dots. S.I. Georgiyevskiy). (UTREUS--ABSCESS)