"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

80703

Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. III. Production of Aldehydes and Ketones From the Products of the Addition of Tertiary Butyl Chloride to Divinyl and Chloroprene

S/079/60/030/05/11/074
B005/B002

acetone in the presence of sodium alcoholate, diene ketones were obtained in the form of pale-yellow oils with a pleasant smell. The infrared spectra of the two ketones (2,2-dimethyl nonadiene-4,6-one(8), and 4-chloro-2,2-dimethyl nonadiene-4,6-one(8)) respectively, are likewise shown in Fig. 2. On the hydrogenation of aldehyde (I) in the presence of colloidal palladium, the main resulting product is 5,5-dimethyl hexanal, which, however, contains an admixture of the corresponding alcohol. Hence, hydrogenation does not proceed selectively under these conditions. Investigations revealed that the telomerization reaction can be applied to the production of a number of unsaturated aldehydes and ketones with a quaternary carbon atom from diene compounds. All the operations are described in great detail in the experimental part of the paper. Yield, boiling point, refractive index, density, and characteristic frequencies of the infrared spectrum are specified for each of the products obtained. The infrared spectra were taken by means of a spectrophotometer of type ИКС-14 (IKS-14), and an apparatus of type ИКС-2 (IKS-2) was used in one

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

S/079/60/030/010/014/030
B001/B066

AUTHORS: Kolyaskina, Z. N. and Petrov, A. A.

TITLE: Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. IV. Reactions of 1-Chloro-5,5-dimethyl Hexene-2 and 1,3-Dichloro-5,5-dimethyl Hexene-2 With Sodium Acetoacetic Acid- and Sodium Malonic Acid Esters

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 10, pp. 3243 - 3247

TEXT: For the purpose of using the adducts of tertiary halogen derivatives on diene compounds in organic synthesis, the authors investigated the reactions of 1-chloro-5,5-dimethyl hexene-2 and 1,3-dichloro-5,5-dimethyl hexene-2 with sodium acetoacetic and sodium malonic acid esters. Following Ref. 2 the authors show that, under ordinary conditions, unsaturated ketones with quaternary carbon atoms at the end of the chain are obtained from both chlorides and sodium acetoacetic ester, according to the Scheme

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Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. IV. Reactions of 1-Chloro-5,5-dimethyl Hexene-2 and 1,3-Dichloro-5,5-dimethyl Hexene-2 With Sodium Acetoacetic Acid- and Sodium Malonic Acid Esters

S/079/60/030/010/014/030
B001/B066

$(CH_3)_3CCH_2CX{=}CHCH_2Cl \longrightarrow (CH_3)_3CCH_2CX{=}CHCH_2CH_2COCH_3$

(I) X = H, (II) X = Cl. These ketones are colorless oils, insoluble in water, of pleasant odor, readily forming crystalline products with hydrazine derivatives. Two frequencies in the infrared spectrum of the ketones indicate the presence of a double bond, and in the spectrum of the ketone (I) there is one frequency to be assigned to the group -CH=CH-(trans). The frequencies of a vinyl group are missing. On condensation of the same chlorides with sodium malonic ester, the corresponding alkenyl malonic acid esters result, but with lower yields (Scheme 2). Like in the reaction with sodium acetoacetic ester, that with sodium malonic ester takes place without allyl rearrangement. In the infrared spectra of the esters (III) and (V), as well as of the acids (IV) and (VI), the characteristic deformation frequencies of the vinyl group are absent (Fig.2). The spectra of the ester (III) and of the acid (IV) show sufficiently intense frequencies of the group -CH=CH-. Their semicarbazones were synthesized in crystalline form as

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. IV. Reactions of 1-Chloro-5,5-dimethyl Hexene-2 and 1,3-Dichloro-5,5-dimethyl Hexene-2 With Sodium Acetoacetic Acid- and Sodium Malonic Acid Esters

S/079/60/030/010/014/030
B001/BC66

derivatives of the resultant ketones, and their amides as derivatives of the resultant acids. There are 2 figures and 4 Soviet references.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: October 25, 1959

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

EWT(m)/EPF(c)/EWP(j)/T/EWA(c ... JW/RM

AP5011188 ... 001/004/0643/0645

AUTHORS: Kolyaskina, Z. N.; Kim Gi ym

...eactions of chlorine-bearing telomers of dienes. ... Synthesis of ... with quaternary carbon atoms

...organicheskoy khimii, v. 1, no. 4, ...

...amine, polymer, organic synthesis, ...

... authors describe the results of ... complexes of tertiary butyl chloride ... 3,5-dimethylhexen-2 and 1-... diethyl amines. All the experiments ... as the initial chlorides. ... were obtained, and intense deformation ... (... 970 cm^{-1}) were observed, but ... of the vinyl ... detected. As previously determined, the ... of dienes ... halides also react with amines without allyl ... Unsaturated ... converted to saturated forms by hydrolysis on palladium. The ..., formulas, and properties of the amines obtained are tabulated

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

AP5011138

...ble. The compositions, formulas, and properties of the chemical ...rrclonates are also given. Orig. art. has: 1 figure and 1 table.

...: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad ...al Institute)

29Feb64 ENCL: 00 SUB CODE: OC GC

... 003 OTHER: 000

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KLEYN, A.L.; DANILOV, A.M.; Prinimali uchastiye: KOLYASNIKOV, M.P.; MISBAKHOV, A.K.; ANTROPOVA, N.G.; NESMEYANOV, Ye.V.; KHARITONOV, Yu.A.; TIMONINA, V.M.; LOPTEV, A.A.; TSIKAREV, V.G.

Accelerating the assimilation of lime during slag formation in basic open-hearth furnaces. Stal' 24 no.1:32-34 Ja '64. (MIRA 17:2)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov i Zlatoustovskiy metallurgicheskiy zavod (for Kleyn, Danilov).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 04309-67 EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6018266 (A) SOURCE CODE: UR/0133/66/000/002/0174/0175 61 60 B

AUTHORS: Bushmin, V. S.; Kalinina, Z. M.; Guseva, Z. F.; Kolyasnikova, R. I.; Antropova, N. G.; Chikina, V. G.

ORG: Chelyabinsk Metallurgical Scientific Research Institute (Chelyabinskiy n.-i. institut metallurgii); Zlatoust Metallurgical Plant (Zlatoustovskiy metallurgicheskiy zavod)

TITLE: Production technology and properties of valve steel EI992

SOURCE: Stal', no. 2, 1966, 174-175

TOPIC TAGS: alloy steel, metallurgic research, valve, engine component, internal combustion engine / EI992 alloy steel

ABSTRACT: A new valve steel (EI992) has been developed. It is designed for use in construction of valves for high compression automobile engines. The microstructure, hardness, and the usual mechanical properties of the steel were determined, and the results are tabulated. A brief description of the manufacturing process is presented. The following technique for valve production was developed: 1) thermal treatment after drop-forging with attainment of 20—26 R_c hardness; 2) mechanical treatment; 3) surfacing the face of valve head; 4) filling with

Card 1/2 UDC: 621.785:669.15:62—332

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 04309-67

ACC NR: AP6018266

sodium and sealing; 5) complete thermal treatment (quenching from 1050—1080C in oil or air and annealing at 760—800C). Valves made from steel EI992 have been successfully tested and are used at present in truck engines. Orig. art. has: 2 tables and 1 graph.

SUB CODE: 11,13/SUBM DATE: none

Card 2/2 gd

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SHCHEGLOV, V.D.; KOLYASNIKOV, Yu.A.

Div'ya Cave. Peshchery no.4:5-19 '64. (MIRA 18:5)

1. Permskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

MENUSHENKOV, P.P.; KHASIN, G.A.; VACHUGOV, G.A.; KRYLOV, S.M.; Prinimali uchastiye: KOLYASNIKOVA, R.I.; POCHEKOVSKIY, R.A.; ANTROPOV, O.F.

Improving the macrostructure and reducing nonmetallic inclusions in the electric slag refining of alloyed steel. Stal' 23 no.12:1110-1112 D '63. (MIRA 17:2)

1. Zlatoustovskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYASNIKOVA, R.I

L 16306-65 EWT(m)/EWA(d)/T/EWP(t)/EWP(b) MJW/JD
ACCESSION NR: AP4045659 S/0133/64/000/009/0836/0839

AUTHOR: Gavrilov, O. T.; Boyarshinov, V. A.; Shalimov, Al. G.; Dolinin, D. P.; Khasin, G. A.; Kolyasnikova, R. I.; Savenok, I. L.

TITLE: Quality of vacuum-arc-melted ball-bearing steel

SOURCE: Stal', no. 9, 1964, 836-839

TOPIC TAGS: ball bearing steel, ShKh 15 ball bearing steel, vacuum arc melted ShKh 15 steel, high grade ShKh 15 steel, improved melting method

ABSTRACT: A study has been made to determine the causes of flaws in consumable-electrode vacuum-arc-melted ShKh 15 steel for ball bearings and to find the means to eliminate them. As a result, several improvements in melting technique have been adopted, so that it now is possible to obtain high-grade steel for precision and special-purpose ball bearings by a single vacuum-arc melting of the ShKh 15-steel consumable electrodes. The "spot" inhomogeneity of the ingots, formerly the cause of 90% of the rejects, was fully eliminated by using symmetrical coaxial current conductor and by eli-

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L 16306-65
ACCESSION NR: AP4045659

minating nonsymmetrical magnetic masses. Light stringers, or stratified crystallization, were completely eliminated by automatic control of the electrode feed. Another type of ingot flaw, bright spots containing 0.04—0.05% less carbon than the bulk of the metal, was eliminated by improving the electrode holders and by leaving a portion of the electrode, 100—200 mm long, unmelted. The ingot pipe was eliminated by gradually decreasing the arc current from 4.0—4.4 Ka to 0.8—1.2 Ka during the last 10—15 min of melting. Orig. art. has: 10 figures and 3 tables.

ASSOCIATION: TsNIIChM and Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant)

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, IE

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KALININA, Z.M., inzhener; KOLYASNIKOVA, R.I., inzhener; POZNYAKOVA, Ye.M., inzhener.

Supplementary heat treatment of structural steel. Stal' 15 no.2:164-167 F '55. (MIRA 8:5)

1. Zlaroustovskiy metallurgicheskiy zavod.
(Steel, Structural--Heat treatment)

The results are analysed of experiments on the use of supplementary heat treatment for improving the mechanical properties of alloy constructional steels under mass-production conditions in metallurgical works.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KHASIN, G.A.; KOLYASNIKOVA, R.I.; VACHUGOV, G.A.; BOYARSHINOV, V.A.; GAVRILOV, O.T.; ALEKSEYENKO, M.F.; MELIKHOV, P.I.; VYBORNOV, A.F.

Electric slag refining of stainless, heat-resistant steel. Stal' 23 no.10:908-910 O '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

VOINOV, S.G.; KOSOY, L.F.; SHUMOV, M.M.; SHALIMOV, A.G.; CHEKHOMOV, O.M.; ANDREYEV, T.B.; AFANAS'YEV, S.G.; KALINNIKOV, Ye.S.; Prinimali uchastiye: KORNEYENKOV, A.N.; GURSKIY, G.V.; BOKSHITSKIY, Ya.M.; PETROV, A.K.; MOKHIR, Ye.D.; KOLYASNIKOVA, R.I.; KHASIN, G.A.; DANILIN, V.P.; PLEKHANOV, P.S.; MAZUN, A.I.; MARKIN, A.A.

Refining converter steel in the ladle with liquid synthetic slag. Stal' 22 no.3:226-232 Mr '62. (MIRA 15:3)
(Steel—Metallurgy)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

ACCESSION NR: AP4040388 S/0133/64/000/006/0540/0544

AUTHORS: Okhrimovich, B. P. (Engineer); Tishchenko, O. I. (Engineer); Filatov, S. I. (Engineer); Kolyasnikova, R. I. (Engineer); Gurevich, Yu. G. (Candidate of technical sciences)

TITLE: Dark crust in the macrostructure of stainless heat resistant alloyed structural steels

SOURCE: Stal', no. 6, 1964, 540-544

TOPIC TAGS: steel, stainless steel, heat resistant steel, crust formation, steel 13Kh12NVMFA, steel 13Kh14NVFRA, steel 20Kh15N3MA, steel Kh17N2, steel 4Kh9S2, steel Kh28, steel Kh17, steel Kh25, structural steel 18KhNVA, structural steel 15KhGNTA, structural steel 18KhNT, structural steel 40KhNMA

ABSTRACT: This study is a continuation of a previous investigation on the nature of dark crusts common on stainless heat-resistant steels of the types 13Kh12NVMFA, 13Kh14NVFRA, 20Kh15N3MA, Kh17N2, Kh17, Kh25, 4Kh9S2, Kh28 and on the alloyed structural steels 18KhNVA, 15KhGNTA, 18KhNT, 40KhNMA. The investigation consisted of metallographic analysis of samples cut from "healthy" and from defective sections of ingots, and the comparison of their compositions and structures. Metal-

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

ACCESSION NR: AP4040388

lographic study showed that defective sections were richer in carbon, aluminum, and aluminum oxides. Large silicate inclusions of complex composition with multiple aluminate inclusions were found to be distributed regularly in the direction of deformation. Corundum represented the basic part of the precipitate and occurred in the form of transparent colorless grains (N_g = 1.767). Spinel and titanium were less common. The precipitate also contained colored anisotropic inclusions with N_g = 1.775. The experiments revealed that the dark crust originated in the deadhead zone and penetrated the body of casts during the crystallization period. Defects caused by crust formation were eliminated by preventing the chipping of the crust and its subsequent sinking into the metal. This was achieved by decreasing the heat of flux by sprinkling lunkerite 28, vermiculite powder, or chamotte over the ingots (2 kg per ton of metal). Orig. art. has: 1 table, 6 figures, and 1 formulas.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskiy politekhnicheskiy institut (Zlatoust Metallurgical Plant and Chelyabinsk Polytechnic Institute)

SUBMITTED: 00 DATE ACQ: 24Jun64 ENCL: 00

SUB CODE: MM NO REF SOV: 015 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

OKHRIMOVICH, B.P., inzh.; TISHCHENKO, O.I., inzh.; FILATOV, S.I., inzh.; KOLYASNIKOVA, R.I., inzh.; GUREVICH, Yu.G., kand.tekhn.nauk

Dark crust in the macrostructure of stainless, heat-resistant structural steel alloys. Stal' 24 no.6:540-544 Je '64. (MIRA 17:9)

1. Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYAYEV, Grigoriy Ivanovich; SKARZHINSKIY, V.I., otv. red.; SHTUL'MAN, I.F., red.

[Pre-Cambrian tectonics of the Ukrainian iron-ore provin.e] Tektonika dokembria Ukrainskoi zheleznorudnoi provintsii. Kiev, Naukova dumka, 1965. 188 p. (MIRA 18:7)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

EWP(k)/EWT(m)/EWP(b)/T/EWA(d)/EWP(w)/EWP(v)/EWP(t) Pf-4
JD/HM
0025/0028
AP5... 896

...elev, V. A. (Engineer); Kolyayev, ...

...stresses and crack formation in wel...

...ergetika, no. 12, 1964, 25-28

...ding, welding evaluation, weld... rupture,
...1BN12T steel, 68SP 300/215 ... pipe

...ations dealing with the bending ... of crack ... welded joints of steam pipes made of aus... were performed. ...ctions from a 68SP-300/215 boiler ... were of ... with a diameter 194 x 28 mm ... steel 1Kh18N12T. ...ure was 211 bars and the tempera... analyses of ... did not confirm the calcu... values of ... of cracks which were ... the compen... ...erably smaller than the calcula... the flexibility ... as compared to the allowed val... ...and should ... a pipe did not change the ...

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

ACCESSION NR: AP4047090

attempted. Orig. art. has: 3 figures and 1 table.

ENCL: 00

NO REF SOV: [illegible] OTHER: 000

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBALOV, L. N.

AUTHOR: KOZLITIN,G.I., and KOLYBALOV,I.N., engineers. PA - 2413

TITLE: The Rational Design of the Mould for Continuous Casting of Steel. (Ratsional'naya konstruktsiya kristallizatora dlya nepreryvnoy razlivki stali, Russian).

PERIODICAL: Stal', 1957, Vol 17, Nr 3, pp 209 -213 (U.S.S.R.)

Received: 5 / 1957 Reviewed: 5 / 1957

ABSTRACT: The first industrial test plant for semi-continuous casting of steel in the U.S.S.R. is installed at the factory "Krasnyy Oktyabr'". Non-corrosive steel of a diameter of 150 x 600 mm and a length of up to 6 m is cast. After the crystallizer is filled with metal up to from 200 - 300 mm from the upper edge, the extracting device is automatically switched in and the block with a liquid core leaving the crystallizer reaches the zone of intense cooling. Since 1951, when the plant was put into operation, several constructional improvements were introduced, the most important of which was the replacement of the immobile crystallizer by a lighter one which could move backwards and forwards. The three constructions at present in use are compared: the immobile one, the constructions on springs, and the one with a backwards, and forwards motion. Immobile crystallizers are being used by Babkock & Wilkor in the U.S.A., Böhler in Austria, and "Krasnoye Sormovo". The latter type was an effective means of preventing the hardened exterior layer from getting stuck in the crystallizer as frequently

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

The Rational Design of the Mould for Continuous Casting of Steel.

happens in the case of the immobile crystallizer because the exterior layer of the ingot when being lowered is immobile with respect to the walls of the crystallizer. The new crystallizer allowing a backwards- and forwards motion, which has been in use since 1956, weighs only 1400 kg, is considerably more simple, and less expensive. The elimination of "getting stuck" makes it possible to arrange remote control and automatization of the process of continuous pouring. Besides, the new crystallizer has greater strength. (7 illustrations).

ASSOCIATION: Not given.
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress.
Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBANOV, A., polkovnik; SELEZNEV, A., polkovnik

Action of the antiaircraft battery during the offensive. Voen.vest. 39 no.4:49-55 Ap '59. (MIRA 12:7)
(Antiaircraft guns)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBANOV, V.A.; LOZYUK, N.I.; SAKHAROV, V.G.; SUSHCHINSKAYA, I.Yu.; BOBROV, V.Ya., kand. ekon. nauk, otv. red.; DENISOVA, V.N., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Latin America; political and economic handbook] Latinskaia Amerika; politiko-ekonomicheskii spravochnik. Kiev, Izd-vo AN USSR, 1963. 283 p. (MIRA 17:3)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBASOV A.I

KHRENNIKOV, S.S.; KOLYBASOV, A.I.

The initiative of M.Levchenko and G.Mukhanov; experience of the Leninogorsk brick factory in lowering production costs. Gor.khoz. Mosk. 25 no.12:37-39 D '51. (MLRA 7:11)
(Moscow--Brick industry) (Brick industry--Moscow)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

ACC NR: AP7008893 SOURCE CODE: UR/0386/66/004/008/0329/0332

AUTHOR: Shapiro, I. S.; Kolybasov, V. N.

ORG: Institute of Theoretical and Experimental Physics (Institut teoreticheskoy i eksperimental'noy fiziki)

TITLE: Treiman-Yang criterion for spin particles

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu, v. 4, no. 8, 1966, 329-332

TOPIC TAGS: relativistic particle, particle physics

SUB CODE: 20

ABSTRACT: An earlier article by the authors and G. R. AUGST showed that for nonrelativistic particles a number of cases exist where the Treiman-Yang criterion is applicable despite the fact that the spin of polar particle j_i is nonzero (particularly when $j_i = 1/2$). Some authors assert that the Treiman-Yang criterion is also satisfied in the relativistic case for 1/2 particle exchange. The present article shows that this assertion is incorrect and that the series of cases cited in the earlier article by the authors and G. R. AUGST remains valid for high-energy nuclear reactions when the left apex of the polar diagram is nonrelativistic and the right apex is relativistic. Orig. art. has: 1 figure and 6 formulas. [JPRS: 39,688]

Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

S/056/63/044/001/047/067
B102/B186

AUTHORS: Shapiro, I. S., Kolybasov, V. M.

TITLE: The mechanism of π^- capture by light nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 1, 1963, 270-271

TEXT: N. V. Rabin et al. (Phys. Rev. Lett., in press) have shown that when π^- mesons are stopped and captured by light emulsion nuclei (C^{12} or O^{16}) a number of p, d, and t are emitted with E > 25 Mev. Since this energy is much greater than the nuclear temperature, such emissions must be due to direct processes, e.g. interaction of π^- with nucleon groups such as He^2, He^3 or α. On the basis of dispersion theory, using the pole graph formulas obtained by Shapiro (ZhETF, 41, 1616, 1961), the relative emission probabilities for p, d, and t on π^- capture are calculated for C^{12}. It is assumed that the above-mentioned nucleon groups are α-particles and that the reaction amplitude is constant. Besides the relative yields the energy spectrum of the particles emitted on π^- capture is calculated. The

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

The mechanism of π^- capture ...

results are in relatively good agreement with experimental data, i.e. π^- capture by nuclear α-particles can be considered the dominant mechanism. There are 2 figures.

SUBMITTED: July 26, 1962

Card 2/2

of a series of reactions, [illegible] full cross sections are measured. A simple analysis of such reactions based on the effective number of nucleons in the nucleus is made, and conditions required for the

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 07905-67

ACC NR: AT6033193

use of this method are given. In a series of cases, the value of the widths calculated during stripping and pick-up experiments are below the values obtained from reaction (p,2p). Experiments were made at relatively low energies. Reactions (n,α) and (α,n) should be studied at energies ranging from several tens to several hundreds at Mev. The authors are grateful to I. S. Shapiro for attention given to their work, a series of remarks, and discussion of results. Orig. art. has: 6 figures, 14 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 23Apr66/ ORIG REF: 004/ OTH REF: 029/

Card 2/2 gd

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

ACC NR: AT6001619 SOURCE CODE: UR /3138/65/000/364/0001/0036

AUTHOR: Kolybasov, V. M.

ORG: none

TITLE: Capture of stopped negative Pi-mesons by light nuclei

SOURCE: USSR. Gosudarstvennyy Komitet po ispol'zovaniyu atomnoy energii, Institut teoreticheskoy i experimentalnoy fiziki. Doklady, no. 364, 1965. Zakhvat ostanovivshikhsya Pi negative-mezonov legkimi yadrami. 1-36.

TOPIC TAGS: pi meson, pion, ~~capture~~, light nucleus, alpha particle, fast particle

ABSTRACT: The capture of negative pi-mesons by light nuclei of the alpha-particle type (C^{12}, O^{16}) with the emission of fast protons, neutrons, deuterons, and tritons is considered. Relative yields and energy spectra of the final particles are calculated. The experimental data confirm the correctness of the assumption of the predominant role of the alpha-particle pole diagram. The author is indebted to I. S. Shapiro for directing the work and for numerous valuable comments, to N. V. Rabin for discussion of a number of problems, and to T. D. Bogdanov and Ye. V. Leferov for making the numerical calculations. Orig. art. has: 45 equations and 10 figures.

SUB CODE: ~~18, 20~~ 20/ SUBM DATE: 05Jul65/ ORIG REF: 014/ OTH REF: 031

Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 07905-67 EWT(m)

ACC NR: AT6033193 SOURCE CODE: UR/3138/66/000/438/0001/0024

34
33
B+1

AUTHOR: Kolybasov, V. M.; Smorodinskaya, N. Ya.

ORG: none

TITLE: Theoretical analysis of knocking out reaction

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 438, 1966. Teoreticheskiy analiz reaktsiy vybivaniya, 1-24

TOPIC TAGS: nucleus, matrix element, light nucleus, nucleon

ABSTRACT: Knocking out processes are analyzed theoretically. The differential cross sections of the (p,2p) reactions calculated in the pole approximation are compared with almost all available experimental data at 155 Mev, 185 Mev, and 450 Mev. The proton widths of the light nuclei obtained from the (p,2p) reactions are compared with those obtained from stripping or pick-up. In the consideration of a series of reactions, (p,pn) and (π^-,π^-n) for instance, only full cross sections are measured. A simple analysis of such reactions based on the effective number of nucleons in the nucleus is made, and conditions required for the

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L 07905-67

ACC NR: AT6033193

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

use of this method are given. In a series of cases, the value of the widths calculated during stripping and pick-up experiments are below the values obtained from reaction (p,2p). Experiments were made at relatively low energies. Reactions (n,α) and (α,n) should be studied at energies ranging from several tens to several hundreds at Mev. The authors are grateful to I. S. Shapiro for attention given to their work, a series of remarks, and discussion of results. Orig. art. has: 6 figures, 14 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 23Apr66/ ORIG REF: 004/ OTH REF: 029/

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 1840-66 EWT(m)/EWA(h)
ACCESSION NR: AT5022286 UR/3138/64/000/297/0001/0020

AUTHOR: Kolybasov, V. M.

TITLE: On the mechanism of (Pi super -, Pi super - n) reactions

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 297, 1964. O mekhanizme (pi minus, pi minus n) reaktsiy, 1-20

TOPIC TAGS: carbon, pi meson, nuclear cross section, neutron, deutron, nuclear reaction

ABSTRACT: The cross section of the reaction $C^{12}(\pi^-, \pi^- n)C^{11}$ was calculated for bombarding mesons in the 40-600 MEV range. The results of the calculation of the excitation curve agree with the experimental data. The reduced vertex part (neutron width) of the virtual decay $C^{12} \rightarrow C^{11} + n$ was obtained from absolute values of the cross sections; it coincides with the value obtained from the pickup reaction $C^{12}(p, d)C^{11}$. These facts confirm the hypothesis that the investigated reaction involves a polar mechanism. "The author is deeply grateful to I. S. Shapiro for his interest and valuable comments, to S. F. Timashev for a discussion of problems relating to the finding of the reduced vertex

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 1840-66
ACCESSION NR: AT5022286

part from experimental data, and to L. I. Koroleva for carrying out the numerical computations." Orig. art. has: 3 figures and 18 formulas.

ASSOCIATION: none

SUBMITTED: 24Nov64 ENCL: 00 SUB CODE: NP

NO REF SOV: 005 OTHER: 008

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 4583-66 EWT(m)/EWA(h)
ACCESSION NR: AP5020266 UR/0367/65/002/001/0144/0150

20
16
B

AUTHOR: Kolybasov, V. M.

TITLE: On the mechanism of the (π^-, π^-n) reactions 19

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 144-150

TOPIC TAGS: pion scattering, carbon, scattering matrix, neutron scattering

ABSTRACT: The cross section for the reaction $C^{12}(\pi^-,\pi^-n)C^{11}$ was calculated in the pole approximation for incident negative pion energies in the range from 40 to 600 MeV, for the purpose of comparing the calculations with the experimental data of P. L. Reeder and S. S. Markowitz (Phys. Rev. v. 133, B639, 1964). In the calculations, the matrix element of the $C^{12}(\pi^-,\pi^-n)C^{11}$ reaction is expressed in terms of the matrix elements for the virtual decay $C^{12} \rightarrow C^{11} + n$ and for elastic π^-n scattering. The quantities required for the calculations

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

are taken from experiments on scattering of pions by free neutrons, the pickup reaction $C^{12}(p, d)C^{11}$, triplet pn scattering, and the reaction $C^{12}(\pi^-,\pi^-n)C^{11}$ itself. The reduced vertex part (neutron width) for the virtual decay $C^{12} \rightarrow C^{11} + n$ is obtained from the absolute value of the cross sections. This value agrees with that obtained from the pickup reaction $C^{12}(p,d)C^{11}$. The results thus confirm that in the energy region under consideration the principal mechanism for the $C^{12}(\pi^-,\pi^-n)C^{11}$ reaction is the pole mechanism. 'The author is deeply grateful to I. S. Shapiro for interest in the work and valuable remarks, to S. F. Timashev for a discussion of questions connected with the determination of the reduced vertex part from the experimental data, and to L. I. Koroleva for the numerical calculations.' Orig. art. has: 3 figures and 18 formulas.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 4583-66
ACCESSION NR: AP5020266

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKIAE (Institute of Theoretical and Experimental Physics, GKIAE)

SUBMITTED: 15Feb65 ENCL: 00 SUB CODE: NP

NR REF SOV: 003 OTHER: 010

Card 3/3 DP

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 29692-66 EWT(m)/T
ACC NR: AT6012694 SOURCE CODE: UR/3138/65/000/376/0001/0028

AUTHOR: Kolybasov, V. M.

ORG: Institute of Theoretical and Experimental Physics of the State Committee on the Use of Atomic Energy SSSR (Institut teoreticheskoy i eksperimental'noy fizki Gos. komiteta po ispol'zovaniyu atomnoy energii SSSR)

TITLE: Capture of stopped π^- mesons by light nuclei. 2.Angular correlations of fast particles

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 376, 1965. Zakhvat ostanovivshikhsya Pi- mezonov legkimi yadrami. Uglovyye korrelyatsii bystrykh chastits, 1-28

TOPIC TAGS: Pi meson, meson interaction, Alpha particle reaction, fast particle, correlation statistics, neutron interaction, pion proton interaction, deuteron interaction, tritium

ABSTRACT: In the first part of the article (ITEF Preprint No. 364; Yadernaya fizika, in press) it was shown that the available experimental data on the energy spectra and relative yields of fast protons, deuterons, tritium nuclei, and neutrons produced when π^- mesons are stopped and captured by C^{12} and O^{16} are in good

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agreement with the assumption that the pole α-particle diagram plays a prominent role in this process. In order to determine other quantities that characterize fast particles and are sensitive to the π-meson absorption mechanism, the authors investigated the angular correlations of the produced particles and the distribution of the nucleon pairs with respect to the relative-motion energy produced in such processes. The contribution of the phase volume to the angular correlations is first evaluated, and then the angular correlations due to the pole diagrams are determined. Different distinguishing features of n-t, n-d, n-n, and n-p correlations are discussed and some results obtained by others are compared. It is shown that not only the experimental data on the relative yields and on the spectra of fast particles produced in these reactions, but also the available data on the angular correlation of the neutrons agrees well with the assumption that the α-particle pole diagrams predominate. On the other hand, the two-nucleon capture mechanism yields spectra and angular distributions which do not agree with experiment. It is pointed out that the assumptions on which these deductions are based must still be experimentally verified. Some experiments still to be performed in order to obtain more information on the subject are proposed. The author thanks I. S. Shapiro for guidance and valuable remarks, A. V. Dem'yanov, A. Ye. Ignatenko, A. V. Kuptsov, V. N. Shkundenkov for the opportunity to read their papers prior

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 29692-66
ACC NR: AT6012694

to publication, N. V. Rabin for a discussion of several problems, and L. M. Voronina for the numerical calculations. Orig. art. has: 5 figures and 51 formulas.

SUB CODE: 20/ SUBM DATE: 09Jul65/ ORIG REF: 006/ OTH REF: 006

Card 3/3 CC

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SHISHKIN, S.A.; KOLYBELIN, N.M.; MOROZOVA, Yu.V., red.izd-va; KUZNETSOVA, A.I., tekhn. red.

[Precast concrete-block stoves for housing construction by lumbering establishments] Sbornye betonoblochnye pechi dlia zhilishchnogo stroitel'stva lespromkhozov. Sost. S.A.Shishkin, N.M.Kolybelin. Moskva, Goslesbumizdat, 1960. 64 p. (MIRA 15:7)

1. Khimki. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlennosti.
(Stoves) (Concrete blocks)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBIN, V.

Presents from young naturalists. Znan.ta pratsia no.10:7 O '59. (MIRA 13:2)

1. Starshyy metodist otdela darvinizma Respublikanskoy stantsii yunykh naturalistov.
(Ukraine--Sugar beets) (Khmel'nitskii Province--Corn(Maize))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBIN, V.A. [Kolybin, V.O.]

Growth of certain varieties and hybrids of the pernyi silkworm fed under different thermal conditions. Pratsi Inst.zool.AN URSR 16:112-117 '60. (MIRA 13:7)
(Silkworms)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SINITSKIY, N.N.; BOGACH, A.V.; KOLYBIN, V.A.

Effect of the conditions of the environment and the action of biologically active substances on the survival and productivity of the mulberry silkworm. Vop. ekol. 7:165-166 '62. (MIRA 16:5)

1. Institut zoologii AN UkrSSR, Kiyev.
(Silkworms)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBIN, V.A. [Kolybin, V.O.]; ZOLOTOVERKHAYA, I.M. [Zolotoverkha, I.M.]

Diurnal rhythmicity of the sorption of vital stains by the intestinal tissues of silkworm caterpillars. Dop. AN URSR no.12:1653-1655 '63. (MIRA 17:9)

1. Institut zoologii AN UkrSSR. Predstavleno akademikom AN UkrSSR V.G. Kas'yanenko [Kas'ianenko, V.H.].

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SINITSKIY, N.N. [Synyts'kyi, M.M.]; BOGACH, A.V. [Bohach, A.V.]; KOLYBIN, V.A. [Kolybin, V.O.]

Effect of antibiotic substances on the growth, development and productivity of the silkworm Bombyx mori L. Pratsi Inst. zool. AN URSR 20:13-20 '64. (MIRA 18:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBIN, V.A. [Kolybin, V.O.]

Characteristics of the growth of Lepidoptera. Pratsi Inst. zool. AN URSR 20:21-27 '64. (MIRA 18:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBINA, O.D.

Pavlov's theory in hospital administration. Vest.AMN SSSR no.3: 27-33 '53. (MLRA 7:1)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny im. N.A.Semashko (direktor Ye.D.Ashurov) Akademii meditsinskikh nauk SSSR. (Hospitals--Management and regulation) (Therapeutics)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

1. KOLYBINA, O. D.

2. USSR (600)

4. Ukraine - Hospitals

7. Therapeutic and disease prevention regimen adopted in hospitals of the Ukrainian S.S.R. Sov. zdrav., 12, No. 1, 1953.

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

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBINA, O.D. (Moscow)

Proper service to patients. Med.sestra no.2:21-24 F '54. (MLRA 7:1)
(Nurses and nursing) (Hospitals)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBINA, O.D.

New hospitalization system in Leningrad. Sov.zdrav. 17 no.1:11-14 Ja '58. (MIRA 11:2)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Semashko Ministerstva zdravookhraneniya SSSR.
(HOSPITALS
reorganiz. of system of hosp. (Rus))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBINA, O.D.

Work of the medical center at the Smolensk Linen Combine. Zdrav. Ros.Feder. 3 no.12:17-20 D '59. (MIRA 13:4)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A. Semashko (direktor Ye.D. Ashurkov).
(SMOLENSK--TEXTILE INDUSTRY--HYGIENIC ASPECTS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYBINA, Ol'ga Dmitriyevna; SAFONOV, A.G., red.; POGOSKINA, M.V., tekhn. red.

[Principles of a therapeutic and prophylactic regimen] Osnovy lechebno-okhranitel'nogo rezhima. Moskva, Medgiz, 1961. 106 p. (MIRA 15:1)

(HOSPITALS) (THERAPEUTICS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KAL'YU, P.I., red.; KOLYBINA, O.D., red.; POGOSKINA, M.V., tekhn. red.

[Medical service for workers in industrial enterprises] Meditsinskoe obsluzhivanie rabochikh promyshlennykh predpriiatii. Moskva, Medgiz, 1961. 124 p. (MIRA 15:4)
(MEDICINE, INDUSTRIAL)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SHCHERBAKOVA, Mira Grigor'yevna; KOLYBINA, O.D., red.; MIRONOVA, A.M., tekhn. red.

[Work of the medicosanitary service in reducing disease incidence among miners] Opyt raboty mediko-sanitarnoi chasti po snizheniiu zabolevaemosti shakhterov. Moskva, Medgiz, 1963. 122 p. (MIRA 16:4)

(MINERS--DISEASES AND HYGIENE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A.

What garage equipment will be manufactured by the GARO Trust in 1961. Avt.transp. 39 no.1:22-25 Ja '61. (MIRA 14:3)

1. Glavnyy inzhener Tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya.
(Garages—Equipment and supplies)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A.

Instruments for checking the quality of automobile brakes in the course of operation. Avt. transp. 39 no.5:27-30 My '61. (MIRA 14:5)

1. Glavnyy inzh.Tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya.
(Automobiles—Brakes)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A. L.

Rostov

Mbr., Editorial Bd., Avtomobil', -1948-.

Chief Engineer, Rostov Automobile Repair Trust, -c1948-

"Improving the quality of automobile maintenance," Avtomobil', No. 9, 1948.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

YEFREMOV, Vladimir Valentinovich, professor; KOLYCHEV, A.L., redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor

[Automobile repair] Remont avtomobilei. Moskva, Avtotransizdat ministerstva avtomobil'nogo transporta i shosseinykh dorog SSSR, Pt. 1. 1954. 343 p. (MLRA 7:10)
(Automobiles--Repairing)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A., inzhener.

Repair of auto parts. Avt.transp. 32 no.1:24-26 Ja '54.(MLRA 7:8)
(Automobiles--Repairing)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

YEFREMOV, V.V, professor; KOLYCHEV, A.L., redaktor; MAL'KOVA, N.V. tekhnicheskiy redaktor.

[Repair of automobiles] Remont avtomobilei. Moskva, Nauchno-tekhn.izd-vo avtotransportnoi lit-ry, Pt. 2,1955. 310 p.
(Automobiles--Repairing) (MLRA 8:12)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A., inzhener.

Improving the organization of automobile repairing. Avt. transp. 34 no.10:19-21 O '56. (MLRA 9:12)

(Automobiles--Repairing)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

Kolychev, A. L.

ZHERNOVKOV, A.S.; NIKONENKO, I.N.; KOLYCHEV, A.L., red.; SHELUKHIN, A.S., red.; KOGAN, F.L., tekhn.red.

[Garage and automobile repairing equipment; a reference catalog] Garazhnoe i avtoremontnoe oborudovanie; katalog-spravochnik. Sostaviteli A.S.Zhernovkov i I.N.Nikonenko. Pod. obshchei red. A.L. Klycheva. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1957. 191 p. (MIRA 11:3)

1.Russia (1917- R.S.F.S.R.) Ministerstvo avtomobil'nogo transporta i shosseynykh dorog. 2.Glavnyy inzhener Tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya (for Kolychev)
(Automobiles--Service stations)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

Kolychev, A. L.

KOLYCHEV, A.

What will the enterprises of the Trust for the Management of Plants Manufacturing Garage Equipment produce? Avt.transp. 35 no.2:5 F '57. (MIRA 10:12)

1. Glavnyy inzhener Tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya.

(Service stations)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

Kolychev, A. L.

KOLYCHEV, A.

Mobile automobile repair shop. Avt. transp. 36 no.1:15-16 Ja '58.
(Automobiles--Maintenance and repair) (MIRA 11:1)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A., inzh.

Steam generator for tire-repair shops. Avt. transp. 36 no.10:18-20
O '58. (MIRA 13)
(Boilers--Design)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

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KOLYCHEV, A.

Service-station equipment made in the U.S.S.R. at the Kabul Exhibition.
Avt. transp. 36 no.11:55-56 N '58. (MIRA 11:11)
(Kabul (Afghanistan)--Automobiles--Exhibitions)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A.

Garage and Automobile Repair Equipment Trust. Avt.transp. 37 no.1: 55-56 Ja '59. (MIRA 12:2)

1. Glavnyy inzhener tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya.
(Motor vehicles--Maintenance and repair)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, Aleksandr Leonidovich; ZHERNOVKOV, Anatoliy Sergeyevich; YABLOKOV, V.I., red.; MAL'KOVA, N.V., tekhn.red.

[Garage equipment; handbook] Garazhnoe oborudovanie; spravochnik. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1960. 182 p.
(MIRA 13:7)

(Garages--Equipment and supplies)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, Aleksandr Leonidovich; ZHERNOVKOV, Anatoliy Sergeyevich; YABLOKOV, V.I., red.; MAL'KOVA, N.V., tekhn. red.

[Garage equipment; manual] Garazhnoe oborudovanie; spravochnik. Izd.2., ispr. i dop. Moskva, Avtotransizdat, 1962. 239 p. (MIRA 15:5)

(Service stations--Equipment and supplies)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, A.

Present status and future development of the production of maintenance and repair equipment. Avt. transp. 43 no.6: 4-6 Je '65. (MIRA 18:6)

1. Glavnyy inzhener Tresta po proizvodstvu garazhnogo oborudovaniya Ministerstva avtomobil'nogo transporta i shosseynykh dorog RSFSR.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

11(6), 21(1)

AUTHOR: Kolychev, B. S. SOV/89-6-5-3/33

TITLE: Application of the Processes of Sorption and Extraction in the Hydrometallurgy of Uranium (Primeneniye protsessov sorbtsii i ekstraktsii v gidrometallurgii urana)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 5, pp 513 - 527 (USSR)

ABSTRACT: This is a report on the subject mentioned in the above title, which was compiled on the basis of Western Publications concerning the 2nd Geneva Atomic Conference of 1958. The following Geneva reports were dealt with: 230, 484, 496, 497, 500, 501, 509, 511, 1096, 1113, 1255, 1361, 1412, 1533, 1550, 1719, 2063. The various extraction schemes are dealt with partly schematically and partly in detail. They are represented by tables, diagrams, or by schematical drawings. There are 8 figures, 3 tables, and 1 reference.

SUBMITTED: February 7, 1959

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SPITSYN, Vikt.; KOLYCHEV, B. S.

Results of the International Conference on the Processing and Disposal Radioactive Waste held in Monaco. Atom. energ. 9 no.1:58-63 Jl '60. (MIRA 13:7)
(Radioactive waste disposal—Congresses)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

MARTIN, F.S.; MAYLS, Dzh.L.[Miles, G.L.]; ZARUBIN, A.I.[translator]; KOLYCHEV, B.S. [translator]; SAGALOVICH, I.D. [translator] GALKIN, N.P., prof. doktor tekhn.nauk, red.; KAMAYEVA, O.M., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Chemical processing of nuclear fuels] Khimicheskaia pererabotka iadernogo topliva. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 264 p. Translated from the English. (MIRA 14:8)

1. Head of Chemistry Section, Australian Atomic Energy Commission (for Mayls).

(Nuclear fuels)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

GALKIN, Nikolay Petrovich; TIKHOMIROV, Vladislav Borisovich; KOLYCHEV, B.S., kand. tekhn. nauk, red.; ANDREYENKO, Z.D., red.; POPOVA, S.M., tekhn. red.

[Main processes and equipment in the technology of uranium] Osnovnye protsessy i apparaty tekhnologii urana. Pod red. B.S.Kolycheva. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 218 p. (MIRA 14:10)

(Uranium)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, B.S.

Results of the conference on the problem of radioactive waste disposal in seas and oceans. Atom.energ. 10 no.6:634-635 Je '61. (MIRA 14:6)

(Radioactive waste disposal—Congresses)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, B.S.

Symposium on the Treatment and burial of highly-active wastes.
Atom. energ. 15 no.2:175-177 Ag '63. (MIRA 16:8)
(Radioactive waste d'.sposal)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, B.S.

Study on the treatment and nurial of radioactive waste.
Atom. energ. 17 no.2:154-156 Ag '64 (MIRA 17:8)

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BAKHUROV, Vasiliy Gerasimovich; LUTSENKO, Inna Kirillovna; SHASHKINA, Nadezhda Nikolayevna; KOLYCHEV, B.S., red.; SOLDATENKOVA, T.A., red.

[Radioactive wastes of uranium plants] Radioaktivnye otkhody uranovykh zavodov. Moskva, Atomizdat, 1965. 150 p. (MIRA 18:7)

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EWI(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR ... AM/DM
ACCESSION NR: AP5012488 UR/0089/65/018/004/0428/0431
621.039.7

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B

Zimakov, P. V.; Kolychev, B. S.; Kulichenko, V. V.; ... Yu. P.

Heat released by highly radioactive solid compounds in ... with the problem of their disposal or utilization

Atomnaya energiya, v. 18, no. 4, 1965, 428-431

TOPIC: radioactive waste, radioactive waste disposal, spon... spontaneous heat utilization

ABSTRACT: The authors speculate on the possibility of making effective of the heat spontaneously generated in radioactive waste, ... but that as the quantity of waste accumulates in any one ... problem of spontaneous heating becomes more and more acute

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and point out that as the quantity of waste accumulates in any one
e problem of spontaneous heating becomes more and more acute.
aults for radioactive wastes are discussed together with
rangements and methods of cooling. It is suggested that one
way of regulating the temperature in the vault is to produce

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mal process in it, such as melting a charge of glass-pro- rial to maintain the temperature at a fixed level. To electric simulator was constructed for the simulation released from molten high-activity compounds. Tests with or have shown that an average of 2 kg of glass-producing e molten per hour for each kilowatt of power in excess essary to maintain the melting temperature of the charge. e of 1070 -- 1170K could be maintained in the model vault under different simulated specific activities of the s (2.5 -- 10 Curie/dm^3). Although such an arrangement vault of larger size than is customarily used, the results me of the difficulties connected with the spontaneous ed by stored radioactive waste can be eliminated by using melt charges of low-activity waste. Furthermore, the activity compounds can be used before burial as sources of tricity. Original article has: 3 figures and 6 tables.

N: None

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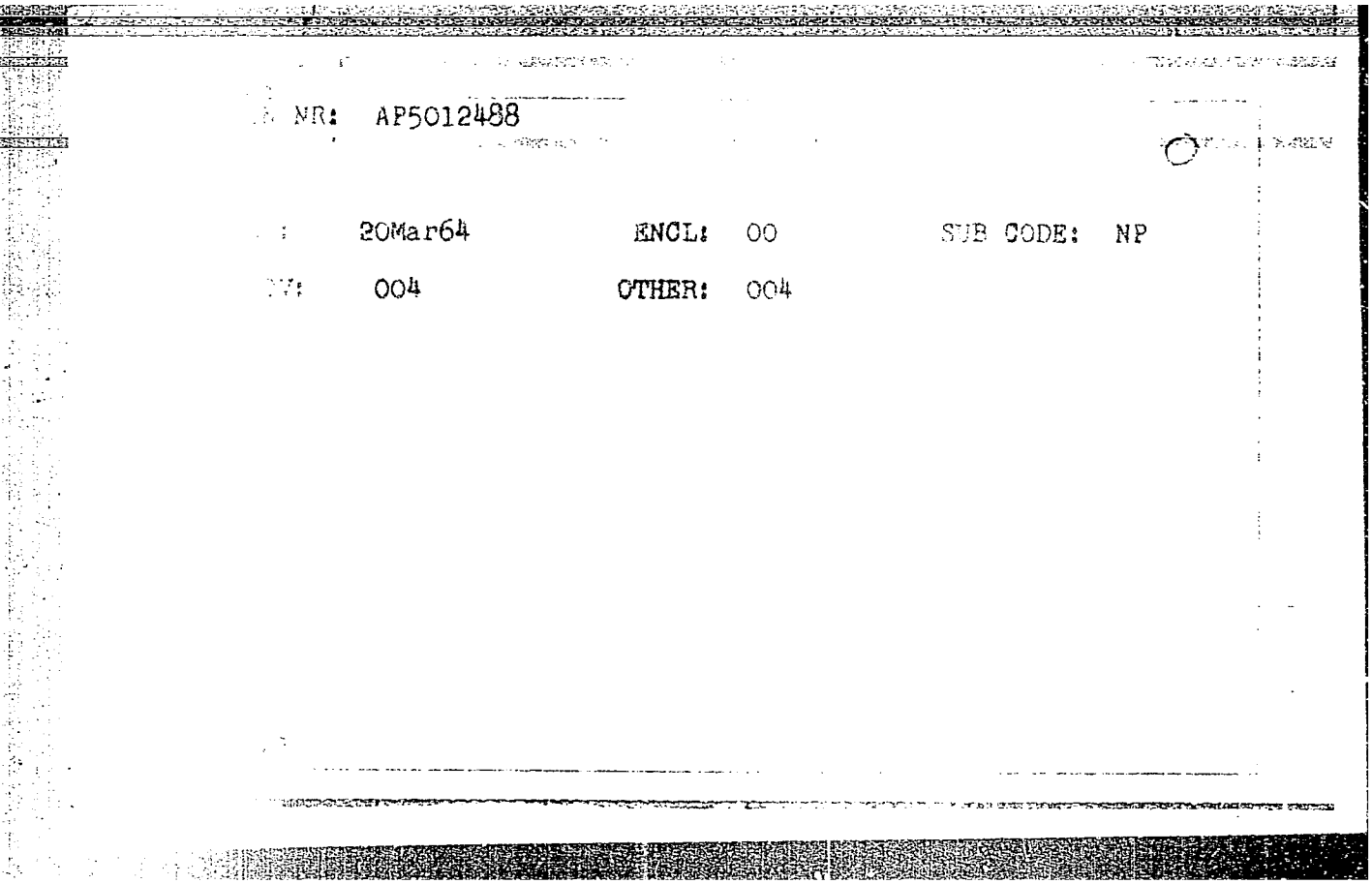

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, Boris Sergeyevich; MALYAVINA, O.M., red.

[The atom quenches thirst] Atom utoliaet zhazhdu. Moskva, Atomizdat, 1965. 81 p. (MIRA 18:10)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

L 27210-66 EPF(n)-2/EWT(m)/ETC(f)/EWG(m) WW

ACC NR: AM6002130 Monograph UR/ 10 B+1

Kolychev, Boris Sergeyevich

The atom quenches thirst (Atom utolyayet zhazhdu) Moscow, Atomizdat, 1965. 81 p. illus., biblio. 15,300 copies printed.

TOPIC TAGS: atomic energy use, desalinization, water resources

PURPOSE AND COVERAGE: This is a popular description of various methods of water desalinization. Particular attention is paid to desalinization using the atomic energy because it is the cheapest prospective method. The book is intended for the general reader.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

SUBM DATE: 13Aug65/ ORIG REF: 011/ OTH REF: 003/

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, G.K.; LYUTTSAU, A.G., inzh., retsenzent; MAKSIMOV, N.V., kand. tekhn. nauk, red.; VASIL'YEVA, N.N., tekhn. red.

[Block systems of d.c. locomotives] Blokirovki na elektrovozakh postoiannogo toka. Moskva, Transport, 1964. 62 p. (MIRA 17:3)

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YANOV, Viktor Petrovich; KUROCHKA, A.L.; ALIKIN, R.I.; KOLYCHEV, G.K., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; DROZDOVA, N.D., tekhn. red.

[Auxiliary machines of main line d.c. locomotives] Vspomogatel'nye mashiny magistral'nykh elektrovozov postdiannogo toka. Moskva, Transzheldorizdat, 1963. 119 p. (MIRA 16:8)

(Electric locomotives--Electric equipment)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, I.

25261 KOLYCHEV, I. Za shirokoe primenenie summiryyushikh mashin v gosbanke. Denbei i kredit, 1948, No. 6, S. 25-30

SO: Letopis 'Zhurnal Statey, No. 30, Moscow, 1948

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PROSELKOV, A.; KOLYCHEV, I.; NIKANOROV, T.; KAGANOVICH, A.

[The use of machines in accounting operations of the State Bank] Mekhanizirovannyi uchet v gosbanke. Moskva, Gosfinizdat, 1952. 306 p.
(MLRA 6:7)

(Banks and banking--Accounting) (Calculating machines)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, I., Chief
Vet. Dept., Ivanov Oblast Admin. of Agric.
"Work of the Central Zooveterinary District of Kineshemsk raion, Ivanov oblast."
SO: Veterinariya 28(3), 1951, p. 54

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, I. A.

Veterinary Bacteriology

Kineshma interdistrict veterinary bacteriological laboratory - Veterinarria 29, no. 6, 1952. pages 15-17; U-4802

Monthly List of Russian Accessions, June of Congress. August 1952. Unclassified.

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KOLYCHEV, I.I., tekhnik

Rapid cross drifting. Shakht. stroi. 6 no.6:21-23 Je '62.
(MIRA 15:6)

1. Trest Pervomayskugol'.
(Donets Basin--Coal mines and mining)
(Blasting)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3

KOLYCHEV, L.

Useful monograph ("Undivided funds and capital investments of collective farms" by S. Koriunov. Reviewed by L. Kolychev). Fin. SSSR 22 no.3:90-92 Mr '61. (MIRA 14:7)
(Collective farms--Finance) (Koriunov, S.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020002-3"

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RUSAKOV, G.K., kand.sel'skokhoz.nauk; SUBBOTIN, V.P., kand.ekon.nauk; LIPATOVA, V.A., kand.ekon.nauk; ARINA, A.Ye., kand.sel'skokhoz. nauk; KORENYUGIN, G.T., mladshiy nauchnyy sotrudnik; PANKOVA, K.I., aspirantka; KLADCHIKOV, S.M., otv.red.; KOLYCHEV, L.I., red.; SVYADOSTS, Yu.I., red.

[Accounting on collective farms when business accounting is in use] Bukhgalterskii uchet v kolkhozakh pri vnedrenii khozrascheta. Moskva, 1960. 246 p. (MIRA 13:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Zaveduyushchiy otdelom ekonomiki i organizatsii proizvodstva kolkhozov Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Rusakov). 3. Otdel ekonomiki i organizatsii proizvodstva kolkhozov Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Subbotin, Lipatova, Arina). 4. Kashirskiy opornyy punkt Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Korenyugin). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for Pankova).
(Collective farms--Accounting)

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GORSHKOV, M.P., nauchnyy sotr.; KOLYCHEV, L.I., nauchnyy sotr.; KOTOV, G.G., nauchnyy sotr.; KUZ'MINA, V.I., nauchnyy sotr.; RUMYANTSEVA, A.V., nauchnyy sotr.; SELINA, N.G., nauchnyy sotr.; CHEREPKOVA, I.V., nauchnyy sotr.; POTAPOV, Kh.Ye., red.; OVCHINNIKOV, N.G., red.; PONOMAREVA, A.A., tekhn. red.

[Raising the level of the development of collective farm operation] Povyshenie urovnia razvitiia kolkhoznogo proizvodstva. Moskva, Izd-vo ekon. lit-ry, 1961. 236 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for Gorshkov, Kolychev, Kotov, Rumyantseva, Selina, Cherepkova, Kuz'mina).
(Farm management)

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SHERMENEV, M.K., kand. ekon. nauk; MOTOV, S.I.; KOLYCHEV, L.I., kand. ekon. nauk; BRAGINSKIY, L.V.; GRIGOR'YEV, S.T.; PYLAYEVA, A.P., red.; BALLOD, A.I., tekhn. red.

[Finance and the issuing of credit to agricultural enterprises] Finansy i kreditovanie sel'skokhoziaistvennykh predpriiatii. Moskva, Sel'khozizdat, 1963. 342 p. (MIRA 16:5)

(Agriculture--Finance)

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KOLYCHEV, Lev Ivanovich; BOROZDIN, B., red.; LEBEDEV, A., tekhn. red.

[Working capital of collective farms] Oborotnye sredstva kolkhozov. Moskva, Gosfinizdat, 1963. 193 p.
(MIRA 16:7)

(Collective farms--Finance)

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IKONNIKOV, V.V., prof.; VASIL'YEV, P.G., ,and, ekon.nauk; LAVROV, V.V., prof.; RYUMIN, S.M.; KOLYCHEV, L.I., kand. ekon. nauk; SAMOYLOV, V.K.; LYSKOVICH, A.A.; KOLOMIN, Ye.V., kand. ekon. nauk; MITEL'MAN, Ye.L., kand. ekon. nauk; BEL'KINA, R.K., kand. ekon. nauk; SHTEYNSHLEYGER, S.B., kand. ekon. nauk; ROTLEYDER, A.Ya., kand. ekon. nauk; POGODIN, Yu., red.; TELEGINA, T., tekhn. red.

[Finance and credit in the U.S.S.R.] Finansy i kredit SSSR. Moskva, Izd-vo "Finansy," 1964. 447 p. (MIRA 17:3)

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