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L 43756-66 EWT(m)/EWP(j)/T WW/JW/JWD/RM

ACC NR: AP6029969 (A) SOURCE CODE: UR/0413/66/000/015/0161/0161

INVENTOR: Fomenko, L. A.; Bashirov, R. Z.; Komissarov, A. M.; Vasilenko, P. F.; Drozdov, S. F.; Serdyuk, T. I.; Artamonov, B. F.; Pozdnyakov, Z. G. 39 B

ORG: none

TITLE: Unit for the continuous production of granulated ammonium nitrate based commercial explosives. Class 78, No. 184675

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 161

TOPIC TAGS: commercial explosive, ammonium nitrate, EXPLOSIVE, CONTINUOUS PRODUCTION UNIT, CHEMICAL PLANT EQUIPMENT

ABSTRACT: A commercial unit for the continuous production of granulated ammonium nitrate based commercial explosives consists of crushing and screening sections, a suspended screw conveyor dosage system with synchronized operations, a mixing drum, a semiautomatic device for weighing and packing the product, and a remote control system. In order to use this unit for the production of multicomponent explosives, e.g., a three-component explosive, and to improve the quality of mixing, a pipe-line from a wheel-pump is connected to the screw conveyer for feeding the liquid component into the conveyer; the feed bin of the suspended conveyor dosage system is connected to a pneumatic conveyer which supplies the powdered component, and the mixing drum is connected to a tubular pneumovibrator. To provide the crushing of the laminated trotyl during the transportation in the pneumatic line described above, the

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L 43756-66

ACC NR: AP6029969 0

pneumatic conveyor system is made with elbowed turns, e.g., 90°, and the transportation proceeds at a velocity of 5 m/sec under 3 atm pressure. To supply the liquid component in the required amount, the wheel pump is equipped with a speed regulator connected to the suspended conveyor dosage system for synchronized operation. To prevent dust from the powder component and to remove the static electricity the pneumatic conveyor system has a cyclone-precipitator, equipped with a valve for the automatic discharge of the precipitate from the cyclone into the feed bin, and the flexible powder-supply line is equipped with a current collector. [PS]

SUB CODE: 19/ SUBM DATE: 16Nov64/ ATD PRESS: 5074

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EWT(m)/EWP(j)

ACC NR: AP6032541 (A) SOURCE CODE: UR/0413/66/000/017/0153/0153

INVENTOR: Fomenko, L. A.; Abramov, N. G.; Vasilenko, P. F.; Velikodnyy, V. G.; Demchenko, O. G.; Usenko, V. Ya.; Eydel'man, V. S.

ORG: none

TITLE: Arrangement for packing explosive cartridges. Class 72, No. 185726

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 153

TOPIC TAGS: packing technique, paper, explosive, packing machinery, cartridge packing

ABSTRACT: An Author Certificate has been issued describing an arrangement for packing explosive cartridges. It consists of a mechanism for unwinding the paper, applying glue and a stencilled pattern on the paper and cutting the paper to specification. There are mechanisms for aligning and collecting the cartridges and shaping bundles, a rotary mechanism, mechanisms for covering packets and unloading prepared packets, and an automatic interlocking system. To increase the efficiency in shaping cartridge packets, the arrangement has a mechanism for shaping packets, made in the form of rectangular flaps hinged with two levers,

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secured on a coupling rod, and folding during lifting ten cartridges, shaping them into a peaket in rows of five. To hold the packet of cartridges during packing, the rotary mechanism is equipped with cassettes, containing a frame, a piston with a rod, and clamping levers (see Figs 1 and 2). Orig. art. has: 2 figures. [Translation]

Fig. 1

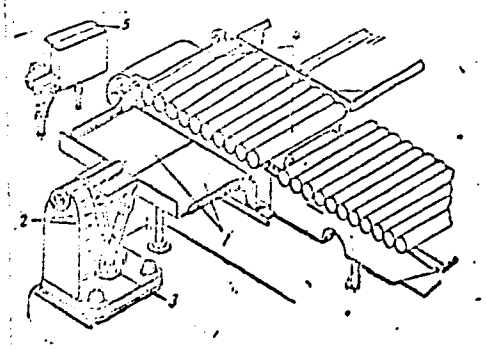

Fig. 2

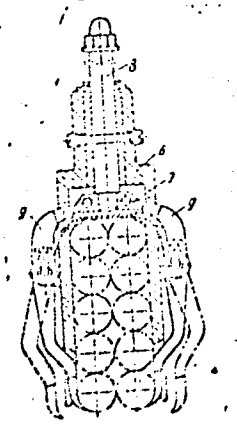

Fig. 1 and 2. Arrangement for packing explosive cartridges.
1--Flaps;
2--levers;
3--coupling rod;
4--ten cartridges;
5--packet of cartridges;
6--body;
7--piston;
8--rod [of piston];
9--levers

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

LIFANOV, I.A.; VASILENKO, P.I., redaktor.

[Reservoir basin organization; flooding and high-water damage in hydrotechnical construction] Organizatsiia chashi vodokhranilishcha; zatopleniia i podtopleniia v gidrotekhnicheskom stroitel'stve. Pod red. P.I.Vasilenko. Moskva, Gos.energ.izd-vo, 1946. 224 p.(MLRA 8:5)
(Reservoirs)

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VINTER, A.V.; NEKRASOV, A.M.; SYROMYATNIKOV, I.A.; VOZNESENSKIY, A.N.; ~~VASILENKO, P.L.~~; LAUPMAN, P.P.; TERMAN, I.A.; VINOGRADOV, N.P.; ANTOSHIN, N.N.; ALEKSANDROV, B.K.; USPENSKIY, B.S.; KLASSON, I.R.; KHEYFITS, M.E.; DRUTSKIY, V.F.; KRACHKOVSKIY, N.N.; POPOV, P.A.; CHELIDZE, I.M.; FILARETOV, S.N.; KOZLOV, M.D.; BERLIN, V.Ya.; SARADZHEV, A.Kh.; GORDZIYEVICH, I.S.; PAK, V.P.; DORFMAN, S.M.; DUBINSKIY, L.A.; UL'YANOV, S.A.; GRUDINSKIY, P.G.; KUVSHINSKIY, N.N.; ERMOLENKO, V.M.

Mikhail Mikhailovich Karpov. Elek.sta. 27 no.10:62 O '56. (MLRA 9:12)
(Karpov, Mikhail Mikhailovich, d.1956)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

LIPKIND, Vera Mikhaylovna, kandidat tekhnicheskikh nauk; VASILENKO, P.I., professor, redaktor; KOZHARSKIY, A.D., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

[Concrete dams of hydroelectric power stations] Betonnye plotiny gidroelektrostantsii. Pod red. P.I.Vasilenko. Moskva, Gos. energ. izd-vo,1956. 246 p. (MLRA 9:7)
(Hydroelectric power stations)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, P.I., professor.

For further utilization of precast and reinforced concrete. Gidr. strei.25 no.3:1-7 Ap '56. (MIRA 9:9)

1.Glavnyy inzhener instituta "Gidroenergoproyekt" Ministerstva elektrostantsii.
(Precast concrete construction) (Hydroelectric power stations)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, P.I.

MALENKOV, G.M.; PERVUKHIN, M.G.; KUCHERENKO, V.A.; ZHIMERIN, D.G.; LOGINOV, F.G.; PAVLENKO, A.S.; YERMAKOV, V.S.; VINTER, A.V.; DMITRIYEV, I.I.; UGORETS, I.I.; BEKHTIN, N.V.; VOZNESENSKIY, A.N.; VASILENKO, P.I.; BOROVOY, A.A.; NOSOV, R.P.; ERISTOV, V.S.; BELYAKOV, A.A.; RUSSO, G.A.; VASIL'YEV, A.F.; REPKIN, V.P.; TERMAN, I.A; ORLOV, G.M.; CHUMACHENKO, N.A.; BESCHINSKIY, A.A.; YAROSH, V.F.

Pavel Pavlovich Laupman; obituary. Gidr. stroi. 26 no.5:62 My '57. (Laupman, Pavel Pavlovich, 1887-1957) (MLRA 10:6)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

SENKEVICH, Anton Aleksandrovich; MIKHAYLOV, V.N., dotsent; VASILENKO, P.I., prof., red.; LYUBCHENKO, B.M., dotsent, inzh., red.; VASILENKO, P.I., prof., red.; VOROHIN, L.P., tekhn.red.

[Using prestressed construction elements in building hydraulic structures; dams, sluices, pavements, linings, et cetera] Primenenie predvaritel'nogo napriazheniia v konstruktsiiakh gidrotekhnicheskikh sooruzhenii; plotiny, shliuzy, pokrytiia poverkhnostei i dr. Pod obshchei red. P.I.Vasilenko. Moskva, Gos.energ.izd-vo. (Materialy po proektirovaniiu gidroenergeticheskikh uzlov. Ser.4. Gidroelektrostantsii. Gidrotekhnicheskie sooruzheniia. Konstruktsii i materialy). Pt.2. 1960. 40 p. (MIRA 13:6)

1. Nachal'nik Sektora obmena opytom Otdela tipovogo proyektirovaniya i tekhinformatsii instituta "Gidroenergoproyekt" (for Mikhaylov).
(Prestressed concrete) (Hydraulic structures)
(Pavements, Concrete)

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VASILENKO, P.M.

Theory of the motion of material particles in rotational planes. Dop.AN URSR no.3:68-77 '49. (MIRA 9:9)

1.Chlen-korespondent AN URSR.
(Particles) (Motion)

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VASILENKO, P. M.

"Elements of the Theory of Stability of Motion of Trailer Agricultural Machines and Implements," Sb. tr. po zemledel'cheskoy mekhanike, No 2, pp 73-93, 1954

A considerable part of the work contains an exposition of well-known equations of the dynamics of a system. Solutions of three problems on the motion of a tractor trailer is offered. (Rzhmekh, No5, May 55)

Sum. No. 681, 7 Oct 55

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VASILENKO, P.M.

Wheel resistance in agricultural machinery. Nauch.trudy Inst.mash. i sel'khoz.mekh. AN URSR 4:3-13 '54. (MIRA 9:9)
(Agricultural machinery) (Wheels)

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VASILENKO, P.M.; KULAKOVS'KIY, V.O.

Theory of the topping mechanisms in beet-hatvesting machines. Nauch.trudy Inst.mash. i sel'khoz.mekh. AN URSR 4:51-60 '54.(MIRA 9:9) (Combines (Agricultural machinery))(Sugar beets--Harvesting)

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SPIVAK, M.S., glavnyy redaktor; BELOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVEL', A.G., redaktor; KRYLOV, A.F., redaktor; PUKHAL'SKIY, A.V., redaktor; SIDORENKO, A.P., redaktor; FEDCHENKO, A.N., redaktor; ANGELINA, P.N., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATSKAYA, G.Ye., redaktor; VASILENKO, A.A., redaktor; VLASYUK, P.A., redaktor; GORODNIY, N.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETSKIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNYY, M.Ye., redaktor; PERSHIN, P.N., redaktor; POPOV, F.A., redaktor; POSMITNYY, M.A., redaktor; PSHENICHNYY, P.D., redaktor; RADCHENKO, B.P., redaktor; ROMANENKO, I.N., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVSKIY, A.N., redaktor; TSYBENKO, K.Ye., redaktor; KOVAL'SKIY, V.F., tekhnicheskiy redaktor

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SPIVAK, M.S., golovnyy redaktor; BILOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', O.G., redaktor; KRILOV, O.F., redaktor; PUKHAL'S'KIY, A.V., redaktor; SIDORENKO, O.P., redaktor; FEDCHENKO, O.N., redaktor; ANGELINA, P.M., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATS'KA, G.E., redaktor; VASILENKO, A.O., redaktor; VLASYUK, P.A., redaktor; GORODNIY, M.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETS'KIY, F.., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNIY, M.O., redaktor; PERSHIN, P.M., redaktor; POPOV, F.A., redaktor; POSMITNIY, M.O., redaktor; PSHENICHNIY, P.D., redaktor; RADCHENKO, B.P., redaktor; POMANENKO, S.S., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVS'KIY, O.N., redaktor; TSIBENKO, K.O., redaktor; SHCHERBINA, O.P., redaktor; KRAVCHENKO, M.F., tekhnichniy redaktor

[Collective farm encyclopedia] Kolhospna vyrobnycha ensyklopediia. Vyd. 2-e, perer. i dop. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi lit-ry URSR. Vol.1. Abrykos - Liutserna. 1956. 756 p. (MIRA 9:9)
(Agriculture--Encyclopedias and dictionaries)

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VASILENKO, V.M.

SPIVAK, M.S., glavnyy red.; BELOZUB, V.G., red.; VASILENKO, P.M., red.; ZORIN, I.G., red.; IL'CHENKO, I.K., red.; KOVAL', A.G., red.; KRYLOV, A.F., red.; PUKHAL'SKIY, A.V., red.; SIDORENKO, A.P., red.; FEDCHENKO, A.N., red.; ANGELINA, P.N., red.; BUZANOV, I.F., red.; BOYKO, D.V., red.; BURKATSKAYA, G.Ye., red.; VASILENKO, A.A., red.; VLASYUK, P.A., red.; GORODNIY, N.G., red.; DEMIDENKO, T.T., red.; DUBKOVETSKIY, F.J., red.; KIRICHENKO, F.G., red.; LITOVCHENKO, G.P., red.; OZERNYY, M.Ye., red.; PERSHIN, P.N., red.; POPOV, F.A., red.; POSMITNYY, M.A., red.; PSHENICHNYY, P.D., red.; RADCHENKO, B.P., red.; ROMANENKO, I.N., red.; RUBIN, S.S., red.; SAVCHENKO, M.Kh., red.; SOKOLOVSKIY, A.N., red.; TSYBENKO, K.Ye., red.; KOVAL'SKIY, V.F., tekhn.red.

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VASILENKO, P.M., akademik.

Theory of the relationship between mass and speed in agricultural machinery. Dokl. akad. sel'khoz. 23 no.9:43-48 '58.

(MIRA 11:10)

(Agricultural machinery)

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VASILENKO, Petr Mefodiyevich; MEDVEDEV, M.I., akademik, red.; KOSOVSKIY, V.A., red.; MANOYLO, Z.T., tekhn. red.

[Theory of the movement of particles on rough surfaces of agricultural machines] Teoriia dvizheniia chastitsy po sherekhovatym poverkhnostiam sel'skokhoziaistvennykh mashin. Pod red. M.I.Medvedeva. Kiev, Izd-vo Ukr. akad. sel'khoz. nauk, 1960. 283 p. (MIRA 14:5)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Medvedev)
(Agricultural machinery) (Friction)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, P. M., akademik

Theoretical premises for the automation of farming operations.
Mekh. i elek. sots. sel'khoz. 20 no.6:30-34 '62.
(MIRA 16:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V. I. Lenina.

(Farm mechanization) (Automation)

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SINYAGIN, I.I., akademik, red.; BUZANOV, I.F., akademik, laureat Leninskoy premii, red.; MAZLUMOV, A.L., akademik, red.; MAYSURYAN, N.A., akademik, red.; VASILENKO, P.M., akademik, red.; ~~VASILENKO, P.M., akademik, red.~~; MANZHELIY, I.I., red.; GORELIK, L.Ya., red.; ANTONOVA, N.M., tekhn. red.

[Achievements of science and advanced practices in sugar beet growing] Dostizheniia nauki i peredovoi opyt po sveklovodstvu. Moskva, Sel'khozgiz, 1961. 403 p. (MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina. 2. Uchenyy sekretar' sektsii tekhnicheskikh kul'tur Otdeleniya zemledeliya Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Manzheliy).
(Sugar beet breeding)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, P.M., akademik

Some problems concerning the theory of vibration processes.
Mekh. i elek. sots. sel'khoz. 20 no.3:17-21 '62. (MIRA 15:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.

(Agricultural machinery)
(Vibration)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, P.M., akademik

Theoretical premises for automating farm production. Mekh. i elek. sots. sel'khoz. 21 no.4:16-19 '63. (MIRA 16:9)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. Lenina.
(Farm mechanization)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, P.M., akademik; VASILENKO, I.I., kand.tekhn. nauk; YESIPOVICH, M.N., red.

[Automation of the processes of agricultural production] Avtomatizatsiia protsessov sel'skokhoziaistvennogo proizvodstva. Moskva, Kolos, 1964. 383 p. (MIRA 18:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Vasilenko, P.M.).

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VASILENKO, P.M., doktor tekhn. nauk; KOROTKEVICH, P.S., aspirant

Effect of the form of the lateral profile of the cutting parts and the traveling speeding on their traction resistance. Trakt. i sel'khozmash. no.8:25-27 Ag '65. (MIRA 18:10)

1. Ukrainskaya sel'skokhozyaystvennaya akademiya.

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NIZHNIY, M.I.[Nyzhnii, M.I.], kand ekon. nauk; SEREDENKO, B.M., kand. tekhn. nauk; VASILENKO, P.V., nauchnyy sotr.; CHAYKOVSKIY, A.F.[Chaikovs'kyi, A.F.], otv. za vypusk; PALIYENKO, G.D. [Paliienko, H.D.], otv. za vypusk; ONOPRIYENKO, M.M. [Onopriienko, M.M.], red.; KVITKA, S.P., tekhn. red.

[Basic regulations on establishing work norms on collective farms] Osnovni metodychni polozhennia normuvannia pratsi v kolhospakh. Kyiv, Vyd-vo UASHN, 1961. 82 p. (MIRA 16:6)

1. Kiev. Ukrains'ka Akademiya sil's'kohospodars'kykh nauk. Ukrains'kyi naukovo-doslidnyi instytut ekonomiky i organizatsii sil's'koho hospodarstva. 2. Ukrainskiy naushno-issledovatel'skiy institut ekonomiki i organizatsii sel'skogo khozyaystva (for Nizhniy, Seredenko, Vasilenko). 3. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Chaykovskiy). 4. Nachal'nik otdela Ministerstva sel'skogo khozyaystva Ukr.SSR (for Paliyenko).
(Collective farms--Production standards)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

GORYACHKO, K.V., podpolkovnik meditsinskoy sluzhby; [illegible], podpolkovnik meditsinskoy sluzhby; GAPONYUK, P.I., podpolkovnik meditsinskoy sluzhby; SMIRNOV, P.I., mayor meditsinskoy sluzhby; VASILENKO, P.V., mayor meditsinskoy sluzhby

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1. Nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii, Sofiya.

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MEZHAKOV, Vasiliy Afanas'yevich; VASILENKO, Stepan Ivanovich; ASTAKHOV, A.V., otvetstvennyy red.; ALADOVA, Ye.I., tekhn. red.

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MEZHAKOV, Vasiliy Afanas'yevich; VASILENKO, Stepan Ivanovich; ASTAKHOV, A.V., otv. red.; SHKLYAR, S.Ya., tekhn. red.

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VASILENKO, Stepan Ivanovich; BOGUTSKIY, N.V., otv.red.; ABARBARCHUK, F.I., red.izd-va; MESHCHANKINA, I.S., tekhn.red.; LAVRENT'YEVA, L.G., tekhn.red.

[The Gorlovka winch for steep and inclined deposits] Lebedka LGKN; lebedka Gorlovskaia dlia krutykh i naklonnykh plastov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1962. 47 p. (MIRA 15:5)

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18.5100

77612
SOV/[illegible]

Sergey Iosifovich

AUTHORS: Osadchiy, V. Ya. (Candidate of Technical Sciences), Golubchik, R. M., Vasilenko, S. I., Zuyev, I. I., Shvedchenko, A. A., Kirvalidze, N. S. (Engineers)

TITLE: Improvement in Operation of Plug Rolling Mill [illegible] 400-mm Tube Rolling Installation

PERIODICAL: Stal', 1960, Nr 2, pp 136-139 (USSR)

ABSTRACT: The authors investigated power and speed rate [illegible] rolling by the plug mill process in an attempt [illegible] determine factors which would enhance productivity and improve tube quality, as follows: (1) Metal pressure on rolls was studied in plug mill [illegible] equipped with a 900 hp motor. The mill is [illegible] from the automatic stand and, consequently, rolls [illegible] tube at comparatively low temperatures. The [illegible] part of the grooved tapered rolls is 91 mm long. Pressure gages installed between housing screws [illegible] roll pads and oscillograph MPO-[illegible] were used. [illegible] of various sized and steels (see Table A) [illegible] perimentally rolled. The steel composition [illegible]

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Improvement in Operation of Plug Rolling Mills of 400-mm Tube Rolling Installation

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SOV/133-60-[illegible]

Table A. Roll pressure and coefficient of axial slip in tube rolling. (A) Pipe sizes (mm): (1) finished, (2) after automatic mill, (3) after plug mill; (B) designation of steel; (C) mandrel diam (mm); (D) number of rolled tubes; (E) mean full metal pressure on roll (tons); (F) coefficient of axial slip (η_x); (G) mean specific pressure on roll (kg/mm^2); (H) starting and finishing temperature (°C).

A			B	C	D	E *	F	G	H
1	2	3							
146×7	153×7	162×7	D	145	4	12,0	0,65	10,4	—
146×9	153×9	162×9	D	141	5	13,2	0,88	11,4	—
146×12	154×12	162×12	D	135	4	15,2	0,94	12,7	—
245×7	242×7	255×7	10—20	237	4**	18,0	0,47	15,6	860/835
					5***	13,5	0,90	9,7	880/835
245×8	242×8	255×8	45	235	4	13,5	0,52	11,0	935/905
245×10	242×10	255×10	20	231	7	16,0	0,75	10,5	965/935
245×12	242×12	255×12	20	227	4	19,0	0,60	13,5	960/930
245×12	242×12	255×12	45	227	4	15,0 (22,5)	0,53	11,5	980/950
245×17	242×17	254×17	10	217	4	20,5	0,56	12,6	1000/985

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SOV/133-[illegible]

Table A (cont'd)

A			B	C	D	E*	F	G	H
1	2	3							
245×18	242×18	254×18	20	215	4	26,0	—		990/950
245×23	243×23	252×23	45	206	5	27,0	—		980/950
245×24	243×24	252×24	45	204	4	23,0	—	—	981/950
273×7	266×7	280×7	20	262	6	14,0 (18)	0,59	11,8	870/840
273×9	266×9	280×9	10--20	258	6	16,5 (18,5)	0,62	10,8	940/850
273×9	266×9	280×9	15 KhM	258	6	18,7 (22)	0,39	15,7	930/830
273×10	266×10	280×10	20	256	5	17,8 (22,5)	0,60	10,2	960/830
273×14	267×14	279×14	20	248	4	17,2 [32]	0,65	10,5	920/890
273×17	268×17	279×17	20	242	5	20,0	0,51	12,0	1020/960
273×20	268×20	279×20	20	236	5	18,7	—	—	960/940
273×20	268×20	279×20	45	236	5	19,5 (26,5)	—	—	1010/960
273×22	268×22	279×22	12XMF	232	5	16,3	—	—	930/960
273×38	270×38	277×38	20	199	4	23,2	0,75	12,2	1110/1055
273×39	270×39	277×39	12XMF	197	4	15,8 (21)	0,65	9,0	1120/1090
273×42	270×42	277×42	20Tu	191	5	22,2	0,69	13,1	1060/1030
273×44	270×44	277×44	40Kh	187	6	25,0 [36]	0,70	14,5	1085/1060
273×45	270×45	277×45	20	185	7	20,0 (27,5)	0,67	12,5	1070/1040

*Parentheses--peaks at biting period; brackets--peaks during jamming of tube
**Without salt
***With salt

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Improvement in operation of [illegible] Rolling [illegible]
Mills of [illegible] Tube Rolling Installation [illegible]

Jamming of the tube at the site of [illegible] caused by improper setting up of the [illegible] found to represent a potential [illegible] parts. Pressure in that case was [illegible] normal pressure exerted during the [illegible] the authors failed to establish [illegible] between metal pressure on the [illegible] and tube diameter and effects of the [illegible] composition of steel on the other. [illegible] increases (see Table A) so does the [illegible] on the rolls. This pressure increase [illegible] be a decisive factor at the initial [illegible] slip. With an increasing coefficient of [illegible] the pressure on the rolls increases [illegible] the greater reduction of metal during the [illegible] of the tube. After reaching a maximum [illegible] gradually falls off despite further in[illegible] wall thickness; this is due to the decreased coefficient of axial slip and higher temperature of the tube. (2) Axial slip is of major technology importance in mill productivity and in power [illegible]

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speed rates of metal deformation. The authors determined axial speed by measuring the time required for the front end of the tube to travel through a certain section on delivery guides. These coefficients decrease with increased tube diameters due to impaired biting conditions and rolling process as a result of the greater tube-roll diameter ratio. (3) Mean specific pressure was calculated from:

$$p_m = \frac{P_{def}}{F} = \frac{P_r - P_b}{F}. \qquad (2)$$

where P_{def} = force or plastic deformation in reduction as it affects area of contact F; P_r = total force acting on roll in plane perpendicular to the axis of rolling; P_b = bending force exerted by pressing tubes between rolls. P_b is found from equation:

$$P_b = 2\eta_b \frac{\sigma_s h^2}{d_{ot} - h} l_b, \qquad (3)$$

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Improvement in Operation of Plug Rolling Mills of 400-mm Tube Rolling Installation

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where η_b = 2.1-2.4 is coefficient of the effect of outer tube ends on bending force; σ_s = yield point; h = thickness of metal under rolls; d_{ot} = outside diameter of rolled tube; l_b = length of tube under action of rolls. Experimental data revealed that the difference between the mean specific pressure obtained by dividing the full pressure of metal on rolls by the area of contact and the mean specific pressure of reduction calculated from Eq. (2) ranges between 10 and 20% (see Table A). In designing new mills the authors suggest calculating the full pressure of metal on the rolls by either utilizing (a) the mean specific pressure or (b) the "pressure of reduction" increased by 10-20% and determined by a method of Bur'yanov, V. F. ("Force Originating in Tube Rolling in Plug Mill," in collected articles, "Working of Metals by Forces of Pressure," Issue IV, Metallurgizdat, 1956) and Smirnov, V. V. ("Determination of Forces and Moments in Tube Rolling in Plug Mill," in collected articles

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

Improvement in Operation of Plug Rolling Mills of 400-mm Tube Rolling Installation

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same as above). (4) Various types of lubricants were tested in order to reduce rolling time by decreasing the slip between metal and rolls. As seen from Table A the coefficient of axial slip is considerably increased by spraying the inside of the tube with NaCl before rolling. However, NaCl promotes the escape of gas and enhances corrosion. A mixture consisting of one part salt, one part graphite, and three parts air-dried scale decreased slip by 1.17 times and contaminated the working area considerably less than NaCl. Rolling process was much more stable and mandrel wear decreased. The authors emphasize that the use of the proper lubricant cuts rolling time from 20 to 30%. For more efficient operation of the plug mill the authors recommend: (1) improving roll pass design and make; (2) establishing optimal setting up parameters; (3) systematic use of lubricant. There are 2 figures; 1 table; and 5 Soviet references.

ASSOCIATION: Moscow Steel Institute (Moskoviskiy institut stali), Southern Pipe Plant (Yuzhnotrubnyy zavod)

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VASILENKO, Sergey Iosifovich

AKIMOVA, Ye.P.; RUDOY, V.S.; SHEVCHENKO, L.N.; NESTEROVA, N.N.; Prinimali uchastiye: VASILENKO, S.I.; ZUYEV, I.I.; VIL'YAMS, O.S.,; LAGUTINA, R.V.; DERGACH, A.Ya.; KITANENKO, V.P.; KIRVALIDZE, N.S.; YAKIMENKO, N.S.; SAMOYLENKO, V.D.

Effect of the method of manufacturing EI847 steel on the quality of tubes. Stal' 21 no.12:1113-1114 D '61. (MIRA 14:12)

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(Steel, Stainless—Electrometallurgy)
(Pipe mills—Quality control)

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VASILENKO, S.K.; BABKINA, G.T.

Isolation and properties of the cobra venom nuclease. Biokhimiia 30 no.4:705-712 Jl-Ag '65. (MIRA 18:8)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

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BRICHUK, P.F.; VASILENKO, S.K.

Throughout the Soviet Union. Veterinariia 35 no.8:95-96 Ag '58.
(Veterinary medicine) (MIRA 11:9)

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VASILENKO, S.K.; KAMZOLOVA, S.G.; KNORRE, D.G.

Direct spectrophotometric method for the quantitative determination of the nucleotide composition of ribonucleic acids. Biokhimiia 27 no.1:142-148 Ja-F '62. (MIRA 15:5)

1. Institute of Organic Chemistry, the Siberia Branch of Academy of Sciences of the U.S.S.R., Novosibirsk.
(NUCLEOTIDES) (SPECTROPHOTOMETRY) (NUCLEIC ACIDS)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, S.K.

Isolation of phosphodiesterase and phosphomonoesterase from the venom of Vipera lebetina by chromatography on sulfoethyl cellulose. Biokhimiia 28 no.4:602-605 Jl-Ag '63. (MIRA 18:3)

1. Institut organicheskoy khimii AN SSSR, Novosibirsk.

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mechanism of the action of the enzyme [illegible] were

[illegible]

[illegible] Akademii Nauk

NO REF SOV: 033 OTHER: 019 [illegible]

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L 3389-66 EWT(1)/EWA(j)/EWA(b)-2 RO

ACCESSION NR: AP5021650 UR/0218/65/030/004/0705/0712

577.155.2

AUTHOR: Vasilenko, S. K.; Babkina, G. T.

TITLE: Isolation and properties of ribonuclease from cobra venom

SOURCE: Biokhimiya, v. 30, no. 4, 1965, 705-712

TOPIC TAGS: toxicology, ribonucleic acid, chemical kinetics, enzyme, magnesium, hydrolysis

ABSTRACT: Ribonuclease from the venom of the cobra (Naja oxiana) was isolated by chromatography on sulfoethylcellulose, filtered on Sefadekse G-25, and then isolated again by chromatography on DEAE cellulose. In all tests, the chromatography was carried out at 2C and the albumen concentration was determined by growth in the optical density of the ribonuclease during hydrolysis. The kinetics of the enzyme hydrolysis of the ribonuclease were studied by potentiometric titration. 100 fold purification of the enzyme was achieved by three chromatographic treatments. With phosphodiester hydrolysis of the products of ribonuclease hydrolysis the products are mononucleotides, while with alkali hydrolysis they are

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ACCESSION NR: AP5021650

nucleosides, mononucleotides, and nucleoside diphosphates. It can therefore be assumed that nuclease from cobra venom catalyzes the breaking of the bond between the phosphorous and the third hydroxyl group of the ribose precipitate. The enzyme is specific only to ribonuclease, is activated by magnesium ions, and has an optimum pH of 7.6-7.8. 100% thermal inactivation of the enzyme is achieved by incubating it at 70C for 5 min. "The authors express their deep thanks to D. G. Knorr for his valuable advice in carrying out the work." Orig. art. has: 7 figures and 2 tables

ASSOCIATION: Institut organisheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR, Novosibirsk (Institute of Organic Chemistry of the Siberian Branch of the AN SSSR)

SUBMITTED: 27Jul64 ENCL: 00 SUB CODE: LS

NR REF SOV: 005 OTHER: 002

Card 2/2

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, S.K.; DEMUSHKIN, V.P.; BUDOVSKIY, E.I.; KNORRE, D.G.

Determination of nucleotide sequence in oligonucleotides.
Dokl. AN SSSR 162 no.3:694-697 My '65. (MIRA 18:5)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR i Institut khimii prirodnykh soyedineniy AN SSSR. Submitted August 4, 1964.

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ALTUNINA, V.K.; VASILENKO, S.K.; KORZHEV, V.A.; SANDAKHCHIYEV, L.S.

Isolation and characteristics of soluble RNA from brewer's yeast. Biokhimiia 29 no. 1:53-57 Ja-F '64. (MIRA 18:12)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted March 21, 1963.

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SMIRNOVA, M.F., starshiy nauchnyy sotrudnik; SHAYKHET, G.Kh., mladshiy nauchnyy sotrudnik; SEREDA, V.N., mladshiy nauchnyy sotrudnik; VASILENKO, S.M., mladshiy nauchnyy sotrudnik

Studying outbreaks of acute fever diseases caused by a virus of the Coxsackie group. Vrach.delo no.9:943-949 S '57. (MLRA 10:9)

1. Virusnaya laboratoriya (zav. - starshiy nauchnyy sotrudnik M.F. Smirnova) Kiyevskogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii
(COXSACKIE VIRUSES)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

21(8),24(7)

AUTHORS: Antonova, S. F., Vasilenko, S. S., Kaganskiy, M. G., Kaminskiy, D. L.

SOV/56-37-3-13/62

TITLE: The Positron Spectrum of Eu^{152} and Eu^{152m}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 37, Nr 3(9), pp 667-671 (USSR)

ABSTRACT: In connection with the well-known considerable variation of the shape of the nucleus in the case of a change of the neutron number in the nucleus from N = 88 to N = 90, an investigation of the radioactive Eu^{152} and its isomer Eu^{152m} in the decay of which ${}_{62}Sm^{152}_{90}$ and ${}_{64}Gd^{152}_{88}$ are formed, is of interest. The present paper deals with the experimental investigation of the positron spectrum of these isotopes. The experimental order is schematically represented by figure 1, and is discussed in the introduction. For the purpose of measuring the spectrum, a magnetic sector spectrometer with double focusing and low background was used. Results are shown by figure 3. The curve has two salient points, one at H_ρ = 1920 G.cm and one at 2460 G.cm, which are caused by the internal pair

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conversion of γ-quanta having the energies 1280 and 1409 kev. Also partial β^+-spectra are plotted (β^+-groups (713±3) kev and (470±10) kev); the intensities are $1.4 \cdot 10^{-4}$ and $5 \cdot 10^{-5}$ β^+ per decay. Figure 4 shows the decay scheme. The β^+-decay of Eu^{152} takes place to the first (2^+) and the second (4^+) excited states of Sm^{152}; the half life of β^+-radiation is given as amounting to about 10 a. The formation of Sm^{152} in the ground- and first excited state occurs in the positron decay of the Eu^{152m} isomer. The end point energies of the partial spectra are 890 and 770 kev (intensities: $6 \cdot 10^{-5}$ and $2 \cdot 10^{-5}$ per decay). The excitation energy of the Eu^{152} isomer determined from the difference between the end point energies is given as amounting to 55±6 kev. From the internal pair conversion spectra the conversion coefficients Γ and the multipolarities of a number of γ-transitions are determined. Figure 5 shows the dependence of the pair conversion coefficient on the energy and the

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multipolarity of the transition. The value $\Gamma = (1.6 \pm 0.2) \cdot 10^{-4}$ corresponds to a E1-transition, the value $\Gamma = (0.8 \pm 0.2) \cdot 10^{-4}$ corresponds to a transition with 1280 kev (E1). Further details are discussed. Figure 6 shows the positron spectrum of Eu^{152m}, which has a half-life of only 9.2 h. The value $\Gamma = (0.6 \pm 0.3) \cdot 10^{-4}$ corresponds to a E2-transition (1386 kev). In a table the results obtained by the authors are compared with those obtained by Alburger et al. (Ref 3). Agreement is good. The authors finally thank Professor L.A. Sliv for his interest. There are 7 figures, 1 table, and 8 references, 4 of which are Soviet.

SUBMITTED: April 18, 1959

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

ANTONOVA, S.F.; VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Positron decay of Ir^{192}. Zhur.eksp.i teor.fiz. 38 no.2:379-383 F '60. (MIRA 14:5)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR.
(Positrons) (Iridium--Decay)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.; KOKSHAROVA, S.F.

Formation of mono-energetic positrons during the decay of Eu^{152}. Zhur. eksp. i teor. fiz. 39 no.4:970-972 O '60. (MIRA 13:11)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR.
(Positrons) (Europium--Decay)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Magnetic spectrometer for investigating faint positron spectra. (MIRA 14:10)
Prib.i tekh.eksp. 6 no.5:42-44 S-O '61.

1. Fiziko-tekhnicheskiy institut AN SSSR.
(Spectrometer)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

S/048/61/025/001/011/031
B029/B060

24.6510

AUTHORS: Vasilenko, S. S., Kaganskiy, M. G., Kaminskiy, D. L., and Koksharova, S. F.

TITLE: Internal conversion with pair production in the Ta^{182} decay

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 1, 1961, 61-67

TEXT: A study has been made of transitions with an energy of over $2mc^2$ using data of internal conversion with pair formation. As may be seen from Fig. 1, transitions with such energies take place through the energy gap. Transitions between the rotational bands with $K = 2^-$ and $K = 0^+$ are of particular interest (see Fig. 1). Experimental data do not contradict an emission of the type E3, E1 + M2 (predominantly E1), and even mixture E1 + M2 + E3 is admissible. The multipolarity was determined by the method devised by S. F. Antonova et al. (Ref. 8). In some cases, also mixed transitions can be analyzed by this method. In FB and HB transitions emissions of the E1, M2, and E3 are possible, in agreement

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89245

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B029/B060

Internal conversion with pair production ...

with the selection rules for spin and parity. In this case, the composition of radiation cannot be determined unequivocally from the intensity values of gamma transitions or from the conversion line data. The composition of radiation can be, however, determined from the data of internal conversion with pair formation. Three formulas are written down for this purpose. The authors determined the spectrum of the positrons of the pair conversion and the spectrum of the conversion electrons. The data of the relative intensity of gamma rays were taken from the paper by N. Voynova, B. S. Dzhelepov, N. N. Zhukovskiy (Ref. 9). The internal conversion with pair formation is very weak in the Ta^{182} decay. Fig. 2 illustrates the spectrum of the positrons. If E_+ denotes the energy corresponding to half the drop of the positron spectrum curves, $E_\gamma = E_+ + 2mc^2$. The energies of gamma transitions established in this manner are listed in a Table. The intensity of the positron spectra of individual gamma transitions must be known in order to be able to determine the multipolarity of transitions. In case of a low transition energy the distribution of the positrons is equally large for the transitions of the E1, E2, and M1 types. As an example, Fig. 2 shows the

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B029/B060

Internal conversion with pair production ...

partial spectra caused by transitions with 1122, 1188, 1222, and 1231-kev energies. Fig. 3 shows the spectra of conversion electrons of Ta^{182}. The relative intensities of the K conversion lines and the corresponding partial spectra of positrons are listed in a Table. The lines of conversion electrons K1256 and (M+N)1189 are not separated. The multipolarities found for the transitions are as follows: 1122 kev: the value of $(\Gamma/a_k)_{exp}$ corresponds to a radiation of the E2 type. The M1 admixture must be small. The 1188-kev transition is a mixed one. An E1 radiation must take part in the FB transition. 75% E1 + (25±8)% M2 is found. The 1222-kev transition has, according to data available in the literature, an E2 multipolarity. Furthermore: 1231 kev - E2 with slight M1 admixture, 1256 kev - probably E1. 1275 kev: according to experimental data available, 80% E1 + 20% M2 fits best. The multipolarity of the 1290-kev transition can be of the M2, E3, or of an even higher type. The probability of E1 transitions from the F level is considerably smaller than the probability of the single-proton transition according to Weisskopf. The portion of E3 radiation in the FB transition amounts to no

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Internal conversion with pair production ...

more than 20%. Therefore, the probability of the E3 transition cannot be more than four times as high as the probability of the single-particle transition. L. A. Sliv and I. M. Band are mentioned. The article under consideration is the reproduction of a lecture delivered at the 10th All-Union Conference on Nuclear Spectroscopy, which took place in Moscow from January 19 to 27, 1960. There are 3 figures, 1 table, and 14 references: 7 Soviet-bloc.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk SSSR (Institute of Physics and Technology, Academy of Sciences USSR)

Legend to the Table: Transition multipolarities in W^{182}. 1) transition energy, kev; 2) results yielded by the work under consideration; 3) data by Backstrom, Ref. 12; 4) intensity of the K line; 5) intensity of the positron spectrum; 6) calculated; 7) experimental; 8) type of emission.

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Internal conversion with pair production ...

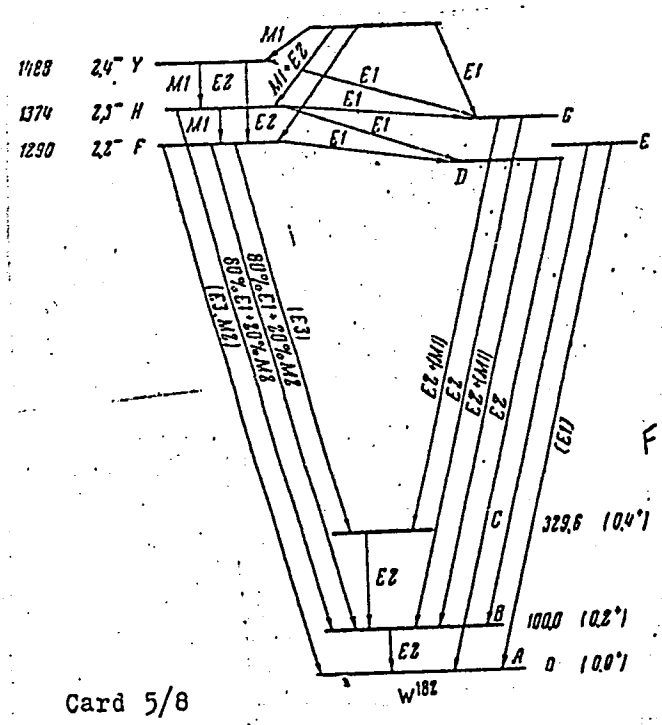

FIG. 1

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Internal conversion with pair production ...

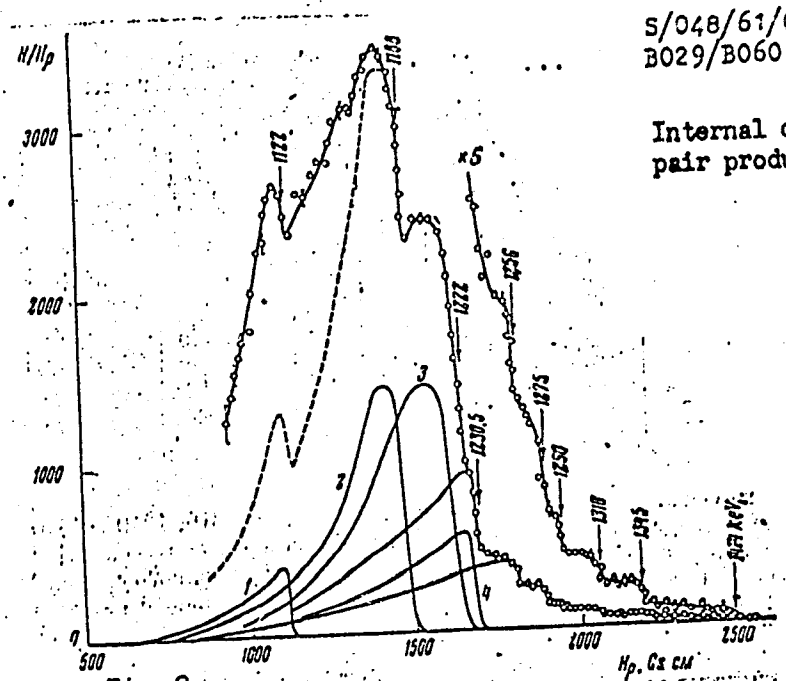

Fig. 2

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Internal conversion with pair production ...

Определение мультипольности переходов в W^{182}.

Энергия переходов, keV 1		4 Интенсивность K-линий S_K	5 Интенсивность спектров позитронов S^+	$(\Gamma/\alpha_K)\cdot 10^{6}$				8 Тип излучения
2 Наши данные	3 Бенстрем [12]			6 расчет			7 эксперимент	
				E	E2	M1		
1122	1121,6	140	16	2,90	0,38	0,11	0,32	E2
1188	1189,4	86	75	11,4	1,60	0,45	2,50	75%E1+25%M2
1222	1220	100	100	21,0	2,80	0,82	2,80	E2
1231	1231	35	36	23,0	3,10	0,94	2,90	E2
1256	1254	2,5	14	32,0	4,25	1,40	16,0	[E1]
1275	1273	3,3	13	41,0	6,2	2,15	11,0	80%E1+20%M2
1290	1289	20,0	5,5	49,5	7,9	2,40	1,0	M2
1310	—	—	4,0					?
1340	—	—	3,6					?
1410	—	—	2,3					?

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Internal conversion

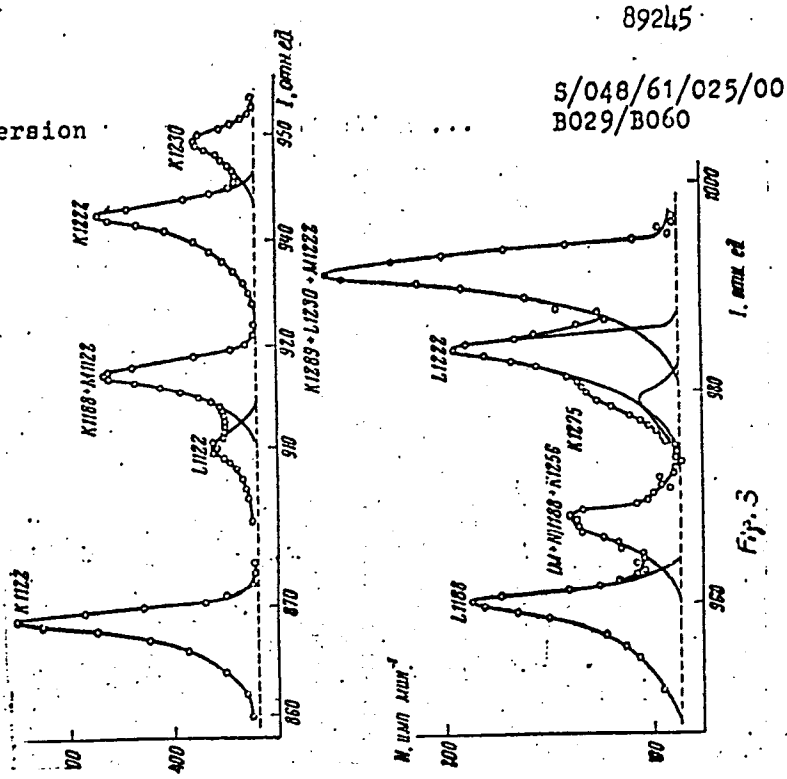

Fig. 3

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S/048/62/026/008/015/028
B104/B102

AUTHORS: Badalov, N. B., Vasilenko, S. S., Kaganskiy, M. G., and Kaminskiy, D. L.

TITLE: Ag^{110*} positron spectrum

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 8, 1962, 1042 - 1045

TEXT: The positron spectrum was studied using a double-focusing β-spectrometer which gave a resolving power of 1.8% at a solid angle of 1.2% of 4π. The Ag^{110*} source was supplied by thermal-neutron irradiation from metallic silver of natural isotopic composition. Sources of 0.6 - and ~6 mg/cm^2 thicknesses were used. The spectrum mainly consists of positrons produced in internal conversions giving γ-quantum pairs with energies of 1380, 1480, 1500, and 1560 kev. In the hard part of the spectrum, it was possible to separate out positrons derived from transitions at 1780 and 1930 kev. Transitions with energies of 1650 and 1880 kev are supposed. The multiplicities of the most important transitions were determined from the ratio of the pair conversion coefficient to the electron conversion coefficient

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(Table 2). It is proved that the 1597-kev transition detected by the authors occurs to the ground state. There are 2 figures and 2 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

Table 2.

E_γ, keV	$\Gamma_n \times 10^4$						
	E1		E2		E3	M1	M2
	Z = 0	Z = 84	Z = 0	Z = 84	Z = 0		
1380	1,05	0,94	0,52	0,34	0,19	0,24	0,07
1480	2,64	1,46	0,82	0,60	0,27	0,42	0,10
1500	2,80	1,66	0,90	0,68	—	0,48	—
1560	3,2	1,92	1,12	0,80	0,42	0,60	0,22
1780	4,80	3,40	2,00	1,52	0,82	1,08	0,60
1930	5,88	4,46	2,72	2,00	1,20	1,56	0,80

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ANTONOVA, S.F.; VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Investigating the gamma spectrum of Ce^{140}. Zhur.eksp.i teor.fiz. 38 no.3:765-767 Mr '60. (MIRA 13:7)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR.

(Gamma rays) (Cerium—Isotopes)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

84394

S/056/60/039/004/012/048
B004/B070

24.6720

AUTHORS: Vasilenko, S. S., Kaganskiy, M. G., Kaminskiy, D. L., Koksharova, S. P.

TITLE: The Problem of the Formation of Monoenergetic Positrons in the Decay of Eu^{152} /9

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 4(10), pp. 970-972

TEXT: According to the calculations of Professor L. A. Sliv (Ref. 1), an electron - positron pair may be formed when an excited nucleus in whose electron shell an electron is missing makes a transition from a level with $E > 2\ mc^2$ to the normal state. The electron occupies the vacancy in the shell, only the positron is emitted. All positrons produced in this process must have the same energy $E_m = E_\gamma - 2mc^2 + E_{sh}$ (1) (E_γ = transition energy, E_{sh} = binding energy of the electron in the shell). The probability of the formation of monoenergetic positrons is

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

84394

The Problem of the Formation of Monoenergetic Positrons in the Decay of Eu^{152}

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B004/B070

expressed by $w_m = w_D w_i \Gamma_\gamma / \Gamma_k$ (2) (w_D = probability of the formation of a pair with monoenergetic positron, w_i = probability of the formation of an unoccupied level in the electron shell of the excited atom, Γ_k = width of the atomic level, Γ_γ = width of the excited nuclear level). The lifetime of nuclei in an excited state with $E > 2mc^2$ may be calculated from (2). The authors attempted to establish the appearance of monoenergetic positrons in the decay of Eu^{152}. Fig. 1 shows the decay scheme $Eu^{152} \longrightarrow Sm^{152}$. The transition energy leading to the excitation of 1531-kev level of Sm^{152} is nearly 330 kev. Therefore, the authors looked for those monoenergetic positrons which are emitted on the capture of the electron of the pair in the K-shell and whose energy must be 434 kev according to equation (1). The radioactive source was europium oxide in the natural isotropic proportion and irradiated by thermal neutrons. Fig. 2 shows the positron spectrum of $Eu^{152,154}$ decay; Fig. 3 shows the spectral region in which the line of monoenergetic positrons must lie. No well defined effect could be established. However, an estimate of the upper limit of the intensity may be made from the experimental data.

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84394

The Problem of the Formation of Monoenergetic Positrons in the Decay of [illegible]

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B004/B070

A comparison of the intensity I_p of the inner conversion positrons with the intensity I_m of the monoenergetic positrons gives the value $I_p/I_m = 3000$ (3). From the known inner conversion coefficient, $w_m \leqslant 1.3 \cdot 10^{-8}$ was obtained for the monoenergetic positrons. Thence, $\Gamma_\gamma \leqslant 0.1$ ev and the lifetime $T_\gamma \geqslant 10^{-14}$ sec were calculated after equation (2). There are 3 figures and 4 references: 2 Soviet, 1 US, and 1 Swedish.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Institute of Physics and Technology of the Academy of Sciences, USSR)

SUBMITTED: May 21, 1960

Card 3/3

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

S/056/63/044/001/006/067
B108/B180

AUTHORS: Badalov, N. B., Vasilenko, S. S., Kaganskiy, M. G., Kaminskiy, D. L., Nikitin, M. K.

TITLE: Positron decay of Re^{182}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 1, 1963, 35 - 40

TEXT: Two rhenium isomers with the half lives of 13 and 64 hr were obtained in the reaction $Ta^{181}(\alpha,3n)Re^{182}$ after chemical processing (purification) of the reaction product. These two isomers show positron emission during their $Re^{182} \rightarrow W^{182}$ decay, with intensities of $\sim 3\cdot10^{-3}$ and $5\cdot10^{-6}$ positrons per decay event, for the short and long-lived isomer, respectively. Analysis of the β-spectrum of the short-lived isomer by means of a Fermi graph showed two branches of β^+-decay with threshold energies of 550 ± 20 kev and 1740 ± 20 kev and the relative intensities of $0.6\cdot10^{-3}$ and $1.8\cdot10^{-3}$ positrons per decay event. The total energy of the $Re^{182} \rightarrow W^{182}$ transition is 2860 ± 20 kev. The positrons are due mainly to internal

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

Positron decay of Re^{182}

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B108/B180

conversion with pair production during the electromagnetic transitions accompanying the electron capture in Re^{182}. The low β^+-decay intensity of the long-lived isomer is attributed to K-forbiddenness. There are 5 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

SUBMITTED: June 29, 1962

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

S/048/63/027/002/015/023
B104/B180

AUTHORS: Badalov, N. B., Vasilenko, S. S., Kaganskiy, M. G., and Kaminskiy, D. L.

TITLE: Internal conversion with pair production in the Br^{82} decay

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 2, 1963, 258 - 259

TEXT: The positron spectrum produced by internal conversion with pair production in the decay of Br^{82} was measured with a spectrometer having an aperture ratio of 1.2% of 4π and a resolution of 1.2%. The Br^{82} source was obtained by irradiating $^{79}gBr_2$ powder with thermal neutrons, after which a thin layer (5μ) was deposited on an Al foil. Results are given in Figs. 1 and 2 and in the Table. In the small energy range the two components (Fig. 1) differ considerably from experimental data. This is due to the relative thick source (2-3 mg/cm^2). There are 2 figures and 1 table.

Card 1/3

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

Fig. 1. Positron spectrum of Br^{82}.
Legend: (a) Component corresponding to the 1478 kev transition; (b) Component corresponding to the 1313 kev transition; (c) Sum of the two components.

Fig. 2. Br^{82} conversion lines.

Fig. 1

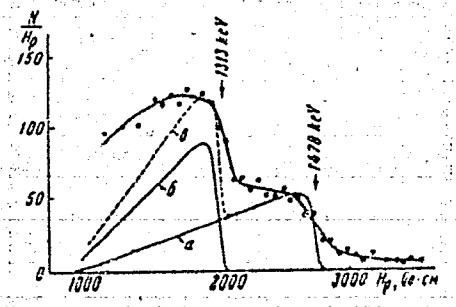
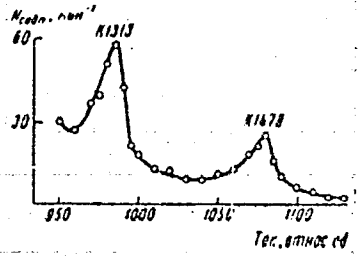


Fig. 2



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Internal conversion with...

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B104/B180

Table. Comparison of the experimental and calculated values of Γ/α_K.
Legend: (1) Intensities; (2) $(\Gamma/\alpha_K)_{calc}$; (3) $(\Gamma/\alpha_K)_{exp}$; (4) Multipole order.

Table

E_γ, keV	(1) Интенсивность, 10^{-4} выигр. на распад	(2) $\left(\frac{\Gamma}{\alpha_K}\right)_{расч}$			(3) $\left(\frac{\Gamma}{\alpha_K}\right)_{эксп}$	(4) Мультипольность
		E1	E2	M1		
1313	0,770	0,78	0,13	0,08	0,11	E2, M1
1478	0,635	1,98	0,42	0,26	0,27	E2, M1

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BADALOV, N.B.; VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Internal conversion with pair formation in As^{76}. Izv.AN SSSR. Ser.fiz. 27 no.2:260-262 F '63. (MIRA 16:2)

1. Fiziko-tekhnicheskiy institut AN SSSR.
(Internal conversion (Nuclear physics))
(Arsenic isotopes--Decay)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

L 34480-66 EWT(m)

ACC NR: AP6016808 (N) SOURCE CODE: UR/0367/66/003/001/0013/0016

AUTHOR: Belyayev, B. N.; Vasilenko, S. S.; Gvozdev, V. S.; Grigor'yev, V. N. 36 35

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences, SSSR (Fiziko-tekhnicheskiy institut Akademii nauk SSSR) B

TITLE: Conversion transitions with pair production in Ge^{72} /9

SOURCE: Yadernaya fizika, V. 3, no. 1, 1966, 13-16

TOPIC TAGS: germanium, gallium, positron, electron positron pair, electron transition, Gamma transition, neutron bombardment, dipole interaction, ISOTOPE, SPECTRUM ANALYSIS

ABSTRACT: The authors measured, for the first time, the spectrum of the positrons produced in the decay of Ga^{72}. This has made it possible to determine the hitherto unknown multipolarities of a number of transitions with energies larger than $2mc^2$ from the pair-conversion coefficients. The positron momentum distribution was measured with the aid of a double-focusing spectrometer described by one of the authors earlier (Vasilenko, with M. G. Kaganskiy and D. L. Kaminskiy, PTE no. 5, 42, 1961). The decaying Ga^{72} was obtained with the aid of the (n, γ) reaction by bombarding gallium oxide with thermal neutrons for 24 hours. Positrons corresponding to γ transitions with energies 2510, 2490, 2465, 2400, 2200, 2120, and 1865 kev were observed. The positron spectrum had a complex form. The main part constituted the positrons due to the most intense γ transitions (2200, 2490, 2510 kev), of which the 2200-kev transition corresponds to dipole radiation and is identified as E1. The

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L 34480-66

ACC NR: AP6016808

multipolarities of the 2510 and 2490 kev transitions were also identified as E1. On the basis of the obtained multipolarity for the 2200-kev transition, the spin and parity of the 3050-kev level is identified as 2^-. The 2400-kev transition is tentatively identified as E0, although the place of this transition in the level scheme is still undecided. The authors thank M. G. Kaganskiy for a discussion of the results. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 31Jun65/ ORIG REF: 005/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

BELIKOV, Ye.F., dotsent; VASILENKO, S.S., inzh.; KOLOSOV, B.A., dotsent, retsenzent; VORONIN, V.A., inzh., retsenzent; FILONENKO, A.S., prof., red.; KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Engineering surveying in planning and constructing hydroelectric power stations] Inzhenerno-geodezicheskie raboty pri proektirovanii i stroitel'stve gidroelektrostantsii. Pod red. A.S.Filonenko. Moskva, Izd-vo geodez.lit-ry, 1960. 172 p. (MIRA 13:7)
(Surveying) (Hydroelectric power stations)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, SV.

5 copies

240

Sofia, Khigiena, Vol 4, No 6, Nov-Dec 61 (continued)

10. "The Efficiency of Disinfection by Means of Formalin Aerosol," D. [illegible] and Sv. VASILENKO of the Scientific-Research Institute of Epidemiology and Microbiology; pp 43-45.

11. "An Attempt to Determine the Propensity of the Macedonian Ground Squirrel (Citellus Citellus) to Conserve P. Pursetti During the Lethargic State;" Fl. [illegible] of the VVMI (Vissh Voenno-Meditsinski Institut; Higher Military Medical Institute), Chair of Military Epidemiology and Hygiene (Katedra Voenna Epidemiologiya i Khigiena); pp 47-50.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, S.V.

Marine algae new to the coastal areas of the Maritime Territory (Sea of Japan). Bot. mat. Otd. spor. rast. 14:94-107 Ja'61. (MIRA 17:2)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

CHAPLITSKAYA, V.L.; SELIVANOV, N.P., MURASHOV, Yu.S.; VASILENKO, S.V.

Plastic foams for lightweight roofs of industrial buildings.
Stroi. mat. no.11:29-30 N '65. (MIRA 18:12)

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

VASILENKO, T.; SUSHKO, A.

Against unnecessary links in the wholesale trade. Sov. torg. 33 no.6:39-43 Je '59. (MIRA 12:8)
(Wholesale trade)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

ACC NR: AP7004932 SOURCE CODE: UR/0315/66/000/010/0017/0018

AUTHORS: Vasilenko, T. (Section head); Galimova, S. (Senior research associate)

ORG: [Vasilenko] SIF

TITLE: Development of an IPS (Information Punched-Card System) for the dairy industry

SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 10, 1966, 17-18

TOPIC TAGS: punched card, information center, information storage and retrieval, AGRICULTURE SCIENCE

ABSTRACT: A punched-card system is proposed for the dairy and meat industry of the Kirghiz Republic. All published and unpublished materials will be in the six card files. Format K-5 cards will be used. Card file No. 2, which is on cheese production, is described in detail. The numbers from 0-9, respectively, will denote: milk preparation, curd treatment, shaping-pressing, packaging, new procedures, physical properties of raw material and cheeses, chemical properties and composition, quality, other topics. Detailed instructions are to be published. Orig. art. has: 1 photograph.

SUB CODE: 06, 09/ SUBM DATE: none

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

RYADNOVA, I.M.; VASILENKO, T.S.

Production of frost resistant varieties of peach. Nauch. dokl. vys. shkoly; biol. nauki no.2:193-196 '65. (MIRA 18:5)

1. Rekomendovana kafedroy osnov sel'skogo khozyzystva Krasnodarskogo pedagogicheskogo instituta.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

S/185/62/007/012/014/021
D234/D308

AUTHORS: Vasylenko, T.V. and Khar'kov, Ye.Y.

TITLE: Diffusion of Ag in liquid Bi

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 12, 1962, 1345 - 1349

TEXT: A tube with an internal diameter of 3mm was filled with liquid Bi containing small additions of radioactive Ag, and a capillary, 0.5 - 1.0 mm in diameter, filled with Ag only, was inserted into it. The tubes were subjected to diffusion annealing. The thin capillary was then cut into parts and the activity was determined. Using this method, diffusion coefficients were determined for 300 - 700° C. The diffusion equation was found to be $D = 6.2 \times 10^{-3} \exp(6400 \pm 800/RT)$ cm^2 / sec. At 311 - 400° C the experimental points deviate from the theoretical curve towards lower activation energies. There are 3 figures and 1 table.

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S/185/62/007/012/014/021
D234/D308

Diffusion of Ag in liquid Bi

ASSOCIATION: Kyyivs'kyy derzhuniversytet im. T.H. Shevchenka (Kiev State University im. T.H. Shevchenko)

SUBMITTED: May 29, 1962

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

L 18368-65 [illegible]
RDW/JD
ACCESSION NR: AP4041 47

[illegible]

TITLE: Diffusion and solubility of selenium in hot tin

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 2, 1964, 203-209

TOPIC TAGS: diffusion, solubility, tin, capillary method, selenium

ABSTRACT: A capillary method for the investigation of diffusion in hot metals [illegible] developed by the authors [illegible] consists of two capillaries filled with Sn and [illegible] with that [illegible] dissolved at [illegible] 900C. Annealing within the 500-1000 C range causes the [illegible] variable source into the two semi-infinite spaces. Between 300 and 550 C not all Se was diffused. At higher temperatures a conspicuous improvement in the diffusion set in and all Se participated in the diffusion process at 600 C. However,

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

ORGANIZATION: Kievskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiev State University)

SUBMITTED: 23Oct63 ENCL: 01

SUB CODE: MM NO REF SOV: 004 OTHER: 003

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

L 18768-65
ACCESSION NR: AP4044147

ENCLOSURE: 01

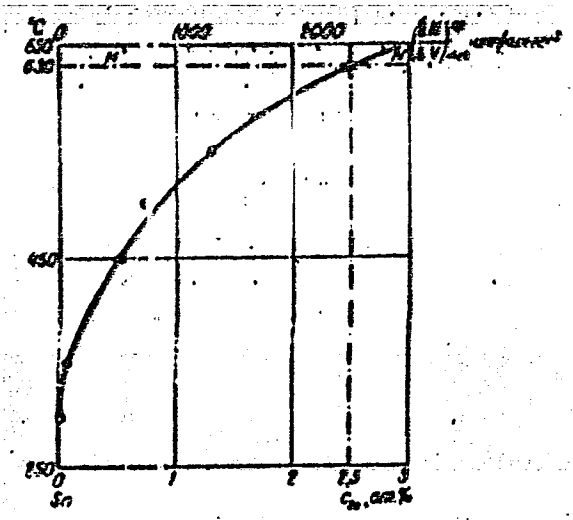

fig. 1

Diagram of selenium solubility in hot tin within the 300 to 550 C temperature range
•-the authors' findings; ▪-other findings

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858730004-5

KOSIKOV, K.V.; RAYEVSKAYA, O.G.; KONOVALOV, S.A.; GOLUBENKOVA, N.I.; VASILENKO, T.V.

Yeast hybrid increasing the yield of alcohol in the process of the fermentation of molasses. Mikrobiologiia 32 no.6:1052-1058 N-D '63 (MIRA 18:1)

1. Institut genetiki AN SSSR.

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