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VOYTSEKHOVSKIY, B.V.; KOTOV, B.Ye.

Optical investigation of the detonation spin wave front. Izv. Sib. otd. AN SSSR no.4:74-80 '58. (MIRA 11:9)

1.Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR.
(Explosions)

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VOYTSEKHOVSKIY, B.V.; KOTOV, B.Ye.; MITROFANOV, V.V.; TOPCHIYAN, M.Ye.

Optical investigation of transverse detonation waves. Izv.Sib. otd. AN SSSR no.9:44-51 '58. (MIRA 11:11)

1. Sibirskoye otdeleniye AN SSSR.
(Explosions)

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VOYTSEKHOVSKIY, B.V.; KOVAL', A.A.; SUN'TSAO [Sun Ts'ao]

Shadow method for registering waves on the surface of a liquid. Izv.Sib.otd.AN SSSR no.5:127-129 '59. (MIRA 12:10)

1. Institut gidrodinamiki Sibirskogo otdeleniya Akademii nauk SSSR.

(Waves)

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SOV/20-129-6-15/69

AUTHOR: Voytsekhovskiy, B.V.

TITLE: A Steady Detonation

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1254-1256 (USSR)

ABSTRACT: The author first deals with the basic scheme of the device in which a steady detonation was produced (Fig 1). If such conditions are created in a channel, under which the original gas mixture moves with sufficiently high velocity steadily before the front of the detonation wave, this phenomenon may be conveyed into the steady state. The front of the detonation wave propagates only in one direction in an annular channel. The initial gas mixture enters in radial direction into the channel through the internal wall. The detonation in the ring was photographed through a glass plate (serving as an upper boundary for the ring). Figure 2 shows the position of the fronts in the annular channel. The mixture in this channel was ignited synchronously with the opening of the photographic shutter at a point of the outer edge. Without any preparatory measures being taken, the detonation wave propagates from the point of ignition simultaneously in various directions. The

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A Steady Detonation

detonation waves collide on the opposite side of the ring, one detonation wave being able to break through into the reservoir containing the original mixture through the feed-nozzle. The prevention of such break-throughs to the rear causes considerable technical difficulties, and this problem was solved by means of a feed-nozzle of special shape and by the proper choice of pressure conditions. After the collision between the two detonation waves the number of fronts increases, after which a stable process of single collisions of detonation waves sets in. In order to produce a steady annular detonation it is necessary to exclude one of the fronts during ignition. The steady detonation has, as a rule, several fronts, and only on its edge is it possible for one single detonation front to exist. A multifront steady detonation is a very stable process, and in the neighborhood of each detonation front a complex picture of the interaction between shock waves is produced. Details are discussed on the basis of a figure. If there are many detonation fronts, they propagate in the combusted mixture with sonic velocity. Such a detonation process does not, however, fit into the scheme developed by Chapman-Jouget. The velocity of a steady detonation increases with a

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A Steady Detonation

SOV/20-129-6-15/69

deterioration of the conditions for its development, and must change within the limits of from v_1 to $2v_1 \simeq v_J$, where v_1 denotes the velocity of sound in the combustion products. The flame of the steady detonation is bluish-green. As a result of the suddenness of combustion, the carbon atoms are apparently not able to recombine to large groups, so that a more complete combustion of the explosive mixture is attained. In steady combustion a monotonic sound with the frequency nf is emitted, where n denotes the number of fronts and f - the revolution frequency of each front. The author thanks Academician M.A. Lavrent'yev for his attention. The experiments were carried out by V. and M. Tatarchuk. There are 4 figures.

ASSOCIATION: Institut gidrodinamiki Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Hydrodynamics of the Siberian Department of the Academy of Sciences of the USSR)

PRESENTED: September 14, 1959, by M.A. Lavrent'yev, Academician

SUBMITTED: September 11, 1959

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, B. V. (Novosibirsk)

"Spin Detonation."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, B. V. Dr. Phys-Math Sci — (diss) "Detonation spin and stationary detonation," Novosibirsk, 1960, 38 pp, (Joint Scientific Council for Phys-Math and Tech Sciences, Siberian Department, AS USSR) KL, 44-60, 127)

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28371
S/124/61/000/008/012/042
A001/A101

11.8100

AUTHOR: Voytsekhovskiy, B.V.

TITLE: Spin stationary detonation

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 8, 1961, 15, abstract 8B89 ("Zh. prikl. mekhan. i tekhn. fiz.", 1960, no. 3, 157 - 164)

TEXT: An installation is described which makes it possible to bring about a continuous (within 1-1.5 sec) detonation burning of preliminarily prepared explosive mixtures. The installation represented, in schematic features, two coaxial hollow cylinders with a vertical axis and a free space between the walls. The internal cylinder has, in its upper face end, a steel disk-flange with an aperture in the middle and an annular groove of rectangular cross section made in the upper surface of the disk. A plexiglass plate is laid from above on both of the cylinders in such a way that it adheres closely to the face end of the outer cylinder and has a small gap with the upper surface of the inner disk. The explosive mixture is fed into the annular groove through the hollow of the inner cylinder with a necessary velocity and a corresponding velocity of outlet of the burning products through the space between the cylinders; this makes it possible

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A001/A101

Spin stationary detonation

to ensure, after initiating detonation within the groove, a comparatively durable propagation in this groove of one or several waves, unidirectional or colliding with each other. Experiments were conducted with an acetylene-oxygen mixture, and results were recorded by the slit photo-sweep of the process through the upper transparent plexiglass plate. The photorecorder with a rotating drum was mounted on a rocking suspension in such a way that it could move around the axis perpendicular to the axis of drum rotation. This displacement was brought about by an auxiliary explosion synchronized with detonation initiation in the annular groove. The rocking suspension of the photorecorder permitted avoidance of mutual superposition of the image during repeated revolutions of the photorecorder drum; a long duration of photorecording of the process was made possible, due to the width of the film used (or to the size of the image along the slit). The author presents photorecording of detonation and the presumed scheme of the system of shock and detonation waves circulating within the annular groove. He derives the system of equations for determining the angles between the fronts of the waves in such a system. Equations of conservation of mass, momentum and energy are written down, using the method of plotting the control planes in front of such a system and behind it. The results of experiments are characterized by the

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A001/A101

Spin stationary detonation

discovered growth of detonation velocity with deterioration of conditions for its occurrence and by the change of this rate from the value of sound velocity to the detonation velocity in an impoverished mixture.

Yu. Denisov

[Abstracter's note: Complete translation]

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39224
S/207/62/000/003/005/016
I028/I228

11.9100

AUTHOR: Voytzekhovskiy, B. V., Mitrofanov, V. V. and Topchiyan, M. Ye. (Novosibirsk)

TITLE: On the flow structure in a spinning-detonation wave

PERIODICAL: Zhurnal prikladnpoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 27–30

TEXT: Experiments on the detection of the leading front of a detonation wave on a Töpler installation were designed in order to ascertain experimentally which of the patterns of flow in the region of the front fracture proposed by Voitzekhovskiy (according to which the compression of the main mass of gas occurs behind the shock front in the transversal detonation wave) and Denisov-Troshin (according to which the most luminous region represents the "fracture" of the leading front of the detonation wave) is correct. A photographic record of the detonation was taken by the method of total compensation through a slit in the detonation tube, and a diagram of the disposition of the fronts drawn on the basis of comparison of the Töpler and self-luminosity photographs of the detonation. This established the existence of a shock wave, in which the preliminary compression of the gas taken place, before the zone of maximum luminosity. The experimental results obtained agree with the theoretical pattern of flow proposed by Voitzekhovskiy. The authors thank L. V. Ovsyannikov and R. I. Soloukhin for their comments. There are 3 figures and 1 table. The most important English-language reference reads as follows: R. E. Duff "Investigation of Spinning Detonation and Detonation Stability", The Physics of Fluids, 1961, no. 11, p. 1427.

SUBMITTED: January 26, 1962

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L 42792-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6029078 SOURCE CODE: UR/0413/66/000/014/0142/0142

INVENTOR: Voytsekhovskiy, B. V.; Nikolayev, V. P.

ORG: none

TITLE: Hydraulic press "Ob'". Class 58, No. 184130

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 142

TOPIC TAGS: hydraulic press, forge press, metal forming press, hydraulic equipment

ABSTRACT: This Author Certificate introduces a hydraulic press which features a housing and a working chamber with a plunger (see Fig. 1). To increase the output

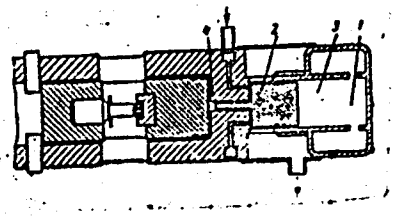

Fig. 1. Hydraulic press

1 - Working chamber; 2 - plunger; 3- high-pressure gas; 4 - space under piston.

and efficiency of the press, the plunger moves inside the chamber, which consists of two cylinders of different diameters. The space above the plunger is filled with

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high-pressure gas, and the space under the plunger is filled with high-pressure fluid. Orig. art. has: 1 figure. [TD]

SUB CODE: 11, 13/ SUBM DATE: 14Dec62/ATD PRESS15066

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VOYTSEKHOVSKIY, B.V.; IZOSIMOV, V.A.; OLEN'KOV, N.F.

Possible use of pulsating jets for the breaking down of rocks. Izv. Sib. otd. AN SSSR no.9:117-120 '62. (MIRA 17:8)

1. Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

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ACCESSION NR AM4024182 BOOK EXPLOITATION S/

Voytsekhovskiy, B. V.; Mitrofanov, V. V.; Topchiyan, M. YE.

Structure of the front in gas detonations (Struktura fronta detonatsii v gazakh), Novosibirsk, Izd-vo Sib. otd. AN SSSR, 1963, 167 p. illus., biblio. Errata slip inserted. 1,500 copies printed. (At head of title: Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut gidrodinamiki).

TOPIC TAGS: physics, gas detonation, gas detonation front

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Ch. V. Some general characteristics of detonation with transverse waves -- 149

SUB CODE: ME SUBMITTED: 19Sep63 NR REF SOV: 068
OTHER: 073 DATE ACQ: 21May64

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VOYTSEKHOVSKIY, B.V.; MITROFANOV, V.V.; TOPCHIYAN, M.Ye.; NAZARYANTS, T.M., red.; OVCHINNIKOVA, T.K., tekhn. red.

[Structure of the detonation front in gases] Struktura fronta detonatsii v gazakh. Novosibirsk, Izd-vo Sibirskogo otdniia AN SSSR, 1963. 167 p. (MIRA 17:3)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKY, B. V.; MITROFANOV, V. V.; SOLOKHIN, R. I.; TOPCHIYAN, M. Ye.
(Novosibirsk)

"Some results of investigations on gas detonation"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

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VOYTSEKHOVSKIY, B.V.; NIKOLAYEV, V.P.; DUDIN, V.M.; MAYYER, O.F.; CHERMENSKIY, G.P.

Some results of crushing rocks with a pulse water jet. Izv. SO AN SSSR no.2 Ser. tekh. nauk no.1:7-11 '63. (MIRA 16:8)

1. Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.
(Mining engineering) (Water jet)

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VOYTSEKHOVSKIY, B.V. (Novosibirsk); KOVAL', A.A. [deceased] (Novosibirsk)

Carrousel-type hydraulic duct. PMTF no.2:137-139 Jl-Ag 60. (MIRA 14:6)

(Hydraulic models)

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PASHCHENKO, M. (Poltavskaya oblast'); VOYTSEKHOVSKIY, E. (Zhitomirskaya oblast').

In school pedagogical rooms. Prof.-tekh.obr. 13 no.2:26 F '56. (MLRA 9:5)

1. Zaveduyushchaya pedagogicheskim kabinetom uchilishcha mekhanizatsii sel'skogo khozyaystva No. 4 (for Pashchenko); 2. Zaveduyushchiy pedagogicheskim kabinetom remeslennogo uchilishcha No. 2 (for Voytsekhovskiy).
(Technical education)

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SEVER'YANOV, N.N., kand. tekhn. nauk, red.; BERLIN, A.Ye., retsenzent; VOYTSEKHOVSKIY, G.A., retsenzent; DAVYDOVA, Ye.A., retsenzent; ZIL'BERSHTEIN, Ya.Yu., retsenzent; KIRICHINSKIY, N.R., retsenzent; KLEPIKOV, L.N., retsenzent; KUBYNIN, A.Ye., retsenzent; LEBEDEV, V.V., retsenzent; MOROZOV, V.P., retsenzent; MOSKVIN, V.B., retsenzent; MUSARSKIY, I.S., retsenzent; PODERNI, Yu.S., retsenzent; SALIKOV, I.A., retsenzent; SUSHCHENKO, A.A., retsenzent; TRET'YAKOV, K.M., retsenzent; UL'YANOV, V.P., retsenzent; TSVIRKO, P.P., retsenzent; TSOY, A.G., retsenzent; CHEL'TSOV, M.I., retsenzent; SHISHCHITS, G.N., retsenzent; DIDKOVSKIY, D.Z., otv. red.

[Handbook on the prospecting, planning, and construction of strip mines] Spravochnik po izyskaniiam, proektirovaniiu i stroitel'stvu kar'erov. Moskva, Nedra, 1964. 2 v. (MIRA 18:2)

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L 14534-65 EWT(1)/EWT(m) ASD(a)-5/AFMD(p)/AFTC(a)/ESD(a) JD
S/2529/63/000/075/0048/0054

ACCESSION NR: AT4047562

The arrangement of a mechanism for drawing second-order curves

[illegible] second-order curves, the author [illegible]

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BAKHCHISARAYTSEV, Arutyun Nikolayevich; KULICHIKHIN, N.I., retsenzent; VOYTSEKHOVSKIY, I.V., retsenzent; IVANIN, F.D., retsenzent; KOVAL', V.A., retsenzent; CHEREDNIK, P.Ye., retsenzent; NIKOLAYEV, S.V., red.; SUCHILIN, A.P., red.; SERGEYEVA, N.A., red. izd-va; GUROVA, O.A., tekhn. red.

[Organization and planning of geological prospecting]Organizatsiia i planirovanie geologorazvedochnykh rabot. Izd.2., perer. Moskva, Gosgeoltekhizdat, 1962. 369 p. (MIRA 16:2)
(Prospecting)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, K.F.

Ordering theory for n-component alloys. Soob. AN Gruz.SSR 21 no.3:277-280 S '58. (MIRA 12:4)

1. Kafedra eksperimental'noy fiziki Vrotslavskogo universiteta, Pol'sha. Predstavleno chlenom-korrespondentom Akademii V.I. Mamasakhlisovym.

(Alloys)

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VOYTSEKHOVSKIY, K.F.

VOYTSEKHOVSKIY, K.F.

Thermionic emission from ordered binary alloys. Fiz.met. i metalloved. 5 no.1:3-7 '57. (MIRA 11:2)

1.Kafedra eksperimental'noy fiziki Vrotslavskogo universiteta Pol'skoy Narodnoy Respubliki.

(Nuclear physics)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, M.I.

Rigidity of convex surfaces with edges. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.6:35-40 N-D '64. (MIRA 18:2)

1. Kafedra matematicheskogo analiza Moskovskogo universiteta.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV, S.S., kand. tekhn. nauk,; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye.,inzh.; BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY, I.A., inzh.; BURAKAS, A.I.,inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY, I.N.,inzh.; VASIL'YEVA, A.A.,inzh.; VORONIN, S.A.,inzh.; VOYTSEKHOVSKIY, L.K., inzh.; VRUBLEVSKIY, A.A.,inzh.; GERSHMAN, S.G., inzh.; GOLUBYATNIKOV, G.A.,inzh.; GORLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.; DASHEVSKIY, A.P.,inzh.;DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, B.L.,inzh.; DROZDOV, P.F.,kand. tekhn. nauk,; KOZLOVSKIY,A.A.,inzh.; KIRILENKO, V.G.,inzh.; KOPELYANSKIY, G.D.,kand. tekhn. nauk,; KORETSKIY, M.M.,inzh.; KUKHARCHUK, I.N.,inzh.; KUCHER, M.G.,inzh.; MERZLYAK, M.V.,inzh.; MIRONOV, V.V.,inzh.; NOVITSKIY, G.V.,inzh.; PADUN, N.M.,inzh.; PANKRAT'YEV, N.B., inzh.; PARKHOMENKO, V.I.,kand. biol. nauk,; PINSKIY, Ye.A.,inzh.; POLLUBNYY, S.A., inzh.; PORAZHENKO, F.F.,inzh.; PUZANOV, I.G.,inzh.; REDIN, I.P.inzh.; REZNIK, I.S.,kand, tekhn. nauk,; ROGOVSKIY, L.V.,inzh.; RUDERMAN, A.G.,inzh.; RYBAL'SKIY, V.I.,inzh.; SADOVNIKOV, I.S.,inzh.; SEVER'YANOV, N.N.,kand. tekhn. nauk,; SEMESHKO, A.T.,inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N.,inzh.; TROFIMOV, V.I.,inzh.; FEFER, M.M.,inzh.; FIALKOVSKIY, A.M.,inzh.; FRISHMAN, M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN, M.I., inzh.; SHUMYATSKIY, A.F.,inzh.; SHCHERBAKOV, V.I.,inzh.; STANCHENKO, I.K., otv. red.; LISHIN, G.L.,inzh.,red.; KRAVTSOV,Ye.P., inzh.,red.; GRIGOR'YEV, G.V.,red.; KAMINSKIY, D.N.,red.; KRASOVSKIY, I.P.,red.; LEYTMAN, L.Z., red.[deceased],; GUREVICH, M.S.,inzh.,red.; DANILEVSKIY, A.S.,inzh.,red.; DEMIN, A.M., inzh.,red.; KAGANOV, S.I.,inzh.,red.; KAUFMAN, B.N., kand. tekhn. nauk, red:.LISTOPADOV, N.P.,inzh.,red.; MENDELEVICH, I.R., inzh.,red.[deceased];

(continued on next card)

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AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, N.I., inzh., red.; ROZENBERG, B.M., inzh., red.; SLAVIN, D.S., inzh., red.; FEDOROV, M.P., inzh., red.; TSYMBAL, A.V., inzh., red.; SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining ; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol. 3. [Organization of planning; Construction of surface buildings and structures] Organizatsiia proektirovaniia; Stroitel'stvo zdanii i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)

(Mining engineering)

(Building)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, M.I.

Calculation of the parameters of a micropenetrometer. Vop. gidrogeol. i inzh.geol. no.19:149-152 '61. (MIRA 15:2)
(Rocks—Testing)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, N.K., inzh.; SHAGIAKHMEDOV, M.S., inzh.; BEKUSHEV, V.I. inzh.; FILIPPOV, G.S., inzh.; SHUL'GA, V.I., inzh.

Industrial tests of the BASh-250 drilling rig. Gor. zhur. no.10:54-55 O '61. (MIRA 15:2)

1. Zhdanovskiy gorno-obogatitel'nyy kombinat (for Voytsekhovskiy, Shagiakhmedov). 2. Gipronikel', Leningrad (for Bekushev, Filippov, Shul'ga).
(Boring machinery)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, N.K.; VIN'KOV, S.V.

Multiple purpose excavator brigades. Gor. zhur. no.3:34-37 Mr '57. (MIRA 10:4)

1. Zamestitel' direktora Noril'skogo kombinata (for Voytsekhovskiy).
2. Direktor rudnika "Ugol'nyy ruchey" (for Vin'kov).
(Norilsk--Copper mines and mining) (Strip mining)
(Excavating machinery)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

ONIKA, D.G.; VOYTSEKHOVSKIY, P., otvetstvennyy red.; BELINSKIY, G., tekhn. red.

[Stokehold near Moscow] Podmoskovnaia kochegarka. [Moskva] Mosk.bol'shevik, 1945. 122 p. (MIRA 11:6)
(Moscow Basin--Coal mines and mining)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, P.

Competition of innovators from four factories. Izobr. v SSSR 3 no.2: 36-37 F '58. (MIRA 11:3)

1. Nachal'nik OTI zavoda.
(Socialist competition)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, P.P.

Prevention of certain complication in intratracheal anesthesia in orthopedic and traumatological patients. Ortop.,travm.i protez. 22 no.3:39-43 '61. (MIRA 14:4)

1. Iz TSentral'nogo instituta travmatologii i ortopedii Ministerstva SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N. Priorov).

(INTRATRACHEAL ANESTHESIA)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

ALEKSEYEVA, T.V., kand. tekhn. nauk; ARTEM'YEV, K.A., kand. tekhn. nauk; BROMBERG, A.A., prof.; VOYTSEKHOVSKIY, R.I., inzh.; UL'YANOV, N.A., kand. tekhn. nauk; Prinimal uchastiye KONONENKO, M.A., inzh.; FEDOROV, D.I., kand. tekhn. nauk, retsenzent.

[Machines for earthwork; theory and calculation] Mashiny dlia zemlianykh rabot; teoriia i raschet. [By] T.V. Alekseeva i dr. Izd.2., perer. i dop. Moskva, Izd-vo "Mashinostroenie," 1964. 467 p. (MIRA 17:5)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

FRANTSUZOV, Yakov Leonovich; BELYAYEV, Leonid Mikhaylovich; PLAVINSKIY, V.I., kand. tekhn. nauk, retsenzent; VOYTSEKHOVSKIY, R.I., inzh., red.; GALANOVA, M.S., inzh., ~~red. izd-va;~~ UVAROVA, A.F., tekhn. red.

[Assembly and operation of suspended cableways] Montazh i ekspluatatsiia podvesnykh kanatnykh dorog. Moskva, Mashgiz, 1962. 275 p. (MIRA 15:3)

(Cableways)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

KORNEV, K.A. [Korniev, K.A.], doktor khim. nauk; KACHAN, A.A., kand. khim. nauk; LOKHMACHOV, V.F.; VOYTSEKHIVS'KIY, R.V. [Voitsekhivs'kyi, R.V.], kand. khim. nauk

Using ultraviolet spectroscopy for the investigation of the photodisintegration of polycaprolactam. Khim. prom. [Ukr.] no.1:65-66 Ja-Mr'63 (MIRA 17:7)

1. Institut khimii polimerov i monomerov AN UkrSSR. 2. Chlen-korrespondent AN UkrSSR (for Kornev).

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

NESTEROV, A. Ye. [Nesterov, A. IE.]; VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.]

Analysis of three- component solvent mixtures. Khim. prom. [Ukr.] no.1:69-72 Ja-Mr '63 (MIRA 17:7)

1. Institut khimii polimerov i monomerov AN UkrSSR.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

USSR/Chemistry - Colloids
Bound Water

Nov/Dec 48

"Methods of Determining the Hydrophilic Qualities of Dispersed Systems," M. P. Dumanskiy, R. V. Voytsekhovskiy, Inst of Gen and Inorg Chem, Acad Sci USSR, 9½ pp

"Kolloid Zhur" Vol X, No 6

Compares methods of determining bound water. The method by heat of wetting, Gortner's method, and those of Dumanskiy and Thoenes give the same amount for starch equaling on an average 32.4% of the dry substance. Discrepancies noted in applying the pycnometer and dilatometer methods can be explained by the inadequacy of experiments. Submitted 15 May 48.

65/49T10

VOYTSEKHOVSKIY, R. V.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOITSIEKHOVSKIY, K. V.

28413

Tyekhnogi chyeskiye pokazatyeli konichyeskoy myelnitsy. Bumazh. Prom-sty., 1949, No. 4, S. 19-21

SO: LETOPIS No. 34

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOLITSKIOVSKIY, R.V.

Chemical Abst.
Vol. 48
Apr. 10, 1954
General and Physical Chemistry

Estimation of the lyophily of solid substances from their specific gravity. R. V. Volitskiovskii. *Ukrain. Khim. Zhur.* 17, 850-60(1951)(in Russian); cf. *C.A.* 43, 7781*f*.—The amt. x of a liquid bound by 1 g. of a solid can be calcd. from $x = d_s d_l(d_s - d_1)/d_1 d_s(d_s - d_l)$; d_s and d_l are the true d. of liquid and solid, resp., d_1 is the d. of the bound liquid, and d_s is the apparent d. of the solid in the liquid. For H_2O, d_s is assumed to be 1.21. Then, x of sulfite *cellulose* is 0.118. From literature data, x of cotton is 0.136, of mercerized cotton 0.175, and of various kinds of rayon 0.170–0.197.

J. J. Bikerman

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Foods

(4)

Experimental use of A. V. Dumanskii's method of determination of bound water in flour. R. V. Voitsekhovskii and A. P. Shevtsova (Inst. Gen. and Inorg. Chem., Acad Sci. Ukr. S.S.R., Kiev). *Ukrain. Khim. Zhur.* 18, 555-62 (1952)(in Russian); cf. Dumanskii and Nekrytch, *C.A.* 45, 5702i.—The Dumanskii method is based on refractometry of a soln. obtained after treating flour with H_2O and sugar in definite proportions and requires precise following of directions. The following changes are recommended: To 2 of 4 samples which are suspended in 10 ml. H_2O each, add 8 g. sugar soln. (2:1) after 1 hr., centrifuge 5 min., mix, recentrifuge 15 min., and exam. refractometrically. G. M. K.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, R.V.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

L 23074-66 EWP(e)/EWT(m)/EWP(j)/T WW/RM/WH

ACC NR: AP6010106 (A) SOURCE CODE: UR/0190/66/008/003/0415/0418

AUTHOR: Kercha, Yu. Yu.; Voytsekhovskiy, R. V.

ORG: Institute of Chemistry of High-Molecular Compounds, AN SSSR (Institut khimii vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Investigation of the fillers effect on thermal behavior of caproamide by means of differential thermal analysis

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 3, 1966, 415-418

TOPIC TAGS: filler, thermal effect, thermal stress, pyroelectric crystal, kaolin, graphite, polymerization, melting point, crystallization, temperature dependence

ABSTRACT: The thermal behavior of polycaproamide filled with 25% of the fillers pyrophillite, marshallite, kaolin, and graphite has been investigated using differential thermal analysis. The fillers were introduced in the starting polymerization mixture. On the basis of the different melting and crystallization temperature drops of filled samples, the conclusion was drawn that solid fillers which do not chemically interact with polycaproamide could effect its primary crystalline structure. Orig. art. has: 1 figure and 2 tables. [Based

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

L 23074-66

ACC NR: AP6010106

on author's abstract] [NT]

SUB CODE: 11,20/ SUBM DATE: 11Mar65/ ORIG REF: 008/
OTH REF: 004

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

ACC NR: AT6006247 SOURCE CODE: UR/0000/65/000/000/0073/0076

AUTHOR: Voytsekhovskiy, R. V. (Candidate of chemical sciences); Panchenko, L. I.

ORG: Institute of Chemistry of High Molecular Compounds, AN UkrSSR, Kiev (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR)

TITLE: Investigation of the caprolactam polymerization process in the presence of mineral additives

SOURCE: AN UkrSSR. Modifikatsiya svoystv polimerov i polimernykh materialov (Modification of the properties of polymers and polymeric materials). Kiev, Naukova dumka, 1965, 73-76

TOPIC TAGS: polymerization, polymer, synthetic material, solid mechanical property, polymerization rate

ABSTRACT: The effect of introducing various Ukrainian clays, pyrophyllite ($Al_2O_3 \cdot 4SiO_2 \cdot H_2O$), kaolin ($Al_2O_3 \cdot 2SiO_2 \cdot 2H_2O$), palygorskite ($m2MgO \cdot 3SiO_2 \cdot 4H_2O \cdot nAl_2O_3 \cdot 4SiO_2 \cdot 5H_2O$), montmorillonite $[m\{Mg_3[Si_4O_{10}][OH]_2\} \cdot \{p(Al,Fe)_2[Si_4O_{10}][OH]_2\}nH_2O$, silica, alumina, titania, and powdered silica gel, as fillers in caprolactam polymerization, on the specific viscosity of the polymer was investigated. The filler particle size was 1-100 microns. The filler concentration varied with 0-20%. The polymerizations were conducted in an inert gas atmosphere in sealed ampoules at 250°C for 7 hours.

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ACC NR: AT6006247

The AC salt was used as an indicator. The highest degree of caprolactam polymerization was achieved with pure aluminosilicate additives. It was found that mineral additives exhibit catalytic properties in the initial stages of the polymerization process. Specific viscosity η_{sp} of polycaprolactam as a function of the quantity of the additive used is graphed. Orig. art. has: 3 figures, 1 formula.

SUB CODE: 07/ SUBM DATE: 06Oct65/ ORIG REF: 005/ OTH REF: 007

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

POLYAKOVA, V.M.; VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.]

Variation of the constant b of Tung's equation in the process of polymerization and additional treatment of poly-ε-caproamide. Dop. AN URSR no.11:1484-1486 '65. (MIRA 18:12)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, R.V.; POLYAKOVA, V.M.; GORSHECHNIKOVA, O.V.

Changes observed in the molecular weight distribution of poly-ε-caproamide during γ-irradiation. Ukr. khim. zhur. 31 no.6:600-602 '65. (MIRA 18:7)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN Ukr[illegible]

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acid was used as a solvent and a 3.8 M aqueous solution of $(NH_4)_2SO_4$ a the pre-

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

KERCHA, Yu.Yu., kand. khim. nauk; VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.], kand. khim. nauk; OSTROVERKHOV, V.G. [Ostroverkhov, V.H.], kand. khim. nauk; KOVALENKO, G.F. [Kovalenko, H.F.]; KUZNETSOVA, V.V. [Kuznietsova, V.V.]

Effect of the esters of pentaerythritol and synthetic fatty acids on the properties of polyvinyl chloride. Khim. prom. [Ukr.] no.3: 38-40 Jl-S '64. (MIRA 17:12)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.], kand. khim. nauk; POLYAKOVA, V.M.

New analytical method for determining the polydispersion composition of poly-ε-caprolactam. Khim. prom. [Ukr.] no.3:76-78 Jl-S '64. (MIRA 17:12)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

KORNEV, K.A., glav. red.; SHEVLYAKOV, A.S., red.; CHERVYATSOVA, L.L., red.; SMETANKINA, N.P., red.; YEGOROV, Yu.P., red.; ROMANKEVICH, M.Ya., red.; KUZNETSOVA, V.P., red.; PAZENKO, Z.N., red.; KACHAN, A.A., red.; VOYTSEKHOVSKIY, R.V., red.; GREKOV, A.P., red.; DUMANSKIY, I.A., red.; AVDAKOVA, I.L., red.; VYSOTSKIY, Z.Z., red.; GUMENYUK, V.S., red.; MEL'NIK, A.F., red.

[Synthesis and physical chemistry of polymers; articles on the results of scientific research] Sintez i fiziko-khimiia polimerov; sbornik statei po rezul'tatam nauchno-issledovatel'skikh rabot. Kiev, Naukova dumka, 1964. 171 p. (MIRA 17:11)

1. Akademiya nauk URSR, Kiev. Institut khimii vysokomolekulyarnykh soyedineniy. 2. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN USSR (for Vysotskiy). 3. Institut khimii vysokomolekulyarnykh soyedineniy AN USSR (for Romankevich, Chervyatsova, Voytsekhovskiy).

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, R.V. [Voitsekhivs'kyi, R.V.]; NESTEROV, A.Ye. [Niestierov, A.IE.]

Viscosity and molecular weight of capron produced under conditions of high-speed low-temperature polymerization. Khim.prom. [Ukr.] no.1:15-17 Ja-Mr '64. (MIRA 17:3)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

VOYTSEKHOVSKIY, R.V.; ZASIMCHUK, T.K.

Interferometric determination of water-soluble low molecular fractions in capron. Zav.lab. 28 no.10:1206-1207 '62. (MIRA15:10)

1. Institut khimii polimerov i monomerov AN UkrSSR.
(Nylon)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2

1. VOITSEKHOVSKIY, R.V.

2. USSR (600)

4. Colloids

7. Determination of the lyophilic properties of solids by their specific weights, Ukr.khim.zhur. 17 no. 6, 1951.

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

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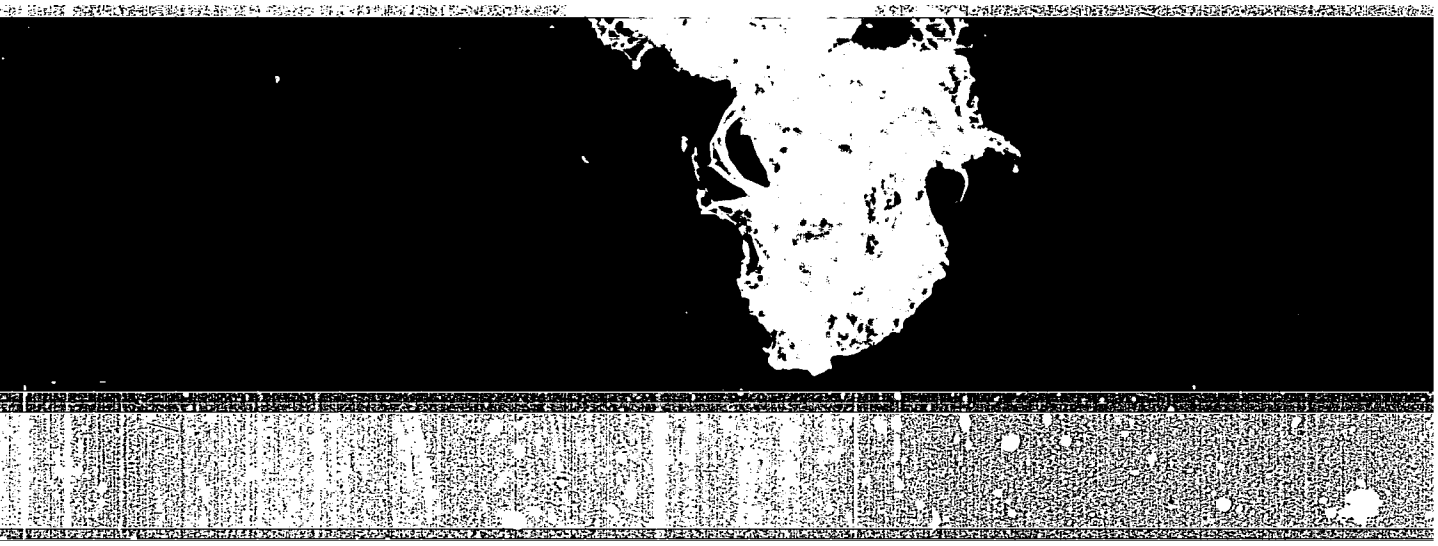
"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861120019-2



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