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[illegible], [illegible]

[illegible], [illegible] "[illegible] cont[illegible] rods", [illegible] A [illegible] 317- [illegible]

[illegible]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.

Supporting capacity of excentric structural steel bars. Izv. AN Arm. SSR. Ser. FMET nauk 7 no.1:69-86 Ja-F '54. (MLRA 8:2)
(Steel, Structural)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.

On an error in K.Iezek's determination of the carrying capacity of eccentrically compressed bars. Izv. AN Arm. SSR Ser. FMET nauk 7 no.3:89-94 My-Je '54. (MLRA 8:3)
(Structures, Theory of) (Deformations (Mechanics))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHIAN, V.V.

Design of compressed sectional steel bars connected by diagonal trellises. Dokl.AN Arm.SSR 18 n.[illegible] '54. (MLRA [illegible])
(Trellises)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN V.V.

PI[redacted].

Experimental study of the effect of bimoment on short compressed I-beams. Dokl.AN Arm.SSR 18 no.4:97-104 '54. (MLRA 8:3)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk Armyanskoy SSR.
(Deformations (Mechanics)) (Girders)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.

Limiting state of short eccentrically compact rods of H-shaped cross section in a biaxial eccentric application of force. Dokl.AN Arm.SSR 21 no.2:57-62 '55. (MLRA 8:12)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk Armyanskoy SSR. Predstavleno A.G.Nazarovym
(Deformations (Mechanics))

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.

Experimental study of cross-section plane projections of beams subjected to torsional deformations beyond the elasticity limit. Dokl. AN Arm. SSR 21 no.4:163-166 '55. (MLRA 9:3)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk Armyanskoy SSR. Predstavleno A.G. Nazarovym.
(Structures, Theory of) (Girders)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

124-11-13168D

Translation from: Referativnyy Zurhnal, Mekhanika, 1957, Nr 11, p 130 (USSR)

AUTHOR: Pinadzhyan, V. V.

TITLE: Questions on Critical Conditions of Compressed Elements in Steel Construction. (Nekotoryye voprosy predel'nogo sostoyaniya szhatykh elementov stal'nykh konstruktsiy)

ABSTRACT: Bibliographic entry of the Author's dissertation for the degree of Doctor of Technical Sciences. In-t stroit. materialov i sooruzh., A N ArmSSR, Yerevan (Erivan), 1956.

ASSOCIATION: In-t stroit. materialov i sooruzh (Institute of Construction Materials and Structures), AN ArmSSR.

Card 1/1

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PINEDJAN, V.V.

4
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2048. Pinedjan, V. V., An experimental investigation of the displanar distortion of bar cross sections under torsional bending deformation beyond the elastic limit (in Russian), *Doklady Akad. Nauk Arm. SSR* 21, 4, 163-166, 1955; *Ref. Zh. Mekh.* no. 11, 1956, Rev. 7757.

Results are presented of an experimental investigation into the elastic plastic deformations of the cross section of a thin-walled, steel bar of double-tee section under the action of a purely bi-directional moment. Two samples have been tested, of 626-mm length, with ratios of depth of section to wall thickness h/δ, of 19.2 and 16, respectively.

The tests were made on a 10-ton Zshopper press, the lower end of the test sample being rigidly fixed, while the bidirectional stress at the upper end was produced by a special device. The sample was loaded in three stages. The elongations were measured by extensometer gages.

The results obtained show that the hypothesis of displanar distortion of thin-walled bar, following a particular law, is also applicable beyond the elastic limit.

A. I. Sterl'bitskaya

Courtesy Referativnyi Zhurnal, USSR

Translation, courtesy Ministry of Supply, England

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

NAZAROV, A.G.; PINADZHYAN, V.V.; SIMONOV, M.Z.

Reviews and bibliography. Izv. AN Arm.SSR. Ser.tekhn.nauk 11 no.4:75 '58. (MIRA 11:10)
(Bibliography--Technology)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

VINKR, L.Ya.; PINADZHYAN, V.V.

Experimental study of the effect of creep of concrete on the functioning of short, excentrically compressed, reinforced concrete posts. Dokl. AN Arm.SSR 29 no.2:73-80 '59. (MIRA 12:11)

1. Institut stroitel'nykh materialov i sooruzheniy. Predstavleno chlenom-korrespondentom AN Armyanskoy SSR A.G. Nazarovym.
(Reinforced concrete) (Creep of materials)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.; INDZHIKYAN, Ye.A.

Deformation of plastic steel under the combined effect of stretching and torsion. Izv.AN Arm.SSR.Ser.tekh.nauk. 12 no.1:53-56 '59. (MIRA 12:4)

1. Institut stroymaterialov i sooruzheniy Ministerstva stroitel'stva Arm.SSR.
(Steel--Testing) (Deformation (Mechanics))

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report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 4 Feb 60.

35. S. A. Bernshtein (Sverdlovsk): On the solution of the dynamic contact problem for a half-space under conditions of axial symmetry.

36. J. Brilla (Bratislava): Anisotropic plates with discontinuous supports.

37. S. S. Brynda (Moscow): On the essential non-linearity of certain problems on column stability.

38. F. A. Bulgin (Kiev), A. I. Zarembin (Moscow): On the determination of safety factors under alternating random loads.

39. A. I. Burlakov (Kharkov): An experimental investigation of creep of variable loadings cables.

40. S. P. Timoshenko (Leningrad): On the stability of constructionally anisotropic circular ring plates.

41. Sh. Ibrahim, I. Prista, S. Roth (Bucharest): The field of application of thermoelasticity.

42. D. A. Ishlinsky (Kiev): The state of stress of lamellar systems of regular configuration.

43. V. V. Kalashnikov (Moscow): Rheologic properties of lubricants on basis of their rheological characteristics.

44. G. A. Ter-Grigoryan, G. S. Sirik (Kiev): Application of Airian functions to the investigation of shells.

45. P. M. Varvak (Kiev): Determination of stresses and deformations in middle bodies.

46. S. V. Kolesnikov (Gorkii): The flow of bitumens and filled bitumens in pipes.

47. I. I. Vekua, V. I. Mushelishvili (Tbilisi): Applications of analytic functions in the theory of elasticity.

48. Ya. Ya. Klaas (Tallinn), V. V. Zhukovskii (Riga): Experimental investigation of the buckling of longitudinally compressed short columns for long loading times.

49. G. V. Novozhilov (Moscow), A. A. Pucherov (Kazan), V. P. Parlin (Moscow): Investigation of soft plastic bodies under combined states of stress.

50. G. V. Novozhilov, V. P. Parlin (Moscow): Basic peculiarities of the mechanical properties of plastic materials.

51. S. I. Novikov (Leningrad): Fundamentals of the linear theory of visco-elastic impact.

52. L. I. Novozhilov (Moscow): The solution of dynamic contact problems for foundations using a simplified model.

53. N. P. Obodan (Moscow): On the equilibrium equations of thick elastic plates.

54. L. P. Velikovskii (Leningrad): The creep of ice and frozen soils under combined stresses.

55. M. P. Volarovich, G. I. Barenblatt, B. P. Gavrilovskii, G. I. Rabinovich (Moscow): Studies of viscoelastic properties of porous bodies (e.g. peat) by the ultrasonic pulse method.

56. M. P. Volarovich (Moscow), A. Sh. Ko (Minsk): The plane flow of a visco-plastic medium between two planes forming an acute angle.

57. M. P. Volarovich, L. S. Ovsyn (Moscow): Elementary and dynamics of the flow of visco-plastic dispersed media past bodies of different shapes.

58. A. S. Volmir (Moscow): On the analysis of a short closed cylindrical shell.

59. G. S. Vulkov, S. A. Klinskikh (Sverdlovsk): On the distribution of elastic constants in quasi-isotropic polycrystalline media.

60. I. I. Gorbunov (Nizhnii-Novgorod): A statistical method in the stability theory of shells.

61. I. I. Gvozdev (Nizhnii-Novgorod), A. A. Kosmodamianskii (Kharkov): On stress concentration in a plane with an infinite number of holes.

62. G. P. Gladkomanskii (Leningrad): Foundations of the general engineering theory of elastic beams.

63. A. S. Gladun (Moscow): The laws of deformation of ice.

64. S. S. Gladun (Moscow): The laws of motion of ice streets and the theory of visco-plastic flow based on research in the Antarctic.

65. S. D. Gallikov (Leningrad): A method of obtaining polynomial stress and displacement functions.

66. G. I. Gulkarov (Kazan): A contribution to the theory of the finite deformations of thin shells.

67. G. P. Gulin (Moscow): The propagation of elastic-plastic bending and shear waves in the axisymmetrical deformations of shells.

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PINADZHYAN, V.V.

Continuous deformation of reinforced concrete arches of a long-span bridge. Izv. AN Arm.SSR.Ser.tekh.nauk 13 no.3:51-54 '60. (MIRA 14:1)

1. Armyanskiy nauchno-issledovatel'skiy institut stroymaterialov i sooruzheniy.
(Arches) (Reinforced concrete construction)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

TINADZHYAN, V.V.

Seventieth anniversary of K.S. Zavriev. Izv. AN Arm.SSR. ser.tekh. nauk 13 no.6:59-61 '60. (MIRA 14:3)
(Zavriev, Kiriak Samsonovich, 1891)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.; KANETSYAN, G.M.; ACETISYAN, R.S.

Static and fatigue strength of reinforced concrete beams.
Izv. AN Arm. SSR. Ser. tekh.nauk 15 no.4:35-42 '62.
(MIRA 15:9)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.
(Strength of materials)
(Reinforced concrete construction)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.

N.K.Snitko's 60th birthday. Izv AN Arm. SSR. Ser. tekh. nauk 14 no.5:73 '61. (MIRA 15:1)
(Snitko, Nikolai Konstantinovich, 1901-)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINADZHYAN, V.V.; AVETISYAN, R.S.

Static and fatigue strength of wire-reinforced concrete beams. Izv.AN Arm.SSR.Ser.tekh.nauk 15 no.3:41-49 '62. (MIRA 15:6)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh materialov i sooruzheniy.
(Reinforced concrete construction)

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[illegible]AEV, A. [illegible]
[illegible], Khiz. Mashinostroenie [illegible], No. 2, [illegible]

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PINAEVSKAYA

"Equilibrium of the System of $NaF-AlF_3-H_2O$".

Yatlov, and Pinaevskaya. (p. 21)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1949, Volume 19, No. 1

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A study of the conditions for the chemical treatment of low-grade chromites. F. F. Volf and E. N. Pinaevskaya. *J. Chem. Ind.* (Moscow) 8, 949-55(1931). Saranovski chromite from the Urals contains about 40% Cr_2O_3. Attempted mech. concn. is unsuccessful, since the Al_2O_3 present is not removed. The best treatment was found to be fusion of the ore with soda and dolomite in the proportions 1:0.8:0.8 at 1100-1200°. Natural dolomite was superior to pure MgO. The fusion was extd. with H_2O. When 98% of the Cr_2O_3 was extd., 75% of the Al_2O_3 was dissolved. The alk. ext. was neutralized to ppt. $Al(OH)_3$. CO_2 in this step gives the best form of $Al(OH)_3$ with respect to ease of washing and suitability for future use, but as the soln. remains alk., pptn. is incomplete. H_2SO_4 gives complete pptn. The $Al(OH)_3$ is fit for immediate conversion into alum, but not into cryolite. It contains no Fe and little Cr. The filtrate from the $Al(OH)_3$ can be worked up in the usual way into Cr salts. The process is economically practicable. H. M. Leicester

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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FINAEVSKAYA, E.N.,
JA. E. VILYAMSKII, Sotzialist. Rekonstruktziya i Nauka. 1935,
No. 5, 161

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Solubility of fluosilicates of magnesium, zinc and lead. V. S. Yatlov and E. N. [illegible]. *J. Gen. Chem.* (U. S. S. R.) 8, 1663-9(in French, 1669)(1938).—Soly. of $MgSiF_6$ in H_2O in g. per 100 g. soln., at −0.9, −2.2, −3.8, −6.0, 0, 20, 40, 50, 57 and 60°, is 5.0, 10.0, 15.0, 19.5, 20.[illegible], 28.[illegible], 26.[illegible], 28.54, 28.66 and 30.74, resp. Soly. of $ZnSiF_6$ at −0.8, −1.4, −3.2, −4.8, −7.4, −11.8, −14.6, 0, [illegible], 40, 50, 60, 80 and 100°, is 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 32.0, 33.73, 35.16, 37.02, 38.30, 38.49, 40.95 and [illegible], resp. Soly. of $PbSiF_6$ at 0, 20, 50, 55, 57, 60, 65, 80 and 100° is 65.48, 68.97, 74.16, 75.38, 77.70, 80.11, 80.75, 81.08 and 82.25, resp. In the case of $MgSiF_6$ solns. the solid phase consists of ice at temps. up to and including −3.8°, of ice + $MgSiF_6.6H_2O$ at −6.0° and of $MgSiF_6.6H_2O$ above 0°; in the case of $ZnSiF_6$ solns. ice separates out down to and including −11.8°, ice + $ZnSiF_6.6H_2O$ at −14.6° and $ZnSiF_6.6H_2O$ above 0°, in the case of $PbSiF_6$, the solid phase is $PbSiF_6.4H_2O$ up to and including 57° and $PbSiF_6.2H_2O$ above, 60°. Soly. of the fluosilicates in H_2SiF_6 at 20° was also investigated.

S. I. Madorsky

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BC

PROCESSES AND PROPERTIES INDEX

Equilibrium in the systems NH_4BF_4, H_2O and $(NH_4)_2SiF_6$-H_2O. A. S. Jatlov and I. N. Pinaievskaja. *J. Gen. Chem. Russ.* 1945, 15, 269-272. The systems NH_4BF_4, H_2O and $(NH_4)_2SiF_6$, H_2O have been examined from −1° to 100°. Only anhyd. salts are deposited. $(NH_4)_2SiF_6$ exists in two forms, the transition temp lying at −13-14°. H. To.

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SO: Journal of General Chemistry

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BC

Chemical treatment of low-grade chromites. F. F. Wolf and R. N. Pharabhaja (J. Chem. Ind. Russ., 1931, 8, 949—[illegible]).—Estonov chromite, containing about 13% Cr_2O_3, is heated at 1100° with Na_2CO_3 and dolomite (proportions 1 : 0·8 : 0·8) and the product is extracted with H_2O, when 98% of Cr and 75% of Al present is obtained in the extract, which is neutralised to ppt. $Al(OH)_3$. The calcined ppt. contains 83·2% Al_2O_3, 0·17% Cr_2O_3, 1·4% SiO_2, 0·15% SO_3, and 13·[illegible]% Na_2O; Fe, Mg, and Ca are absent, so that the product is suitable for the prep. of pure Al salts. The filtrate is worked up for Cr salts in the usual way.

R. Truszkowski.

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[redacted]

1ST AND 2ND CODES

PROCESSES AND PROPERTIES INDEX

a-1

Solubility of magnesium, zinc, and lead silicofluorides. V. S. JATLOV and K. N. PISAREVSKAJA (J. Gen. Chem. Russ., 1939, 9, 1665—1669).—Solubility data are recorded for the systems H_2O-$MgSiF_6$-, -$ZnSiF_6$-, and -$PbSiF_6$. The solid phases are ice and $MgSiF_6.6H_2O$, $ZnSiF_6.6H_2O$, and $PbSiF_6.2$ and $4H_2O$ (transition point, 59·5—59·7°). R. T.

AND SEA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

CA

2

PROCESSES AND PROPERTIES INDEX

The vapor pressure of solutions of fluosilicic acid. V. S. Yatlov and E. N. Pinaevskaya. *J. Applied Chem. (U. S. S. R.)* 14, 11-13 (in German, 13) (1941). — The investigation covers the detn. of the content of fluorides (recalcd. to F) in air satd. with vapors of solns. (5-45 0%) of H_2SiF_6 (50, 75 and 100%) and of the pressure of water vapor over these solns. at the same temps. A. A. B.

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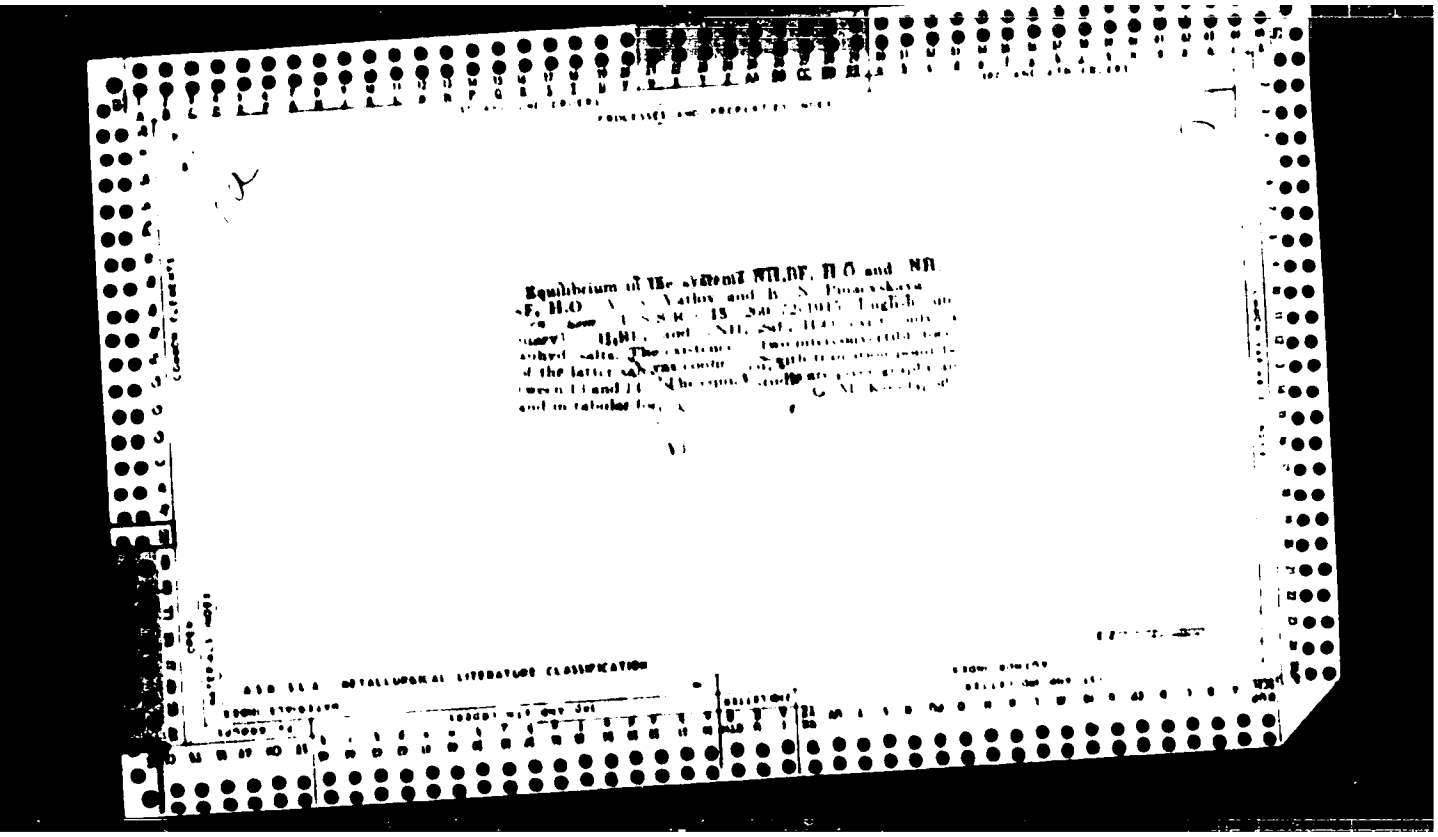

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2

Equilibrium in the system AlF_3 H_2O V. S. Vatlov and I. N. Pinacvskaya *J. Gen. Chem.* (U.S.S.R.) 16, 27-32 (1946; English summary). At atm. pressure there exist only the following hydrates of AlF_3: $AlF_3.3H_2O$, α-form of $AlF_3.3.5H_2O$ (poorly sol.), $AlF_3.3.5H_2O$ (β-form, sol.) and $AlF_3.9H_2O$. The soly. of the hydrates was detd. at various temps. At all temps. the most stable hydrate is the trihydrate; all unstable forms tend to revert to this form. Both forms of $AlF_3.3.5H_2O$ go over into the trihydrate directly through a continuous series of solid solns. The nonahydrate has a transformation point to the 3.5-hydrate at 8°, with the reverse change occurring at 0°. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

2

CA

Equilibrium in the system NaF AlF₃ H₂O. [illegible] Vatlov and R. N. Pinaevskaya. *Zhur. Obshchei Khim.* 19, No. 1, 24-33 (1949). *J. Gen. Chem. U.S.S.R.* 19, 21-6 (1949) (English translation). cf. C. A. 7, 1849, 17, 3273. The system was studied at 25° and at 75° by the [illegible] thermostatic method of detg. solubilities and by investigating the elec. cond. There are 5 regions where the stable solid phases are: (1) AlF₃.3H₂O; (2) solid soln. of AlF₃.3H₂O in chiolite, which latter compd. appears to have the formula 3NaF.2AlF₃, corresponding to the compd. found in the binary system NaF.AlF₃, rather than 5NaF.2AlF₃, corresponding to the naturally-occurring mineral; (3) chiolite; (4) solid solns. of chiolite in NaF, with no indication of the compd. 11NaF.4AlF₃ previously reported (C. A. 38, 3542[1]), but having an upper limit of soly. corresponding to a Na:Al ratio of 2.7:2.8; (5) NaF (not investigated in this work). Binary fluorides of Na and Al dissolve in water with decompn., and consequently cryolite 3NaF.AlF₃ was not found. The compd. NaAlF₄ was not isolated, but it is possible that it is formed as a monohydrate in concd. solns. of AlF₃. A. J. Miller

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAR, OTOMAR

Rapid microdetermination of nitrogen in urine. Otomar Pinar. *Casopis Lékařů Českých* 88, 127-8(1949).—Oxidize 0.1 ml. of urine with 1 ml. of a soln. which contains 2.5 ml. Br in 250 ml. 12% NaOH. After 5 min., add 20 ml. of 1:5 HCl, and det. the remaining Br photocolorimetrically by aid of a green filter. The chem. reaction is $2NH_3 + 6Br \rightarrow 6HBr + N_2$. Fifty analyses can be made in 1 hr. For the purpose of standardization add KI to the NaOBr soln., acidify, and titrate with $Na_2S_2O_3$. The precision of the method is ± 3%; the values found are slightly less than those obtained by a Kjeldahl detn. Werner Jacobson

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINASHIN, A. N. (Eng.), TROFIMOV, G. F. (Eng.)

Magnitogrosk--Iron Mines and Mining

Organization of waste [illegible] at the Magnitogorsk mine. Mekh. trud. rab. [illegible]

9. Monthly List of Russian Accessions, Library of Congress, August 1[illegible] 1957, Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

TROFIMOV, Georgiy Vladimirovich; PINASHIN, Aleksandr Nikiforovich; YEFANOV, N.I., inzhener, retsenzent; MARTYNOV, G.P., redaktor; YEZDOKOVA, M.L., redaktor izdatel'stva; HERLOV, A.P., tekhnicheskiy redaktor

[Progressive experience in the organization and production of dump work at the Magnitogorsk open-cut iron mine] Peredovoi opyt organizatsii i proizvodstva otval'nykh rabot na magnitogorskom zheleznorudnom kar'ere. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 73 p. (MLRA 9:11)

(Dumping appliances)
(Magnitogorsk--Strip mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINATIC, KONRAD

Studien zum Larchenbau in Bosnien; Beitrag zum Anbau der europaischen Lärche (Larix decidua Mill)

Sarajevo, Yugoslavia, 1958 P 78

Monthly List of East European Accessions (EEAI) LC. vol. 8, no. 9, Sept. 1959

Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINATRIC, K.

AGRICULTURE

PERIODICAL: MORSKO RIVARSTVO Vol. 1., no. 7/9, July/Sept. 1958

PINATRIC, L. Possibilities of introducing the European larch (Larix decidua Mill) in Bosnian forests p. 478.

Monthly List of East European Accessions (EEAI) Vol. 1., no. 7/9
April 1959 Unclass.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

S/136/63/000/002/001/006
E021/E483

AUTHORS: Pinayev, A.K., Fel'metsger, V.I., Poletayev, G.S., Marchenko, V.G.

TITLE: Electrothermic method of zinc smelting

PERIODICAL: Tsvetnyye metally, no.2, 1963, 25-30

TEXT: This new method was developed by Gintsvetmet and used in the reconstruction scheme of the Belovskiy tsinkovyy zavod (Belovo Zinc Plant). It is claimed that 96% recovery is attainable with this process as compared with 89 to 93% obtained in the horizontal retorts, and that the process is considerably cheaper. Field trials on 1800 kW pilot plant have shown that the productive capacity of the plant is 1.5 times higher than that of a distillation furnace and 4 times higher than that of a vertical retort. The information given in the paper includes: flow-sheet of the process; description of the plant and various stages of the process; composition of the raw materials and intermediate and final products; distribution of zinc and other metals at various stages of the process. The method requires careful control of the particle size of the agglomerate, the best results being obtained with material containing 90 to 95% of the

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

S/136/63/000/002/001/006
E021/E483

Electrothermic method ...

1 to 14 mm fraction with no more than 5 to 15% of the 1 to 7 mm fraction. Before being charged in the reduction furnace, the agglomerate is preheated to 750 - 800°C in a rotary roaster. Smelting is done in a 7.4 x 4.6 x 4.3 m electric furnace, operated under a pressure of 4 to 6 mm H_2O and supplied through two parallel step-down transformers. Losses of zinc in the slag are independent of its silica content but increase with increasing iron oxide content and decrease as the calcium oxide content in the slag increases; the optimum composition of the slag is 7 to 12% FeO, 30 to 32% SiO_2 and 30 to 32% CaO. Condensation is carried out in a jet-type condenser equiped with two graphite stirrers; these are used to produce a mist of molten zinc which greatly facilitates condensation. The optimum temperature of the molten zinc bath in the condenser is 520 to 550°C.
There are 5 figures and 4 tables.

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, A.K.; SMIRNOV, V.I.; [illegible] BLONSKIY, Yu.A.

Electric [illegible] zav. ; tsvet. met. [illegible] 4:96-100 [illegible]

1. Ural'skiy [illegible] tyazhelykh tsvetnykh [illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, A. V.

"Concerning Heat Transfer in Spiral Heat Exchangers." Sub Jul 51, Moscow Inst of Chemical Machine Building

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, A.V., kand.tekhn.nauk, dotsent; ZHILINSKIY, I.B., kand. tekhn. nauk

Use of spiral coil refrigerators in the manufacture of resins. Trudy MIKHM vol.16:72-82 '58. (MIRA 14:7)
(Resins, Synthetic) (Refrigeration and refrigerating machinery)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

VESELOV, Vladimir Aleksandrovich; PINAYEV, A.V., kand. tekhn. nauk, retsenzent; KUBAREV, V.I., inzh., red.; MODEL', B.I., tekhn. red.

[Equipment for manufacturing articles of plastics; thermal analysis] Oborudovanie dlia pererabotki plasticheskikh mass v izdeliia; teplovye raschety. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 211 p. (MIRA 14:9)
(Plastics—Molding)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, G.F.

Metric properties of barycentric constitution diagrams. Zhur. neorg. khim. 9 no.3:726-730 Mr '64.

Transformation of the barycentric scale of the constitution diagrams of multicomponent systems. Ibid.:731-733 (MIRA 17:3)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, G.F.

Plotting the diagrams of composition of reciprodal systems based on weight percentage. Zhur.neorg.khim. 8 no.3:751-757 Mr '63. (MIRA 16:4)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
(Systems (Chemistry)) (Graphic methods)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

LOPATINA, N.I.; PINAYEV, G.P.

Determining protein in urine by means of test papers. Lab. delo 7 no.1:27-29 Ja '61. (MIRA 14:1)

1. Kafedra biokhimii Leningradskogo pediatricheskogo meditsinskogo instituta.
(PROTEINS) (URINE--ANALYSIS AND PATHOLOGY)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

20-4-36/60

AUTHORS Ivanov, I.I. and Finayev G.P.

TITLE On the Mechanism of Contraction and Spontaneous Relaxation of Glycerin Models of Myofibrillae. (O mekhanizme sokrashcheniya i samoproizvol'nogo rasslableniya glitserinovykh modeley mysheohnykh volokon.)

PERIODICAL Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 4, pp. 763-764 (USSR)

ABSTRACT During their work with muscle fibrils macerated in water glycerin media (prepared according to Bendall) the authors made an interesting discovery. It was found that in several cases fibers that were not completely lixiviated by 50 % glycerin posses the capacity to relax spontaneously at a certain load and a certain thickness of the bundle upon addition of ATP and after contraction. Sometimes they contract thereafter and relax again. For this a reduction in load is necessary. Sometimes the models are damaged in the course of expansion and lose part of their contractility. Although several authors mention the possibility of this phenomenon and even noticed it, none of them gave a somewhat clear explanation for it. The authors believe that the relaxation has something in common with the flickering motion of the contractile parts of the cell models of

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

ACCESSION NR: AR4028324 S/0299/64/000/005/R016/R017

SOURCE: Referativnyy zhurnal. Biologiya, Abs. 3R102

AUTHOR: Khenokh, M. A.; Pinayev, G. P.; Kovalova, Ye. A.

TITLE: (3P102) The effect of low temperatures (cryolysis) and ultrasound on solutions of actomyosin

CITED SOURCE: Sb. rabot. In-t tsitol. AN SSSR, no. 4, 1963, 6-13

TOPIC TAGS: actomyosin, freezing, ultrasound, cryolysis, actomyosin denaturation

ABSTRACT: Deep freezing of actomyosin solutions (-78C) caused denaturation dependent on the duration of exposure to the frozen state. The intrinsic viscosity (η) increased from 0.6-0.7 to 2.0. On continued cryolysis (45, 70, 94 hours) the viscosity showed no further change. Although deep freezing caused marked fluctuations in the ATPase activity of actomyosin, the activity was still maintained after prolonged freezing, indicating that the active center of actomyosin is stable to low temperatures. Low temperatures failed to increase the number of titratable SH groups significantly. Ultrasonic treatment (300 cps) produced a decrease in the intrinsic viscosity, an irreversible decrease in ATPase activity, and a decrease in the content of SH groups. M. Kalamkarova.

Card 1/1 DATE ACQ: 27Apr64 SUB CODE: LS ENCL: 00

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, G.F.

NH_4VO_3 field in the systems Na^+, NH_4^+ | Cl^-, VO_3^- - H_2O (1) and Na^+, NH_4^+ | Cl^-, VO_3^- .. (0,1 mol NH_4OH in water) (H) at 10 and 25°C. Zhur.neorg.khim. 10 no.4:965-975 Ap '65. (MIRA 18:6)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

ADAMYAN, S.Ya.; PINAYEV, G.P.

Symposium on Biophysics of the Muscular Contraction. TSitologiia 7 no.5:696-698 S-O '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

KUSHNEROV, V., inzh.; PINAYEV, I., inzh.

Elastic jointless crane tracks. Prom. stroi. i inzh. sooor. 5 no.2:50-52 Mr-Ap '63. (MIRA 16:4)

(Cranes, derricks, etc.—Equipment and supplies)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PUKHAL'SKIY, G.V. kand. tekhn. nauk, [illegible] kand. tekhn. nauk, [illegible]NAYEV, I.V. [illegible].

Single-layer wall panels made from local materials in the Dnieper Valley. Prom. stroi. [illegible] Je '64.

[illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

BITUNOV, V.V., kand.ekon.nauk; PINAYEV, L.G., insh.

Economics of plastics processing in the machinery industry.
Vest.mashinostr. 45 no.11:78-79 N '65.
(MIRA 18:12)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

AUTHOR: Pinayev, [illegible], Electrician [illegible]

TITLE: A Device for the Testing of the Conductors of Control Cables (Pribor dlya prozvonki zhil kontrol nykh kabeley)

PERIODICAL: Energetik, 1959, Nr 1[illegible], pp [illegible] - 24 [illegible]

ABSTRACT: The author describes three current methods of testing the conductors of control cables: 1) by means of an inductor, with the alternate grounding of one of the conductors of the cable being tested with its opposite terminal; 2) by means of two handsets using current from a dry cell; 3) by means of a milliammeter also run off a dry cell. He states that the latter method can only be used when the terminals of the cable are comparatively short and the wires are mounted on panels. The first two methods require the services of two electricians. The author then says that two electricians, S.F. Pinayev and [illegible] Vinogradov, efficiency expense [illegible] electric-repair shop [illegible] of the Leningrad Electricity and Power-engineering System (Lenenergo), have been using a device with which only one electrician is needed. It is designed for testing the conductors of control cables and wires which are not under tension, and is based on the principle that when resistances of varying magnitudes are switched into a circuit consisting of a source of current and a needle

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

SOV-91-58-11-24/35

A Device for the Testing of the Conductors of Control Cables

indicator, the strength of the current in the circuit varies. The device is run off a flashlight battery and can be used for testing control cables with not more than 27 conductors. It is housed in a portable wooden case 350 x 225 x 115 mm. The weight of the instrument and the case is 4.4 kgms. A detailed description of the function and application of the device is given. There are two diagrams.

1. Conductors-test methods

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, V.A.

Pressure of SO_2 over a solution of magnesium sulfite-bisulfite-sulfate. Zhur. prikl. khim. 36 no.10:2116-2121 O '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEV, V.A.

Viscosity and density of solutions of magnesium sulfite-bisulfite-sulfate. Zhur. prikl. khim. 36 no.10:2323-2326 O '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

FINAYEV, V.A.

Stabilization of magnesium sulfite hexahydrate crystals by inhibiting additions of p-phenylenediamine. Zhur prikl. khim. 37 no. 4:898-899 Ap '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut po promyshlennoy i sanitarnoy ochistke gazov (NIIOGAZ).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

GANDEL'MAN, G.M.; PINAYEV, V.S.

Emission of neutrino pairs by electrons and its importance in stars. Zhur.eksp.i teor.fiz. 37 no.4:1072-1078 O '59. (MIRA 13:5)

(Electrons) (Stars)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

ACCESSION NR: AT4019691 S/2555/63/009/000/0176/0187

AUTHOR: Pinayev, V. S.

TITLE: Neutrino processes in stars

SOURCE: AN SSSR. Astronomicheskiy sovet. Voprosy* kosmogonii (Problems of cosmogony), v. 9, 1963, 176-187

TOPIC TAGS: astronomy, astrophysics, neutrino, four-fermion interaction, star, electron, photon, white dwarf, stellar evolution, photon, supernova, electron neutrino interaction, hot star, dense star, neutrino emission

ABSTRACT: Neutrino processes in stars are reviewed. "The author explains that neutrino pairs $\nu\bar{\nu}$ are formed in matter due to weak four-fermion interaction. These $\nu\bar{\nu}$ pairs can be formed in reactions similar to β-decay and also by the direct interaction of electrons and neutrinos. The cross section of the [illegible] of $\nu\bar{\nu}$ pairs is very small, but the free path of the neutrino is many times greater than the star dimensions. Under the same conditions photons have a very small free path. For this reason the energy losses of stars by neutrino pairs can exceed the energy losses by photons. The following subjects are considered in the article: the URCA process, the emission of neutrino pairs during electron-neutrino interactions, the formation of neutrino pairs in Bremsstrahlung proc

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

ACCESSION NR: AT4019691

the photo-neutrino process, the formation of neutrino pairs during annihilation processes, the formation of a neutrino pair by a photon, the transformation of two γ-quanta into a neutrino pair, and a comparison of neutrino losses of energy in the processes considered. Among the observed stars neutrino effects can play an important role in white dwarfs and in the flaring of supernovae. Neutrino emission apparently is unimportant in start of the main sequence. The neutrino mechanism must be taken into account in developing the theory of the structure and evolution of very dense and hot stars. Orig. art. has: 36 formulas and 5 figures.

ASSOCIATION: Astronomicheskiy sovet AN SSSR (Astronomy Council AN SSSR)

SUBMITTED: 23Nov62 DATE ACQ: 12Mar64 ENCL: 00

SUB CODE: AA NO REF SOV: 008 OTHER: 009

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 19624-63 EWT(1)/EWT(m)/FCC(w)/BDS/ES(v) AFFTC/ESD-3 Pe-4 GW

ACCESSION NR: AP3007075 S/0056/63/045/003/0548/0554

AUTHOR: Pinayev, V. S.

TITLE: Some neutrino pair production processes in stars

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 548-554

TOPIC TAGS: neutrino pair production, star, white dwarf, ionized atom recombination, Beta interaction, electron-positron pair production, supernova

ABSTRACT: In addition to the previous assumption that neutrino pairs are produced in stars by direct interaction between electrons and neutrinos, the author considers two new processes: recombination of ionized atoms and beta-interaction of electrons and positrons with nuclei. The reaction cross sections and the neutrino energy losses are calculated. The radiation of star energy via neutrino pairs produced upon recombination of atoms is significant in white

Card 1/2

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L 19624-63

ACCESSION NR: AP3007075

stars, if their central temperature reaches 5--10 keV. The beta interaction of electrons and positrons with nuclei (electron and positron capture of nuclei or beta decay) is accompanied by tremendous losses of energy, which is carried off by the neutrinos (up to approximately 10^{18} erg/g-sec) at temperatures sufficient for electron-positron pair production. The process may be of interest in the study of stars in their last stage of evolution and supernova flares.

ASSOCIATION: NONE

SUBMITTED: 19Jan63 DATE ACQ: 08Oct63 ENCL: 00

SUB CODE: PH, AS NO REF SOV: 008 OTHER: 005

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PRESLER, Kogos Khunovich, inzh.; PINAYEV, V.V., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Packaging and shipment of electric machines and apparatus] Upakovka i transportirovanie elektricheskikh mashin i apparatov; iz opyta zavoda "Elektrosila." Leningrad, 1963. 38 p. (MIRA 16:6)

(Electric machinery--Transportation)
(Electric apparatus and appliances--Transportation)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVA A D

VINTERGAL'TER, S.F.; PINAYEVA, A.D.

Utilization of beta rays in the study of bone structure. Vest. rent. i rad. no.4:53-54 Jl-Ag '54. (MLRA 7:10)

1. Iz kafedry rentgenologii i radiologii (zav. prof. M.N.Podedinskiy) i kafedry operativnoy khirurgii (zav. prof. A.P.Nadein) i Instituta usovershenstvovaniiya vrachey imeni S.M.Kirova (dir. prof. N.N.Mishuk)

(RADIATIONS,
beta, study of bone structure)
(BONES, anatomy and histology,
beta rays technic of study)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVA, G.V.

Effect of prolonged vegetative reproduction on physiological properties of Cl. acetobutylicum. Mikrobiologiia 28 no.4:495-501 Jl-Ag '59. (MIRA 12:12)

1. Institut mikrobiologii AN SSSR.
(CLOSTRIDIUM culture)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

USSR/Microbiology - General Microbiology . Variability and Heredity. F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99286

Author : Pinayeva, G.V.

Inst : AS USSR

Title : Adapted Variability of Acetone-Butanol Bacteria under Conditions of Continuous Propagation.

Orig Pub : Izv. AN SSSR, Ser. biol., 1957, No 4, 503-508

Abstract : Acetone-butanol bacteria were adapted to gradually increased concentrations of butanol under conditions of continuous vegetative propagation, lasting 7 months. A culture was successfully obtained, which was able to propagate itself, with a butanol concentration in the medium of above 2% (in this concentration the unadapted culture dies). The higher the concentration of butanol

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 33103-66 EWT(m)/EWP(w)/T/EWP(t)/EWP(b) IJP(c) JD/JG

ACC NR: AP5025795 SOURCE CODE: UR/0363/65/001/009/1566/1568

AUTHOR: Pinayeva, M. M.; Krylov, Ye. I.; Ryakov, V. M.

ORG: Ural Polytechnic Institute im. S. M. Kirova (Ural'skiy politekhnicheskiy institut)

TITLE: Magnetic properties of gadolinium, dysprosium and holmium oxides and orthotantalates

SOURCES: AN SSSR: Izvestiya. Neorganicheskiye materialy, v. 1, no. 9, 1965, 1566-1568

TOPIC TAGS: magnetic susceptibility, gadolinium compound, dysprosium compound, holmium compound, tantalum compound, paramagnetism, magnetic moment

ABSTRACT: The magnetic susceptibility of Gd_2O_3, Dy_2O_3, Ho_2O_3, $GdTaO_4$, $DyTaO_4$, $HoTaO_4$, and Ta_2O_5 was measured by the Faraday method in the range of 291-1273°K in a vacuum at various magnetic field strengths (8100-10200 Oe). It was found to be independent of the magnetic field strength, and to be adequately described by the Curie-Weiss law (except for $GdTaO_4$), $\chi_M = C/(T - \theta)$ and for $GdTaO_4$ by the Curie law $\chi_M = C/T$. The decrease in the Weiss constant from gadolinium and hol-

Card 1/2 UDC: 546.65'221 + 546.65'883.5

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 13103-66

ACC NR: AP5025795

mium oxides to their orthotantalates is attributed to magnetic dilution. All the orthotantalates studied were strongly paramagnetic. The effective magnetic moments were calculated from the formula

$$\mu_{eff} = g\sqrt{I(I+1)}$$

where g is the Lande factor, and were found to be very close to the experimental values for all the compounds studied. In conclusion, the authors express sincere thanks to G. P. Shveykin for providing the apparatus for measurements of magnetic susceptibility. Orig. art. has: 3 tables, 1 formula.

SUB CODE: 07/ 20/ SUBM DATE: 26May65/ ORIG REF: 004/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 04606-67 EWT(m) EWP

ACC NR: AP6032851 SOURCE CODE: UR/0020/66/170/003/0552/0553

AUTHOR: Pinayeva, M. M.; Shul'gin, B. V.; Krylov, Ye. I.

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: On the luminescence of europium orthotantalate

SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 552-553

TOPIC TAGS: europium compound, luminescence

ABSTRACT: An investigation was made of the luminescence of europium orthotantalate and lanthanum orthotantalate in view of their possible use in lasers. Excitation was produced by ultraviolet light with a wavelength of 265 mμ from the full spectrum of a mercury vapor lamp. A monochromator, a photoelectronic multiplier with high sensitivity in the red region, and an amplifier were used to analyze the luminescence spectrum. All experiments were performed at 300K. In the $EuTaO_4$ spectrum, the strongest line observed was 608 mμ with a 22-mμ halfwidth. Also observed were the 595, 695, 656, and 538 mμ lines (given in the order of decreasing sensitivity). The measurements of $LaTaO_4$ showed high luminescence in the investigated region. Here, the presence of the 608, 538, and 695 mμ lines demonstrates a sufficiently high luminescence intensity of europium contained in the $LaTaO_4$ matrix at a concentration of 0.01%. Because of the lack of a 220-mμ excitation source, the maximum of the excitation

Card 1/2 UDC: 546.651 + 546.883:535.370

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L 04606-67

ACC NR: AP6032851

spectrum of $EuTaO_4$ could not be established. However, an evaluation of the measurements showed that at this excitation level the luminescence output of this material can be close to unity, i.e., twice as high as the estimated output of $LaTaO_4$. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 25Dec65/ ORIG REF: 002/ OTH REF: 007/ ATD PRESS: 5100

Card 2/2 egfr

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 42879-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WG
ACC NR: AP6022891 SOURCE CODE: UR/0078/66/011/004/0728/0731

AUTHOR: Pinayeva, M. M.; Krylov, Ye. I.

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Synthesis and properties of ytterbium and lutetium orthotantalates

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 4, 1966, 728-731

TOPIC TAGS: ytterbium compound, lutetium compound, tantalum compound, magnetic susceptibility

ABSTRACT: The paper continues a study of the properties of compounds of the general formula ABO_4, formed by rare earth elements with the anion of orthotantalic acid. Ytterbium and lutetium orthotantalates were synthesized from the oxides. Measurements of the magnetic susceptibility of Yb_2O_3, Ta_2O_5, and $YbTaO_4$ in the range of 293-1273°K showed that the temperature dependence of the magnetic susceptibility of Yb_2O_3 and $YbTaO_4$ follows the Curie-Weiss law. The effective magnetic moments of Yb^{3+} in Yb_2O_3 and $YbTaO_4$ were found to be respectively 4.38 and 4.36 μ_B. X-ray diffraction analysis of $YbTaO_4$ at room temperature showed the presence of two phases, one monoclinic (with unit cell parameters a = 5.035, b = 10.82, c = 5.23, β = 84°22'), the other tetragonal (with unit cell parameters a = 5.10, c = 10.81). It was found that $LuTaO_4$ also exists in the form of two phases with parameters a = 5.03, b = 10.78, c = 5.23, β = 84°22'

Card 1/2 UDC: 546.883.5'668-31+546.883.5'669-31

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L 42879-

ACC NR: AP6022391

(monoclinic), and a = 5.09, c = 10.79 (tetrahedral). Orig. art. has: 2 figures and 5 tables.

SUB CODE: 07/ SUBM DATE: 30Jul64/ ORIG REF: 004/ OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

[illegible], D.Ye.; [illegible]ZA[illegible]OVA, [illegible].N.; PINAYEVA, [illegible] B.; [illegible]KSAN[illegible]VA, [illegible]

[illegible] and simple electrometric method of determining the sulfate salinization of soils. Pochvovedenie no.2:[illegible]-1[illegible] [illegible] C.

[illegible]

1. [illegible] Moskovskiy [illegible]darstvennyy universitet.
(Saline and alkali soils)
(Soils--Analysis)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

GLEBOVA-KUL'BAKH, G.O.; PINAYEVA, N.I.

New data on the geology and geochronology of the Gormozero region in southern Karelia. Trudy Lab.geol.dokem. no.12:212-23- '61. (MIRA 14:11)

(Karelia—Geology)
(Karelia—Geological time)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

LOBACH-ZHUCHENKO, S.B.; PINAYEVA, N.I.

Absolute age and contact of Archean and [redacted] Protezoic rocks (southern Karelia). Trudy Lab.geol.dokem. no.12:187-211 '61. (MIR 14:11)

(Karelia--Metamorphism (Geology))
(Karelia--Geological time)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVA, S. G.

The Second All-Union Conference on the Preparation and Analysis of High-Purity Elements, held on 24-28 December 1963 at Gorky State University im. N. I. Lobachevskiy, was sponsored by the Institute of Chemistry of the Gorky State University, the Physicochemical and Technological Department for Inorganic Materials of the Academy of Sciences USSR, and the Gorky Section of the All-Union Chemical Society im. D. I. Mendeleyev. The opening address was made by Academician N. M. Zhavoronkov. Some 90 papers were presented, among them the following:

A. T. Pilipenko and S. G. Pinayeva. Determination of 10^{-5}% boron in silicon by extraction spectrophotometry.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

BUDANOVA, L.M.; PINAYEVA, S.N

Photocolorimetric determination of titanium with dichlorochromotropic acid in aluminum alloys containing vanadium. Zav.lab. 29 no.2: 149-151 '63. (MIRA 16:5)

(Titanium—Analysis) (Aluminum-titanium-vanadium alloys)
(Naphthalenedisulfonic acid)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 36928-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6012213 SOURCE CODE: UR/0032/66/032/004/0401/0402

AUTHOR: Budanova, L. M.; Pinayeva, S. N.

ORG: none

TITLE: Determination of beryllium in aluminum alloys with the use of the reagent beryllon IV

SOURCE: Zavodskaya laboratoriya, v. 32, no. 4, 1966, 401-402

TOPIC TAGS: quantitative analysis, beryllium, aluminum containing alloy

ABSTRACT: A comparative study was made of the determination of beryllium in aluminum alloys using "beryllon" reagents II, III, and IV. In the determination, light absorption curves for reagent solutions and their complex compounds indicated that "beryllon" IV is somewhat more sensitive than the other two types. In the reaction of "beryllon" IV with beryllium, the crimson color appears almost instantaneously. The sensitivity of both reagents is about 0.02 micrograms/mg of beryllium. Complete experimental results are shown in a table. The time required for the determination is from 3-4 times less for "beryllon" IV than for the other two types (20-25 min). The accuracy of the method is 0.002%. Orig. art. has: 2 figures and 1 table.

SUB CODE: 07, 11/ SUBM DATE: none/ ORIG REF: 005

Card 1/1 UDC: 543.7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 42385-65 EWT(m)/EPF(n)-2/EPR/EWP(t)/EWP(b) Ps-4/Pu-4 IJP(c) WW/JD/JG

ACCESSION NR: AP5008686 S/0075/65/020/003/0320/0324

35
B

AUTHOR: Budanova, L.M.; Pinayeva, S.N.

TITLE: Photometric determination of cerium and other rare earths by means of arsenazo III

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 3, 1965, 320-324

TOPIC TAGS: cerium determination, rare earth determination, quantitative analysis, colorimetric analysis, arsenazo III, aluminum alloy analysis, magnesium alloy analysis, sulfosalicylic acid, thiburea, phenylarsonic acid, interfering element

ABSTRACT: The authors used arsenazo III to determine cerium, lanthanum, neodymium, and yttrium in aluminum- and magnesium-base alloys. Particular attention was given to eliminating the interference of accompanying elements (aluminum, magnesium, copper, and iron), which were masked by adding sulfosalicylic acid and thiourea; phenylarsonic acid was used to mask zirconium. The complexes formed by arsenazo III with the rare earths were then subjected to photometric analysis. The determination lasts 30 to 40 min. The method can also be used in cases where the alloy contains such pairs of rare earths as Ce-Nd, Ce-La, and Ce-Y. It was thoroughly checked on industrial alloys of complex

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 42385-65

ACCESSION NR: AP5008686

composition, and the results thus obtained are tabulated. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 29Nov63 ENCL: 00 SUB CODE: IC, OP

NO REF SOV: 023 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

L 46240-66 E T(m)/T/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6023919 SOURCE CODE: UR/0363/66/002/007/1248/1253

AUTHOR: Pinayeva-Strelina, M. M.; Dmitriyev, I. A.

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Thermal dissociation of lithium, rubidium, and cesium metaniobates

SOURCE: AN SSSR. Izv. Neorg materialy, v. 2, no. 7, 1966, 1248-1253

TOPIC TAGS: thermal decomposition, niobate, lithium compound, rubidium compound, cesium compound, tantalum

ABSTRACT: The vacuum thermal dissociation of $LiNbO_3$, $RbNbO_3$, and $CsNbO_3$ was studied, and an attempt was made to elucidate the mechanism by which admixtures of metallic tantalum influence the course of the process. The metaniobates were heated at a pressure of the order of 10^{-4} mm Hg up to 1200°C with and without addition of Ta. The [illegible] effect of Ta on the vacuum thermal dissociation was demonstrated, and a [illegible] observed between the dissociation rate and the [illegible] [illegible] was found [illegible] [illegible] Ta [illegible] [illegible] [illegible]

UDC: 546.882.4'311:541.66

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

KRYLOV, Ye.I.; Pinayeva-Strelina, M.M.

Orthotantalates of lanthanum, samarium, and europium. Zhur. neorg. khim. 8 no.10:2254-2257 O '63. (MIRA 16:10)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.
(Tantalum compounds) (Rare earth compounds)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVA, V.M.

Methodology for teaching a foreign language in primary grades. Vop. psikhol. 9 no. 1:128-137 N-D '63. (MIRA 17:4)

1. Pedagogicheskiy institut inostrannykh yazykov, Gorlovka.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

1. FINAYEVSKAYA, E. N., GOLUBSCHENKO, N. F.

2. USSR (600)

4. Phase Rule and Equilibrium

7. Equilibrium in the systems $KF-KCl-H_2O$ and $KHF_2-KCl-H_2O$. Zhur. prik. khim. 26 No. 1, 1953

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

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

Distr: 4E4j

3

27

Freezing points of technical hydrofluoric acids. E. N. Pinaevskaya. *Trudy Ural. Nauch.-Issledovat. Khim. Inst.*, 1956, No. 1, 75-8; *Ref. Zhur., Khim.* 1956, Abstr. No. 18880. Freezing temps. of pure and of tech. HF in various concns. were detd. No definite temp. breaks were observed on freezing curves of acids contg. much H_2SO_4 and H_2SiF_6. For these acids heating curves were drawn on which the beginning and the end of the melting process were marked. J. Mlosiewska

1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVSKAYA, YE. N.

Distr: 4E4J

~~Chromium oxide.~~ A. M. Polyak, E. N. Pinaevskaya, and A. S. Korolaya. U.S.S.R. 107,488, Sept. 25, 1957. Cr_2O_3 is obtained by the thermal decompn. of $(NH_4)_2Cr_2O_7$ to which is added $Na_2Cr_2O_7$ to obtain a heavier product and preventing dusting of the heated mass. M. Hosch

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVSKAYA, Ye.N.

USSR

Equilibrium in KF-KCl-H_2O and KHF_2-KCl-H_2O systems. R. N. Pinayevskaya and N. P. Golubchenko. *J. Appl. Chem. U.S.S.R.* 26, 85-7(1953)(Engl. translation); *Zhur. Prikład. Khim.* 26, 101-4(1953).—The isotherms in the systems at 25° and 75° showed no double-salt or solid-soln. formation. Arthur Fleischer

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVSKAYA, Ye.N.

USSR:

Equilibrium in the systems $FeSiF_6$-H_2O and $CuSiF_6$-H_2O. E. N. Pinayevskaya and L. K. Radosteva. *Sbornik Statei po Obshchei Khim., Akad. Nauk S.S.S.R.* 2, 1232-4(1953).—$FeSiF_6.6H_2O$ is in equil. with the soln. at all temps. $CuSiF_6$ forms a hexahydrate at a lower temp. that is transformed to a tetrahydrate at about 25°. H. M. L.

Refractive indexes of the systems uranium hexafluoride-bromine trifluoride and uranium hexafluoride-bromine pentafluoride. Lawrence Stein and Richard C. Vogel (Argonne Natl. Lab., Lemont, Ill.). *J. Am. Chem. Soc.* 76, 0028-9(1954).—The as of the systems were detd. at 70°. Aubrey P. Altshuller

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PIRAYEVSKAYA, Ye. N. and MAKOSTAVA, L. K.

Equilibria in Systems $FeSiF_6$- H_2O and $CuSiF_6$- H_2O, page 1232, Sbornik Statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

5(2) PHASE I BOOK EXPLOITATION SOV/1916

Vsesoyuznoye soveshchaniye po khimii bora, 1955

Bor; trudy Konferentsii po khimii bora i yego soyedineniy (Boron; Transactions of the Conference on the Chemistry of Boron and Its Compounds) Moscow, Goskhimizdat, 1958. 189 p. Errata slip inserted. 2,500 copies printed.

Ed.: G.P. Luchinskiy; Tech. Ed.: N.S. Lar'ye.

PURPOSE: This book is intended for chemists, as well as for industrial personnel working with boron and its compounds.

COVERAGE: This collection contains 24 studies on the chemistry, crystalline structure, physicochemical properties, and technology of boron and its compounds. Twenty-two of the studies were presented at the All-Union Conference on Boron Chemistry, held at the Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Research Physicochemical Institute im. L. Ya. Karpov) in

~~Boron; Transactions of the Conference (Cont.) SOV/1916~~

December 1955. Two of these articles deal with the thermochemistry of boron. The two studies on "borundum" production are being published for the first time. The studies are well illustrated and accompanied by bibliographies.

TABLE OF CONTENTS:

Boron; Transactions of the Conference (Cont.) SOV/1916

Polyak, A.M., Ye. M. Pinayevskaya, G.B. Romov, N.I. Kozlova, and L.I. Devyatovskaya. Boric Acid Production by the Decomposition of Inderskiye Borates With Mixtures of Nitric and Sulfuric Acids 135

Rasentsev, V.P. Processing of Borates at the Artyuhinsk Chemical Combinat 181

Ratobyl'skaya, L.D. Beneficiation of Certain Boric Ores 185

Nikolayev, A.V., and A.G. Karnakova. Extraction of Boric Acid 157

Shvarts, Ye. M. State of Borates in an Aqueous Solution 162

Krapivner, S.L. A Technical and Economic Comparison of the New Methods for Boric Acid Production from Inderskiye Borates 170

Card 5/6

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

PINAYEVSKAYA, Ye.N.

Obtaining ammonium and magnesium fluosilicates from the fluosilicic acid of superphosphate plants. Trudy Inst. biol. UFAN SSSR no.17: 45-49 '60. (MIRA 14:4)
(AMMONIUM FLUOSILICATES) (MAGNESIUM FLUOSILICATES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

BOLDYREV, V.V.; PINAYEVSKAYA, E.N.; BOLDYREVA, A.V.; ZAKHAROV, Yu.A.; KONYSHEV, V.P.

Effect of preliminary irradiation and chemical treatment on the thermal decomposition rate of silver permanganate. Kin. i kat. 2 no.2:184-187 Mr-Ap '61. (MIRA 14:6)

1. Tomskiy politekhnicheskiy institut imeni S. M. Kirova.
(Silver permanganate)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7

BOLDYREV, V.V.; PINAYEVSKAYA, E.N.; BOLDYREVA, A.V.; ZAKHAROV, Yu.A.; KONYSHEV, V.P.

Effect of preliminary irridation and chemical treatment on the thermal decomposition rate of silver permanganate. Kin. i kat.2 no.2:184-187 Mr-Ap '61. (MIRA 14:6)

1. Tomskiy politekhnicheskiy institut imeni S. M. Kirova.
(Silver permanganate)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910015-7"