

REF ID: A66000  
EWT(m)/EWP(t)/EWP(b) I P(c)/ESP(t)/ESP(b)/SSD APWL JD/RH  
ACCESSION NR: AP4048310 S/0292/64/000/011/0044/0046

AUTHOR: Karany\*sheva, A. F. (Engineer); Krutyakova, M. O. (Engineer)

TITLE: Hall generators of indium arsenide films

SOURCE: Elektrotehnika, no. 11, 1964, 44-46

TOPIC TAGS: Hall device, indium arsenide, mica, pyroceram, Hall genera-  
tor

ABSTRACT: This paper presents a method for obtaining a thin indium arsenide film for Hall generators. The method is based on the "three-temperatures" process in which a surface of condensation is subjected to the vapor streams of two separate elements, as described by Von K. J. Dunter "Aufnahmefähigkeit von Halbleitenden Materialien". "Z. Naturforschung", 13a, 1958). In this experimental work mica was used for the condensation plates up to 500C, and silicon for photoconductive plates above this temperature. The films were found to be electronically conductive, adhered well to the condensation surfaces, and were electrically continuous. The contacts between the films and electrical leads were produced by vacuum precipitation of silver. The generators were checked experimentally for the electrode resistance, the relation between the voltage ( $U_H$ ) and the magnetic field induction

119191-85

ACCESSION NR: AP4048310

(R), the temperature coefficient of the voltage, the relation between the resistance of current leads and B, and the nonlinearity coefficient in the basic equation  $V = E - IR$ . The parameters determined in these experiments were tabulated. It was established that these generators are 3 to 4 times more sensitive than generators of crystalline plates of indium arsenide and are twice as sensitive as generators of polycrystalline germanium. Their output signals and sensitivity were nearly only slightly with the temperature. They are characterized by the stability of their output signals, and they are highly efficient. The above characteristics make these generators applicable to measurement technology. Fig. 1 and 2 show figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EM, SS

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3146

Card 2/2

KRUTYAKOVA, V.A.

Diphtheria control in Leningrad, 1947-1957. Vop.okh.mat. 1 det. 3  
no.3:69-74 My-Je '58. (MIRA 11:5)

1. Iz Leningradskoy gorodskoy sanitarno-epidemiologicheskoy stantsii  
(glavnyy vrach N.G. Grigor'yeva).  
(LEN INGRAD--DIPHTHERIA)

ROZOVSKIY, N.V., prof. (Krasnoyarsk, prospekt Mira, d.37, kv.22);  
KRUTYANSKAYA, K.S.

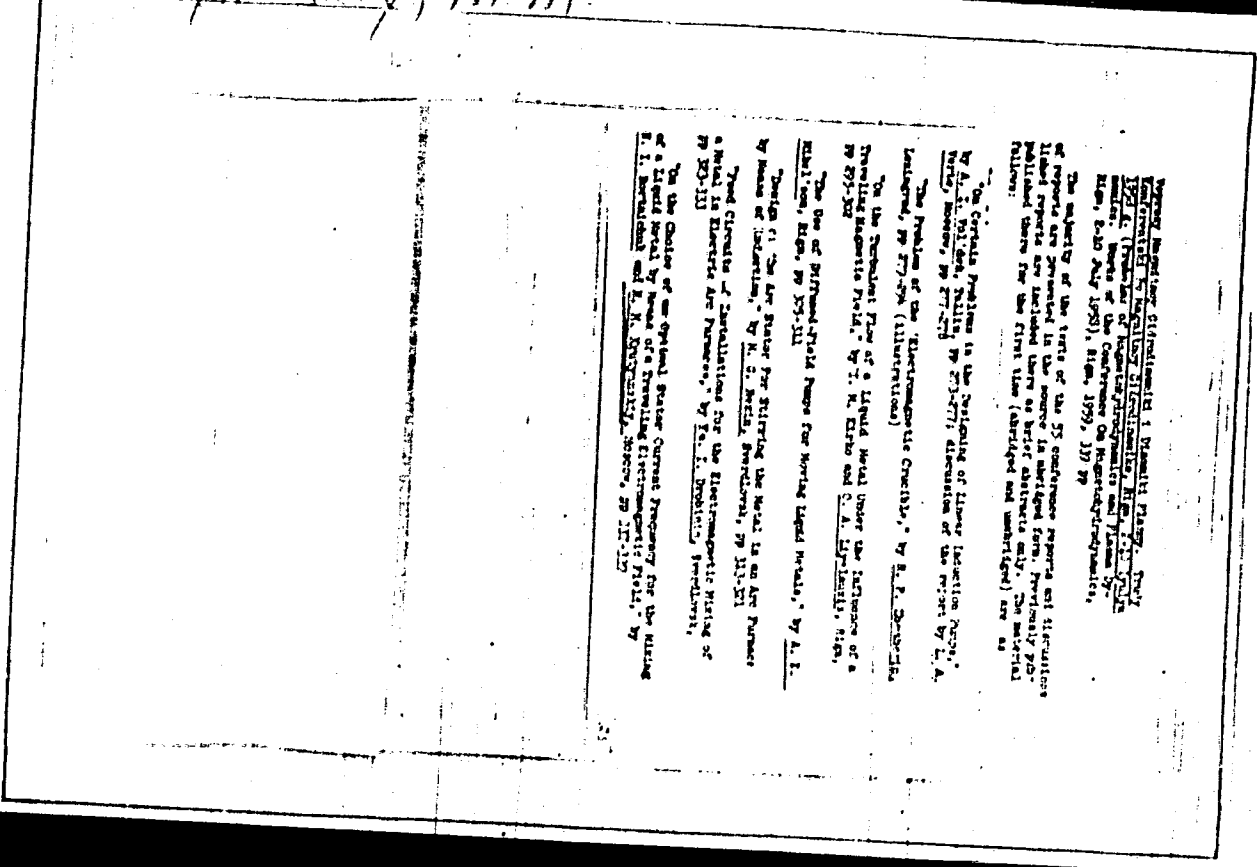
Treatment of patent ductus arteriosus in children. Vest.  
Khir. 91 no.12:73-76 D '63. (MIRA 17:9)

1. Iz gosptal'noy khirurgicheskoy kliniki (zav.-prof.  
N.V. Rozovskiy) Krasnoyarskogo meditsinskogo inatituta baza  
krayevoy klinicheskoy bol'nitsy No.1 (glavnyy vrach - V.K.  
Sologub).

RODOV, Abram Solomonovich; KRUTYANSKIY, David Il'ich; SAAK'YAN,  
Yu.A., red.

[Plan, flow, and rhythm] Plan, potok, ritm. Rostov-na-  
Donu, Rostovskoe knizhnoe izd-vo, 1964. 70 p.  
(MIRA 18:8)

*K. Rulyaevskiy, M. M.*



Report Number: Electromagnetic 1. Material: Paper, 1957  
 Title: Problem of Negative Photoresistivity in Liquid Metals  
 Author: Yu. I. Izrael, V. I. Kuznetsov, and V. I. Lashin  
 Date: Feb 1958, High. 1959, 117 pp

The subject of the title of the 55 conference reports and abstracts listed reports are presented in the source in abbreviated form. Periodicals published therein are included in the brief abstracts only. The material follows:

The Certain Problems in the Study of Linear Selection Coeff. by L. S. Pilyuk, Sov. Phys. JETP, 27(1968), 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

The Problem of the Electromagnetic Coefficient, by L. P. Zhurav, Sov. Phys. JETP, 27(1968), 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539</

ser/7762

FORM 1 BOOK REFERENCE

Вопросы магнитной гидродинамики. Рига, 1978.  
 (Problem in Magnetohydrodynamics and Plasma Dynamics; Translations of a  
 Seminar) Riga, Institute of Physics, 1979. 34 p.  
 Originally limited, 1,000 copies printed.

Sponsoring Agency: Akademiya Nauk Latvijas SSR, Dzinertis Instit.  
 Material Source: B.S. Prushchinskii, Doctor of Physics and Mathematics,  
 Professor; A.I. Volynskii, Doctor of Technical Sciences, Professor; Z.M. Kirin,  
 Doctor of Physics and Mathematics; V.S. Volynskii, Candidate of Physics and  
 Mathematics; V.G. Pikel, Candidate of Physics and Mathematics; D.M. Shvabitskiy,  
 and V.S. Kuvshinov.

Dr. A. Ryzhakovskiy, Tech. M.S. A. Elperin

REMARKS: This note is intended for reference writing in the field of magnetohydrodynamics and plasma dynamics.

This volume contains the translations of a conference held in Riga, June 1978, on problems in applied and theoretical magnetohydrodynamics. The original and abstracts were the investigation of the basic trends in these people doing related magnetohydrodynamics, establishing the links between the promoting the parties in different branches of magnetohydrodynamics, and magnetohydrodynamics. Most of theoretical physicists in problems, and this book part in the conference, and 53 papers were read. Similar conferences are to be held regularly in the future, and 53 papers were read. Similar conferences are held in Riga in June 1980. In total, the next such conference is scheduled to be held in Riga in June 1980. The book is divided into two parts: the first part deals with problems in theoretical magnetohydrodynamics and plasma dynamics, and the second part deals with problems in applied magnetohydrodynamics and plasma dynamics. The book is divided into two parts: the first part deals with problems in theoretical magnetohydrodynamics and plasma dynamics, and the second part deals with problems in applied magnetohydrodynamics and plasma dynamics. The book is divided into two parts: the first part deals with problems in theoretical magnetohydrodynamics and plasma dynamics, and the second part deals with problems in applied magnetohydrodynamics and plasma dynamics.

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KRUTYANSKIY, Mikhail Mironovich; NIKULIN, Aleksandr Aleksandrovich;  
MOLDAVER, Valeriy Aleksandrovich; TSISHEVSKIY, V.P., red.

[Use of plasma heating systems] Primenenie plazmennogo na-  
greva. Moskva, Energiia, 1964. 77 p. (Biblioteka elektro-  
termista, no.18)  
(MIRA 17:11)



KRUT'YEV, K. U.

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry  
Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63358

Author: Krut'yev, K. U., Lyubarskaya, L. S.

Institution: None

Title: Experience with Operation of Filter-Traps for Wash Purification

Original

Periodical: Gidroliznaya i lesokhim. prom-st', 1955, No 1, 20-21

Abstract: It is recommended to use at hydrolysis plants annular filter-traps (F) designed by A. T. Chumadurov, A. G. Kyuneman and A. U. Sorochuk, for the purification of wash from bark and other large size admixtures. A defect of F is the great weight of the component parts.

1. Leningradskiy gidroliznyy zavod  
(filters and filtration) (Wood distillation)

Card 1/1

ZAYTSEV, B.M.; ADAMOVICH, Ye.A.; KRUT'YEV, K.U.; VODOLAZOV, Yu.M.; SIDOROV, A.I.

Lining hydrolyzers with coal-graphite slabs. *Gidreliz. i lesekhn.prom.*  
9 no.2:17-18 '56. (MIRA 9:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidreliznoy i sul'fitno-  
spirtovoy promyshlennosti (for Zaytsev, Adamevich). 2. Leningradskiy gidre-  
liznyy zavod (Krut'yev, Vodolazov, Sidorov).  
(Hydrolysis)(Chemical engineering--Apparatus and supplies)

KRUP'YEV, K. U. and A. M. SHIRYAYEV

"Overall Utilization of the Waste Products of Hydrolytic Processes - A Way of Reducing Production Costs"

The Kirov District of Leningrad Strives for Technological Progress; Collection of Articles, Leningrad, Sudpromiz, 1957. 171pp.

This collection of articles describes the progressive experience of the industrial plants of the Kirov district of the city of Leningrad in the fields of shipbuilding, machine building, instrument-making, casting, hydrolytic and other industries. New manufacturing methods are discussed.

LIPATOVA, P.K., dotsent; KRUT'YEVA, L.K., vrach

Artificial nitrogen baths in the treatment of hypertension. Nauch.  
trudy L'vov.obl.terap.ob-va no.1:280-283 '61. (MIRA 16:5)

1. L'vovskaya oblastnaya bal'neologicheskaya bol'nitsa (glavnyy  
vra' - Ye.F. Solyakina) i kafedra fakul'tetskoy terapii lechebno-  
go fak.'teta L'vovskogo meditsinskogo instituta (sav. kafedroy -  
prof. S.F. Oleynik),  
(HYPERTENSION) (NITROGEN—THERAPEUTIC USE) (BATHS, MEDICATED)

KRUTYKH, A.; FERAPONTOV, G.; KRAVCHENKO, V., starshiy nauchnyy sotrudnik

Improve the efficiency of the car exchange pool. Mor. flot. 24 no.8;  
6-8 Ag '64. (MIRA 18:9);

1. Starshiy insh. otdela portov Gosudarstvennogo proyektno-konstruktor-  
skogo i nauchno-issledovatel'skogo instituta morskogo transporta (for  
Krutikh). 2. Starshiy konsul'tant otdela organizatsii kommercheskoy  
raboty Glavnogo gruzovogo upravleniya Ministerstva putey soobshcheniya  
(for Ferapontov). 3. Institut kompleksnykh transportnykh problem Gosudar-  
stvennogo nauchno-ekonomicheskogo soveta Soveta Ministrov SSSR (for  
Kravchenko).

KRUTYKH, A., inzh.

Freight transshipment by the direct alternative in the Novorossiisk harbor. Mor. flot 22 no.7:4-6 J1 '62. (MIRA 15:7)

1. Otdel ekspluatatsii morskikh portov Gosudarstvennogo proyektno-konstruktorskogo i nauchno-issledovatel'skogo instituta morskogo transporta.

(Novorossiisk--Loading and unloading) (Railroads--Freight)  
(Ships--Cargo)

KRUTYPOROKH, F. I. Cand Agr Sci -- (diss) "~~the~~ Loss of Piglets <sup>during</sup> ~~at~~  
Farrowing and <sup>combating</sup> ~~the~~ Ways of Counteracting It." Khar'kov, 1957.  
12 pp 20 cm. (Min. of Agriculture USSR, Khar'kov Zootechnical Inst),  
100 copies (KL, 19-57, 87)

- 14 -

*Krutyporokh, F.I.*

USSR/Farm Animals - Swine

Q-5

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26209

Author : Krutyporokh F.I., Sirov P.I.

Inst : Not Given

Title : The Influence of the Conditions of Nutrition and Maintenance on Swine with Young (Vliyeniye usloviy kormleniya i soderzaniya na suprosnykh svinomatok)

Orig Pub : Svinovodstvo, 1957, No 6, 33-36

Abstract : Two groups of swine, 9 heads in each, were compared. The average deliveries of the control sows contained the following nutritive substances: digestible protein 350 g., Ca 13 g., P 15 g., carotene 27 mg., and food units 3.5; the rations of experimental sows were, respectively: 430, 59, 34, 244, 4.3. The control animals were let to pasture for 6 hours in the mornings and evenings. The fertility of experimental sows increased by 2.6 pigs per farrowing and the number of stillborn decreased by 2.5 pigs per litter; the average weight of the pigs born from these sows was higher at birth by 183 g., as compared with the controls.

Card : 1/1



KRUTYPOROKH, P.; SMIRNOV, V.

Housing construction on the "Kalachevskii" State Farm. Sel', stroi.  
12 no.3:11-12 Mr '58. (MIRA 11:3)

1. Direktor sernosovkhozа "Kalachevskiy" Voronezhskoy oblasti  
(for Krutyporokh). 2. Proisvoditel' rabot sernosovkhozа  
"Kalachevskiy" Voronezhskoy oblasti (for Smirnov).  
(Voronezh Province--Farm buildings)

*KIKETYPOROKH, F. I.*

USSR/Farm Animals - Cattle.

Q-2

Abs Jour : *Russkoye - Biol.*, No 1, 1955, 2679

Author : KIKETYPOROKH, F.I.

Inst :

Title : Effectiveness of Autumn Calvings of Cows.

Orig Pub : *Zhivochnozodstvo*, 1953, No 3, 11-14

Abstract : The shift to autumn calving in cows (10 head) increased their milk yield in 1955 by 72.4 kg and their butterfat yield by 24.9 kg and in 1956 by 398 and 13.3 kg respectively. The first calvings occurring in September-November yielded during lactation 500-700 kg of milk more than the first calvings occurring in January-March. Upon evaluation, the former were included into the elite class and into record class; and the latter into classes I and II.

Card 1/1

KRUTYPOROKH, F., kand.sel'skokhozyaystvennykh nauk; SMIRNOV, V.

Efficient use of space in houses for fattening swine. Sel',  
stroi. 13 no.3:8-9 Mr '59. (MIRA 12:5)

1. Direktor sovkhosa "Kalachevskiy," Voronezhskoy oblasti (for  
Krutyporokh). 2. Proizvoditel' rabot sovkhosa "Kalachayevskiy."  
Voronezhskoy oblasti (for Smirnov).  
(Swine houses and equipment)

KRUTYPOROKH, P.I., kand.sel'skokhoyaystvennykh nauk

Preserving grain corn with high moisture content for forage purposes. Zhivctnovodstvo 21 no.6:71-72 Je '59. (MIRA 12:8)

1. Direktor sernosovkhozsa "Kalachevskiy," Voroneshskoy oblasti.  
(Corn(Maise)) (Ensilage)

POLEVODA, G.; KRUTYPOROKH, F., kand.sel'skokhoz.nauk; FEDOROV, N.; VOLODIN, I.

Letters to the editor. Sel'.stroil. 15 no.9:30 S '60.

(MIRA 13:9)

1. Direktor Udmurtskoy shkoly stroitel'nykh masterov (desyatnikov)  
(for Polevoda).
2. Direktor Penzenskogo lespromkhoza (for Fedorov).
3. Sekretar' partorganizatsii Penzenskogo lespromkhoza (for  
Volodin).

(Building)

1957, No 2-3, 17-19

COUNTRY : USSR  
CATEGORY :

M-4

ABS. JOUR. : RZBiol., No. 2, 1959, No. 87001

AUTHOR : Krutyy, R.S.; Piven', N.I.; Dmitriyev, n.V.;  
INST. : L'vov Institute of Commerce Economics  
TITLE : Variability of Chemical Composition of  
Wheat Grain Within the Same Ear.

ORIG. PUB. : Zap. nauchn. stud. o-va L'vovsk. torgo-  
ekonom. in-t, 1957, No 1, 48-51

ABSTRACT : A study was made of variations in weight  
of wheat grains, and in their contents of moisture, ash,  
and crude protein, within the same ear. Grains in the  
middle part of the ear have the highest weight, those in  
the top part -- the lowest. Differences within the same  
ear were also observed in the other indices, but these  
differences vary in the different varieties.

CARD: //

\*Bunik, O.D.; Stadnik, Ye.I.

KRASNA, V.; SYNKOVA, J.; Technicka spoluprace: JURAJDOVA, J.;  
KRUTZNER, E.; WITZOVA, D.

Contribution to the study on the effect of pollution of the  
atmosphere with cancerogenous substances on the occurrence of  
bronchogenous carcinoma. Cesk. hyg. 8 no.6:320-327 JI '63.

1. HES-NV Praha.

(AIR POLLUTION) (SMOKING)  
(CARCINOMA, BRONCHOGENIC) (BENZOPYRENES)  
(HYDROCARBONS) (ARSENIC)

PARVE, Valdar, dots., kand. vet. nauk; KRUUS, A., red.; LUMET, E.,  
tekm. red.

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RIDALA, E., tekhn. red.

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principles of winter feeding and new feed rations] Pi-  
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prof.; KRUUS, A., red.; VAHTRE, I., tokhn. red.

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POLNA, Hugo, kard. tehnik. muk; RIIU, A., red.

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silos] Töökulu ja söödakadude vähendamise silohoidlates.  
Tallinn, Eesti Raamat, 1965. 108 p. [In Estonian]  
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Uncl.

YATSUNSKIY, V.K., doktor istor. nauk, otv. red.; SKAZKIN, S.D., akad.,  
red.; KRUUS, Kh.Kh., red.; NIFONTOV, A.S., doktor istor. nauk,  
red.; USEYUGOV, N.V., doktor istor. nauk, red.; KAKHE, Yu.Yu.,  
kand. istor. nauk, red.; MAAMYAGI, V.A., kand. istor. nauk, red.;  
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1961. 457 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Institut istorii. 2. Chlen-korrespondent  
AN SSSR (for Kruus) (Europe, Eastern-- Agriculture)

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KRUUS, V. Production of succulent fodder on peat soils. p. 109.

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Experiences in using opensurface method of preparing ensilage. p.546

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Kruusmaa, H.

The powers of the village soviet should be widened. p. 75

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Uncl.



KRULSAMACI, A.

Produkty pererabotki goruchego slantsa v kachestve sviazuluchotikh dosavok  
v liteinom proizvozhdenii.

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W. S. ...

Hydrocarbons

Role of oxygen-containing compounds in the synthesis of hydrocarbons from carbon monoxide and hydrogen. Izv. AN SSSR. Otd. khim. nauk no. 4, 1952.

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CA KRYKOVA, N-N.

11 b

Formation of tannins in tea leaves. Synthesis of phloroglucinol. N. N. Krykova. *Russkaya Khimiya Travn* (Russian, *Journal No. 5, 25-26*) (1946) (English summary). Phloroglucinol synthesis can be experimentally shown with infiltration of sugars (sucrose, inositol) into the leaves. Sucrose gives pos. results probably through lability of fructofuranose. Since light has no definite effect on the process, the primary formation of tannins in photosynthesis does not occur. The synthesis from inositol proceeds even more readily than from sucrose. G. M. Kosolapoff

KRUYKOVA, T. A.  
CA

Two types of action of surface-active organic substances on an electrochemical reaction taking place at a dropping-mercury electrode. T. A. Kravtsova (Acad. Sci. U.S.S.R., Moscow). *Zhur. Fiz. Khim.* 24, 437-44 (1950); cf. C.A. 43, 9052c. A surface-active impurity can reduce the c.d.  $i$  at liquid electrode (a) by breaking the surface movement of the electrode; and (b) by forming an adsorption layer in which the diffusion is slow. To eliminate effect a, slowly formed Hg drops were used, produced by applying 120 mm. Hg pressure to a capillary 215 mm. long and 0.063 mm. wide. At this electrode,  $i$  in 0.001  $M$   $K_2S_2O_8$  +  $N$   $Na_2SO_4$  was almost independent of the voltage between 0 and  $-1.5$  v. (referred to  $N$  HgCl electrode) and almost equal to the diffusion current at each, according to Ilkovic if the diffusion const. of  $S_2O_8^{2-}$  is assumed to be  $1.04 \times 10^{-5}$  sq. cm./sec. When  $n$ - $C_{11}H_{21}OH$  (I) was added to this soln.,  $i$  was reduced in the neighborhood of  $-0.6$  v. (i.e., electrocapillary max.); the width and the depth of this depression increased with the concn. of I, and  $i$  was almost zero between  $-0.3$  and  $-0.9$  v. when the soln. was satd. in respect to I. When the Hg pressure was 400 mm. and the tangential movement

of the drop surface was important,  $i$  in the absence of I was 5.5 microamp. at  $-0.6$  v. and about 2.2 microamp. at 0.3 and  $-1.5$  v.; the theoretical diffusion current was also 2.2 microamp. Addn. of I lowered  $i$ . At  $-0.6$  v.,  $i$  was a linear function of log concn. of I as long as  $i$  was greater than 2.2 microamp.; between  $2 \times 10^{-4}$  and  $10^{-5} M$  I,  $i$  was 2.2, and then decreased to zero in  $2 \times 10^{-5} M$  I. The reduction of  $i$  from 5.5 to 2.2 was due to cause (a), and the further reduction to cause (b). BuOH lowered  $i$  from 5.5 to zero almost without a stop at 2.2. In a soln.  $10^{-4} M$   $K_2S_2O_8$  +  $3 N$   $KCl$  +  $0.1 M$  BuOH,  $i$  was less than in the presence of greater or smaller concns. of BuOH. The BuOH adsorption film retards  $S_2O_8^{2-}$  ions when one mol. of BuOH occupies 85 A<sup>2</sup>. and stops them when one mol. occupies 20 A<sup>2</sup>.

KRUZ, J.

"Fundamental discoveries in the field of physiological optics made by J. E. Purkyne in the first decades of the 19th century. p. 256." (CASOPIS LEKARU CESKYCH, Vol. 92, no. 30/31, July 1953, Praha, Czechoslovakia.)

CO: East European, L. C. Vol. 2, No. 12, Dec. 1953

KRUZ, Velimir, prof.

Good condition of a construction in view of the strength  
of materials. Pogon 5 no. 1/2:15-18 Ja-F '64.

S/179/60/000/03/012/039  
E081/E441

AUTHORS: Kruz, Z. and Savchuk, A. (Varshayea); V. S. Chernina, Author  
TITLE: Bearing Capacity of a Ring-Shaped Plate, Clamped on <sup>10</sup> Comments  
Both Edges  
PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh  
nauk, Mekhanika i mashinostroyeniye, 1960, Nr 3,  
pp 72-78 (USSR)  
ABSTRACT: The paper is a continuation of earlier work (Ref 3).  
The problem has been previously investigated in Ref 2  
and 3, among others. The results of these two  
investigations do not agree because Chernina (Ref 2) did  
not take the flow conditions completely into account.  
In the present paper, the material of the plate is  
assumed to be rigid-plastic without hardening and to be  
subject to the Mises-Tresca plasticity conditions. The  
radial and tangential bending moments are M and N  
respectively. The generalized deformation velocities  
are given by Eq (1.1), where w is the deflection  
velocity, and assuming the existence of a plastic  
potential, the flow law is such that the deformation  
velocity vectors are perpendicular to the Coulomb-Tresca

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S/179/60/000/03/012/039  
EO81/E441

Bearing Capacity of a Ring-Shaped Plate, Clamped on Both Edges

hexagon (Fig 1). For a plate with both edges freely supported, the analysis of Section 2 leads to Eq (2.15) for the bearing capacity of the plate, where  $q$  is the uniform load on the plate. For a plate rigidly fixed at the outer boundary, freely supported at the inner (Fig 3), the static field is given by Eq (3.1); the equations (3.2) determine the radii  $\rho_1, \rho_2, \rho_3$  in the non-dimensional form  $a/b = k, \rho_1/b = x_1, \rho_2/b_2 = x_2, \rho_3/b = x_3$ ; the bearing capacity is given by Eq (2.15); the kinematic field is given by Eq (3.3). For a plate fixed on the internal boundary, freely supported on the outer (Fig 4), the static field is given by Eq (4.1); the radii by Eq (4.2); the bearing capacity by Eq (4.3) and the kinematic field by Eq (4.4). For a plate clamped on both boundaries (Fig 5), the static field, the radii and the bearing capacity are given by Eq (5.1), (5.2) and (5.3) respectively. Fig 6 gives the curves of limiting load  $\varphi = qb^2 / M_0$  for a plate supported on both boundaries (curve a); for a plate clamped on the external boundary and freely supported on the internal

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Card 2/3

S/179/60/000/03/012/039  
E081/E441

Bearing Capacity of a Ring-Shaped Plate, Clamped on Both Edges boundary (curve b); and for a plate clamped on the internal boundary and supported on the external boundary (curve B). There are 6 figures and 4 references, 2 of which are Soviet, 1 Polish and 1 English.

Comments to this article by V.S.Chernina

The author of the comments notes that simultaneously with the solution given by Z. Kruz and A. Savchuk of the problem defined in the title, the same solution was obtained by P.G.Hodge (Yield Point Load of an Annular Plate, J.Appl.Mech, Sept 1959). A correction is introduced into a previous paper by the author of the comments (The Carrying Capacity of an Annular Plate Loaded by a Uniformly Distributed Pressure, Izvestiya Akademii nauk SSSR, OTN, 1958, Nr 7). The author acknowledges that the bearing capacity derived in her abovementioned paper is a lower limit only.

SUBMITTED: May 25, 1959

Card 3/3

VC

RUZANOV, A.G.

"Shale Distillation Products as Binding Agents in the Casting Industry." Cand  
Chem Sci, Tallin Polytechnic Inst, Tallin, 1954. (RZhKhim, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (13)  
SO: Sum. No. 598, 29 Jul 55

KRUZAMYAGI, A.G.

S/125/60/000/021/003/00.,  
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 21, p. 196,  
# 116743

AUTHOR: Kruzamyagi, A. G.

TITLE: The Sublimation Products of Shale as Binding Admixtures in Foundry  
Practice

PERIODICAL: Sb. statey po formovochn. materialam, Moscow, 1958, pp. 50-58

TEXT: The binding and technological properties of the heavy fraction of shale tar were investigated, and the possibilities were elucidated as to improvement of these properties. It turned out that the oxidation of the shale tar by molecular atmospheric oxygen increases its binding capacity by up to 80% in strength. Mixtures with argillo-sulfite emulsion of oxidized resin have less adherence than with ГТФ (GTF), and they are useful for the production of cores of classes I and II. Formaldehyde shale tars yield mixtures with good puncturability, low adherence, high permeability to gas, and ingots with smooth surface. If combining the formation process of formaldehyde shale with the drying process of

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3/123/00/000/021/003/004  
A005/A001

The Sublimation Products of Shale as Bining Admixtures in Foundry Practice

the cores, quick-drying mixtures are obtained not inferior to the binder MP-17 (MP-17) and to water glass. Resins of light fractions of acid compounds (with the boiling point up to 220°C, which consist in the main of the cresol-xyleneol fraction) are suitable in powder-like form for the production of shell molds. There are 9 references.

A. M. G.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

LEWENFISZ-WOJNAROWSKA, T.; KRUZE, Danuta; SZUKALSKI, Bogdan;  
ZAORSKA, Barbara

A combined column-paper chromatographic method in the study of urinary amino acids in children with nephrosis. Polski tygod. lek. 16 no.31: 1181-1185 31 J1 '61.

1. Z Zakladu Chemii Ogolnej A.M. w Warszawie; kierownik: prof. dr P. Wierzchowski i z II Kliniki Pediatrycznej A.M. w Warszawie; kierownik: prof. dr med. T. Levenfisz-Wojnarowska.

(AMINO ACIDS urine) (NEPHROSIS urine)

WIERZCHOWSKI, P.; JANCZARSKI, I.; KRUZE, D.

The method of combined column-paper chromatography applied to the determination of amino acids. Acta biochim. pol. 9 no.4:343-349 '62.

1. Department of General Chemistry, Medical School, Warszawa.  
(AMINO ACIDS) (CHROMATOGRAPHY)



KRUZE, Dariusz; SZUKALSKI, Bogdan

Amino acids in the cerebrospinal fluid. Pol. arch. med. wwn.  
33 no.3:297-311 '63.

1. Z Zakladu Chemii Ogolnej AM w Warszawie Kierownik: prof.  
dr med. P. Wierschowski i z Kliniki Chorob Wewnetrznych Cen-  
tralnego Szpitala MON.

{ CEREEROSPINAL FLUID) (AMINO ACIDS)  
{ HEMATO-ENCEPHALIC BARRIER) (GLUTAMATES)

KRUZE, Dariusz; SZUKALSKI, Bogdan

Composition of free amino acids in the cerebrospinal fluid.  
Pol. arch. med. wewn. 33 no.5:503-510 '63.

1. Z Katedry I Kliniki Chorob Wewnętrznych 2 Centralnego  
Szpitala Klinicznego Kierownik: prof. dr med. S. Bober Z  
Zakładu Chemii Ogólnej AM w Warszawie Kierownik: prof. dr  
P. Wierschowski.

(CEREBROSPINAL FLUID) (AMINO ACIDS)  
(ENURESIS) (SCIATICA) (POLYRADICULITIS)

WIERZCHOWSKI, Piotr; KRUZE, Dariusz; SZUKALSKI, Bogdan; ZIOLECKA, Izabela

The fractionation of tuberculin by salting out on the starch column.  
Postepy biochem 7 no.1:41-48 '61.

(TUBERCULIN chem) (PROTEINS chem)

BOBER, Stanislaw; DAWIDOWICZ, Aleksander; DABROWA, Romuald; IWANSKA, Janina;  
KRUZE, Dariusz; SKRZYPCZYK, Ewa

Studies on the level of free amino acids in the blood serum in patients  
with diabetes with the use of the method of paper column chromatography.  
Pol. arch. med. wewnet. 32 no.8:879-889 '62.

1. Z Kliniki Chorob Wewnętrznych Centralnego Szpitala Klinicznego w  
Warszawie Kierownik Katedry i Kliniki prof. dr med. S. Bober.  
(DIABETES MELLITUS) (AMINO ACIDS)  
(BLOOD CHEMICAL ANALYSIS)

BOBER, Stanislaw; KRUZE, Dariusz; DABROWA, Romuald; IWANSKA, Janina;  
SKRZYPCZYK, Ewa

Quantitative determination of free amino acids in the blood serum in  
normal subjects by means of column-paper chromatography. Polskie  
arch. med. wewn. 32 no.5:443-454 '62.

1. Z Katedry i Kliniki Chorob Wewnętrznych Klinicznego Centralnego  
Szpitala W.K.M. Kierownik: prof. dr med. S.Bober.  
(AMINO ACIDS blood) (CHROMATOGRAPHY)

KRUZE, Darluz; SZUKALSKI, Bogdan

The pituitary hormones. Kestepy bioshen. 10 no. 4: 176-190 1974

KRUZE, Dariusz; SZUKALSKI, Bogdan

Comparative studies on alpha-amino nitrogen and free amino acids in the cerebrospinal fluid in normal subjects and in epilepsy. Neurol., neurochir., psychiat. Pol. 14 no.3:431-438 My-Je '64.

1. Z Zakladu Chemii Ogolnej Akademii Medycznej w Warszawie (Kierownik: prof. dr. P. Wierzchowski) i z Katedry i Kliniki Chorob Wewnetrznych Szpitala Klinicznego Wojskowej Akademii Medycznej (Kierownik: prof. dr. med. S. Bober).

KRUZE, Dariusz; IWANIEA, Janina; BOBER, Stanislaw

Amino acid content of gastric content in healthy subjects and patients with gastric disease. Pol. arch. med. wewn. 34 no.9:1229-1236 '64.

1. Z Katedry i Kliniki Chorob Wewnętrznych 2 Centralnego Szpitala Klinicznego Wojskowej Akademii Medycznej w Warszawie. (Kierownik: prof. dr. med. S. Bober).



KRUZE, E.E.; BAKLANOVA, I.A.; KITANINA, T.M.; PLYUKHINA, M.A.;  
TITOVA, A.N.; VYATKIN, M.P., otv. red.; GOL'DBERG, N.M.,  
red.izd-va; KRUGLIKOVA, N.A., tekhn. red.

[Monopolies in the metal industries of Russia from 1900 to  
1917; documents and materials] Monopolii v metallurgicheskoi  
promyshlennosti Rossii, 1900-1917; dokumenty i materialy.  
Moskva, Izd-vo Akad. nauk SSSR, 1963. 653 p. (MIRA 16:7)

1. Akademiya nauk SSSR. Institut istorii. Leningradskoye  
otdeleniye.

(Iron industry) (Steel industry) (Copper industry)

KRUZE, I., kand. tekhn. nauk, dotsent

Thirty years later. Za rul. 20 no.5:20 My '62. (MIRA 16:4)

1. Moskovskiy inshenerno-ekonomicheskij institut.

(Moscow—Traffic safety)

KRIZE, I. A.

Garazhnoe oborudovanie (Garage equipment). Moskva, Mashgiz, 1950. 120 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

CRUZE, I. L.

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TUSHKANOV, Boris Andreyevich, inzh. BOCHAROV, Vasilii Ivanovich,  
inzh.; KRUZE, Valeriy Vladimirovich, inzh.; SORIN, Naum  
Abramovich, inzh.; KALININ, V.K., red.; AYBASHEVA, T.V.,  
red.;

[VL60 and VL80 main line a.c. locomotives] Magistral'nye  
elektrovozy peremennogo toka VL60 i VL80. [By] B.A.  
Tushkanov i dr. Moskva, Transport, 1964. 555 p.  
(MIRA 17:7)

KRUZE, V.V.; UZBEKOV, A.A.

Study of the active components of therapeutic mud. Vop. kur.,  
fizioter. i lech. fiz. kul't. 26 no.5:396-399 S-0 '61.

(MIRA 14:11)

1. Iz kafedr obshchey khimii (zav. V.V.Kruze) i normal'noy fiziologii  
(zav. dotsent A.A.Uzbekov) Karagandinskogo meditsinskogo instituta  
(dir. - dotsent P.M.Pospelov).

(BATHS, MOOR AND MUD)

✓  
MD Urinary concretions in the light of 3340 observed cases.  
J. Mates and J. Klížek, *Z. Urol.* 48, 478-87 (1955). — Dis-  
turbances in the metabolism of the stone-forming substances  
seem to be concerned in stone formation. John F. Meyer

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DERKACH, G.I.; KRUZEMENT-PRIKHOD'KO, V.V.; KIRSANOV, A.V.

N-diaminophosphinylaroylamides. Zhur.ob.khim. 31 no.7:2391-2396  
Jl '61. (MIRA 14:7)

1. Institut organicheskoy khimii AN Ukrainskoy SSR.  
(Phosphinic amide)



KRUZENSHTERN, IVAN FEDOROVICH

KRUZENSHTERN, IVAN FEDOROVICH. Puteshestvie vokrug svieta v 1803, 4, 5 i 1806 godakh... na korabliakh Nadzhdie i Nevia, pod nachal'stvom...Kruzenshterna...V Sanktperterhurgie, 1809-1813. 3 v. and atlas of 1 p. l., six pl. Stamped on fly-leaf; Bibliotheque de Tsarskoe selo. DLC: G420.K9

SO: LC, Soviet Geography, Part I, 1951, Uncl.

BAYEVSKIY, R.M.; ZIL'BERTAL', Ye.A.; KRUZENSHTERN, V.M.; FREYDEL', V.R.

Use of automatic logical devices for medical control. Biul.  
eksp. biol. i med. 56 no.8:116-120 Ag '63. (MIRA 17:7)

1. Predstavleno deystvitel'nym chlenom AMN SSSR V.V. Parinyam.

KRUZHALOV, Anstoliy Georgiyevich; RUKHLYADEV, Nikolay Leonidovich;  
BELODVORSKIY, Yu. M., redaktor; AVRUSHCHENKO, R.A. redaktor  
izdatel'stva; KONYASHINA, A., tekhnicheskiy redaktor

[Gas distribution practice in foreign countries] Iz  
zarubezhnoi praktiki gazosnabzheniia. Moskva, Izd-vo M-va  
kommun. khoz. RSFSR, 1956. 58 p. (MLRA 10;5)  
(Gas distribution)

KRUZHALOV, B.D.

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SEE ILC

CHEMISTRY

KRUZHALIN, E.Ya., inzh.

Automatic welding of assemblage butt joints in rotary cement kilns. Svar.proizv. no.12:34-35 D '65.

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1. Bryanskoye montazhnoye upravleniye tresta "TSentrotekh-montazh".

KRUZHALOV, I., kapitan 2-go ranga.

Aircraft carrier . Voen. sman. 31 no. 9:19-20 8 '55. (MLRA 9:2)  
(Airplane carriers)

KRUZHALOV, I.

Sea hunter. p. 22.

Our gallery of gliders. p. 23.

ZA RODINATA, Sofiya, Vol. 6, no. 4, Apr. 1956.

SO: Monthly List of East European Acquisitions, (SEAL), LC, Vol. 5, No. 6 June 1956,  
Uncl.

KRUZHALOV, I., kapitan 2-go ranga.

Sea hunter. Voen.snan. 32 no.1:19 Ja '56.  
(Submarine chasers)

(MLRA 9:5)



KRUZHAILOV, I., kapitan 1 ranga.

Camouflaging the ship. Voen. znan. 35 no.11:20-21 H '59.  
(MIRA 12:12)  
(Warships) (Camouflage (Military science))

KRUZHALOV, I., kapitan 1-go ranga; MAMCHITS, V., kapitan 2-go ranga

Combat training of our sailors. Voen.znan. 36 no.7:18-19  
J1 '60. (MIRA 13:7)

(Naval education)

~~CONFIDENTIAL, N.F.~~

Solving the problem of "cramped" space. Machine stoppage no. 5:  
25 My '57. (MIRA 10:6)  
(Machine stops)

ACC NR: AP7001312

SOURCE CODE: UR/0957/86/016/017/417

AUTHOR: Bonch-Bruyevich, A. M.; Petrun'kin, V. Yu.; Arzumanov, V. N.; Yessphina, N. A.; Imas, Ya. A.; Krushalov, S. V.; Fakhomov, L. M.; Chernov, V. A.

ORG: none

TITLE: A study of a neodymium glass laser with external feedback

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 12, 1966, 2171-2174

TOPIC TAGS: solid state laser, glass laser, neodymium glass laser, traveling wave laser, laser r and d

ABSTRACT: A study was made of a traveling-wave external-feedback neodymium glass laser, the experimental setup of which is shown in Fig. 1. The external cavity consisted of four mirrors arranged in a rectangular pattern (1.5 x 0.3 m). The output mirror (5') was 80% reflective and the three other mirrors were 99% reflective. The active medium was a cylindrical glass rod 240 mm long and 25 mm in diameter. The laser was pumped by two IFK-15,000 flashlamps fed from a condenser bank having a total stored energy of 30 kJ. A Faraday-effect cell, consisting of a quartz plate and a polarizer (six plane-parallel Brewster-angle plates) was used to achieve traveling-wave operation. A DFS-8 spectrograph (dispersion 6 Å/mm) and a Fabry-Perot interferometer were used to observe the emission spectra of the laser at various pumping levels and with the Faraday cell in and out of the feedback circuit. It was shown that the emission spectra of traveling-wave lasers are virtually line spectra and

UDC: 621.378.32

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ACC NO: AP7001312

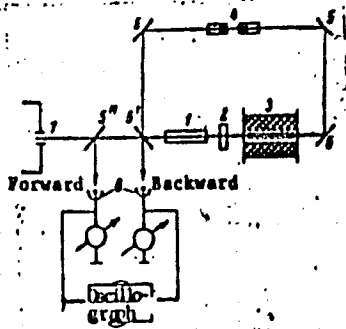


Fig. 1. Experimental setup of a traveling-wave laser

- 1 - Working substance; 2 - quartz plate;
- 3 - Faraday cell; 4 - polarizer;
- 5 - 5" - mirrors; 6 - photocells;
- 7 - spectrograph slit.

that the spiking sequence is better ordered than that of standing-wave lasers. A reduction of the spectrum to a single narrow line, which has been observed in traveling-wave ruby lasers, was not encountered in the present laser. Such narrowing in the traveling-wave operation will not occur unless the luminescence line of the working substance broadens, as it does in rubies. The high-intensity lines observed in the experiments corresponded to the uniform broadening of luminescence lines of the dopant. Orig. art. has: 5 figures. [YK]

SUB CODE: 20/ SUBM DATE: 01Jun66/ OTH KEY: 003/ AID PRESS: 5110  
Card 2/2

ACC NR: AP7002676

SOURCE CODE: UR/0109/67/012/001/0146/0149

AUTHOR: Petrun'kin, V. Yu.; Yesevkina, N. A.; Kruzhalov, S. V.; Pakhomov, L. N.; Chernov, V. A.

ORG: none

TITLE: Formation of the traveling wave in a complex optical resonator

SOURCE: Radiotekhnika i elektronika, v. 12, no. 1, 1967, 146-149

TOPIC TAGS: laser, ring laser, traveling wave, ~~laser, traveling wave ring laser resonator, optic resonator~~

ABSTRACT: An analysis is made of a method for calculating a ring resonator with supplementary external mirrors to obtain traveling wave excitation. The method is based on the theory of long lines as applied to the analysis of conditions for natural oscillation of the system. The essential part of the external arrangement is a system of two mirrors: one, with a partial transmission, is inclined to the beam, and the other, which is fully reflecting, is placed perpendicularly to the beam. A system of equations is given for the wave amplitudes as functions of the distance between the mirrors and their transmission and reflective indexes. The scattering matrix of the system is determined relative to the complex wave number, the real and imaginary parts of which represent, respectively, the natural frequency and the attenuation factors. The problem is solved for certain special cases, and from these solutions the relationship between the wave number and the parameters of the antire system (expressed

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UDC: 621.372.4.029.67

ACC NR: AP7002676

through a constant) can be deduced. Generally, however, the unavoidable reflection from the end facer of the resonator produces a reverse wave which must be eliminated before the operating traveling wave can travel only in one direction. This can be achieved either by coatings or by causing the reflected beams to deviate from the resonator axis and thus be ousted from the system. A rectangular ring laser, with near-optimal parameters, equipped with two supplementary mirrors as described, and with the end reflection eliminated by inclination of the active medium with respect to the resonator optical axis, was experimentally investigated under actual traveling-wave operation. Orig. art. has: 3 figures and 10 formulas. [WA-14]

SUB CODE: 20/ SUBM DATE: 29Jun66/ ORIG REF: 001/ OTH REF: 002/

Card 2/2

14(9,10)

SCV/55-59-4-4/12

**AUTHORS:** Vinogradov, S.V., Candidate of Technical Sciences and Krushch-  
lov, Yu.M., Engineer.

**TITLE:** Deformation of Underground Pipes Under External Load Appli-  
cation (Deformatsiya podzemnykh trub pod vneshney nagruzkoy)

**PERIODICAL:** Stroitel'stvo truboprovodov, 1957, Nr 4, pp. 11-15 (USSR)

**ABSTRACT:** In order to determine the actual working conditions, to which  
underground pipes are exposed, practical tests were carried  
out which showed the stability of the pipes and the amount  
of deformation under various loads. Tests were carried out  
with 2 pipes, with 6 mm wall thickness, 2.84 m in diameter  
and 7.5 m long; one pipe was ribbed and the other smooth.  
The pipes were of the welded type made from low-alloy steel  
of grade KL-2, ribs used: 120 x 10 mm made of channel iron  
Nr 14-b. The pipes were placed inside a trench and the free  
space around was packed with earth previously removed from  
the ground. A frame of 160 x 160 cm rectangular section  
was fitted inside the pipes carrying 36 indicators for measur-

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Deformation of Underground Pipes Under External Load Application

ing the deformation of the pipes. Schematic Diagram Nr 1 shows the layout of the testing installation with the arrangement of the measuring indicators. Sections 1, 2 and 3 refer to the ribbed pipe and sections 4, 5 and 6 to the smooth pipe. A terrace, 3 m high on top of the pipes, was put up to act as load to be applied to the pipes together with heavy machines. The article describes in detail the various phases of the test and the amount of vertical and horizontal deformations and reverse changes registered, depending upon the amount of load applied or removed in the beginning, during and at the end of the test. In addition to the 3 m high terrace, temporary loads were applied by a 1-ton bulldozer, loaded dumptrucks MAZ with a load of 8.75 tons on the rear axle and 42-ton excavator type E-1004. Graph Nr 3 shows the various levels of the terrace in the course of the test and the corresponding displacements of the surface of the pipe. In accordance with calculations the rigidity of ribbed pipe is 360 times greater than that of smooth pipe; in reality, however, displacements of the surface of the smooth pipe were only 1.3 - 1.4 times greater than those of the ribbed pipe, which is due to the fact that the ... adhering to ...

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SOV, 95-59-4-4/12

Deformation of Underground Pipes Under External Load Application

the pipe on both sides strengthens to a large extent the resistance of the pipe, offering a combined resilience under changing load pressure from above. For this reason ribbed construction of pipes can be dispensed with. The amount of additional deformation of pipes caused by heavy machinery was insignificant as compared with the deformation obtained from the load of the 3m high terrace; such peak displacements did not amount to more than 8% of the total deformation. There are 1 schematic diagram, 1 graph and 1 photo.

Card 3/3

ALYMOV, A.Ya.; KRUZHANOVSKIY, G.N.; PEVNITSKIY, L.A.

Effect of various methods of immunization against tetanus and gas gangrene on the rate of development of immunity and its intensity [with summary in English]. Biul,eksp.biol. i med. 43 no.5:100-108 My '57. (MIRA 10:10)

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(GAS GANGRENE, immunol.

eff. of various methods of immun. on promptness & intensity of immun. developed in rats (Rus))

(TETANUS, immunol.

same)

KRUZHAYEV, I. I.

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Use of control cable with cotton insulation Rab. energ. 2, No. 5, May 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 ~~1958~~, Uncl.

KRUZHAYEV, V.V., polkovnik meditsinskoy sluzhby; BOGATYREV, M.F.,  
podpolkovnik med.sluzhby

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duodenum. Voen.-med.shur. no.2:29-32 F '60. (MIRA 13:5)  
(PEPTIC ULCER HEMORRHAGE ther.)  
(PEPTIC ULCER PERFORATION surg.)

6  
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KRUZHEVNIKOVA, A. I.

PA 3/49T83

USSR/Metals

Aug 48

Steel, Manganese  
Colorimetry

"Colorimetric Determination of Compounds of  
Manganese in Air," D. N. Finkel'shteyn, A. I.  
Kruzhevnikova, Sverdlovsk Labor Hygiene and  
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"Zavod Lab" Vol XIV, No 8

Manganese particles escape into atmosphere during  
smelting of manganese steel in electric furnace.  
Describes method of determination. Discusses  
influence of presence of iron, chromium, and  
nickel.

3/49T83

KRUZHEVNIKOVA, M. S.

✓ 80 Colortube for ...  
GAC - 10000 ...



KRUZHEVNIKOVA, Ye.I.; LIBATOVA, V.A.

Topology of a magnetic field in the vicinity of a disk. Trudy  
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(Magnetic fields) (Ferromagnetism)



KRUZHILIN, A. S.

"Physiology of Heat Resistance of Cabbage and Potato," Dokl. AN SSSR, 61, No.5,  
1948

Sci.Res.Inst. Vegetable Farming

CA

110

Changes in nitrogen metabolism in cabbage leaves at high temperatures (G. A. Zauralov and A. S. Krushilin, Ministry Agr. RSPFR, Moscow). *Doklady Akad. Nauk S.S.S.R.* 77, 733-6 (1961).--Cabbage specimens from southern, more heat-resistant types have higher total and protein N and less nonprotein N than northern types (Moscow region). The latter show larger diurnal variation of nonprotein N, this being highest at midday. The effect is caused by shift of N metabolism toward the hydrolytic side under the influence of higher temp. and consequent relative dehydration of the plant. Heat-stable types contain 82-9% protein N (related to total N), while northern types give 76-81%. Growing cabbage seeds in aq. exts. taken from leaves collected at midday, i.e. at max. temp. period, showed that all such exts. retard the rate of seed development; the effect is strongest with exts. from non-heat-stable types, indicating that higher concns. of toxic materials are formed during the intensified hydrolysis period. Cabbage plants grown in the shade show less N in all forms than do the control plants, but the largest share of the decline is due to nonprotein N. The northern types show higher ammonia N content than do the southern types.  
G. M. Kuslajoff

1967