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L 29279-66

ACC NR: AP6019319

0

the Po and Te derivatives by chromatography, because the R_f values of the two compounds were practically the same. For the separation of the other derivatives, distribution chromatography on paper was applied, using suitable mixtures of solvents. The alpha-activity of Po^{210} and the beta and gamma-activities of Te^{127} were then determined on the chromatograms. Bromination and iodination of $Te(Po)(p\text{-}MeC_6H_4)_2$ to prepare the dihalides $Te(Po)(p\text{-}MeC_6H_4)Hal_2$ was carried out by means of $Te(p\text{-}MeC_6H_4)_2Hal$ (Hal = Br, I) in a benzene solution; treatment of $Te(Po)(p\text{-}MeC_6H_4)_2$ with Br_2 or I_2 resulted in an impoverishment of crystals of the mixed compound in the organometallic derivative of Po because of the low tendency of the latter to crystallize. To convert $Te(Po)(p\text{-}MeC_6H_4)_2$ to the difluoride, $Bi(p\text{-}MeC_6H_4)_3F_2$ was applied in an analogous reaction. The R_f value of every Po and Te compound prepared was determined for the solvents used in the chromatographic analysis. Orig. art. has: 5 figures, 3 formulas, and 1 table. [JPRS]

SUB CODE: 07, 18 / SUBM DATE: 15May64 / ORIG REF: 002 / OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

Levchenko, B.

27-58-3-8/17

AUTHOR: Levchenko, B., Senior Master

TITLE: Rolling Press Workers Learn a Second Profession (Val'tsovshchiki izuchayut vtoruyu professiyu)

PERIODICAL: Professional'noye Tekhnicheskoye Obrazovaniye, 1958, # 3, page 18 (USSR)

ABSTRACT: The work being done by graduates of Labor Reserve Educational Institutions often includes the repair of machine tools and devices. Therefore, "training in repair brigades" was added to the teaching program, in order to instruct rolling press operators in basic fitting operations.

Information is given on experiences in this field by the Industrial School of Metallurgists # 47 of the Sverdlovsk Oblast'. There were some difficulties due to the lack of skilled master-instructors. Seminars were organized to train rolling press masters in special courses in fitting. A 192 hour course of instruction is now being given in workshops, during which time the apprentices are trained in basic fitting operations so that they are able to carry out equipment repair work.

Card 1/2

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27-58-3-8/17

Rolling Press Workers Learn a Second Profession

ASSOCIATION: Remeslennoye uchilishche metallurgov # 47, Sverdlovskaya oblast' (The Industrial School of Metallurgists # 47, Sverdlovsk Oblast')

AVAILABLE: Library of Congress

Card 2/2

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

L 32677-66

ACC NR: AT6013442 (N., A) SOURCE CODE: UR/0000/65/000/000/0075/0081

AUTHORS: Levchenko, B. A.; Danilov, V. V.; Shekhovtsov, A. F.; Petikov, N. F.

ORG: Khar'kov Polytechnic Institute (Khar'khovskiy politekhnicheskiy institut)

TITLE: Effect of the water flow character in a cooling system of a tractor engine block on the temperature field of its lower plate

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines), no. 1, Kharkov, Izd-vo Khar'k. univ., 1965, 75-81

TOPIC TAGS: diesel engine, thermodynamics, cooling system, engine cooling/ SMD-7 engine, SMD-14 engine

ABSTRACT: A transparent model of the block and cylinder head of an SMD engine was created for the purpose of establishing the nature of the flow of water in the cooling system. The head parts and water jacket of the engine were designed to be separable. This permitted the study of the effect of the construction of elements of the water jacket on the thermal condition of the block. A combined method of visual and photographic observations was used in studying the nature of the water flow. Thermometric instrumentation and methods were those of B. A. Levchenko (Temperaturnoye sostayaniye golovki dvigatelya SMD-7. Trudy KhPI, t. 40, vyp. 2, Izd-vo KhGU, 1962). System loads were defined in terms of the water circulation cycling rate. Test

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ACC NR: AT6013442

measurements included the variation of the thermal state of the engine block and cylinder head with the system load, temperature drop along the perimeter of the valve seats, as well as the block temperature variation as a function of the efficiency of the water pump. Three diesel engines, the SMD-7 test model, an SMD-7 production model, and an SMD-14 model, are compared in a relatively wide operating range. Certain recommendations for improving cooling system effectiveness are included. Orig. art. has: 5 figures, 1 table, and 2 equations.

SUB CODE: 21/ SUBM DATE: 20Apr65/ ORIG REF: 001

Card 2/2 BLG

that application of a 0.3-1 mm layer of enamel with a thermal conductivity coefficient of 0.2-0.7 kcal/m·hr·deg reduces the temperature in the zone of the upper piston ring

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by 6-23%. This results in an increase in the energy of exhaust gases, thus improving the efficiency of turbosupercharging. Calculations for exhaust valves in the SMD-7 engine show analogous results. Tests of valves coated with a 0.4 mm layer of enamel with a thermal conductivity coefficient of 0.39 kcal/m·hr·deg showed a temperature reduction by 49°C in the center of the valve under rated operating conditions. On the basis of the results, the following optimum parameters are recommended for enamel coating of components in diesel engines of the SMD type: enamel thermal conductivity—0.2-0.7 kcal/m·hr·deg; enamel thickness—0.5-1.0 mm. Further work is needed to develop enamels with a low coefficient of thermal conductivity which adhere well to the alloys used for pistons and valves in tractor diesel engines. Orig. art. has: 4 figures, 12 formulas.

SUB CODE: 11,13,21/ SUBM DATE: None/ ORIG REF: 005

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

LEVCHENKO, B.D.

Plenary session of the Directive Board of the Medico-legal Society. Sud.-med. ekspert. 8 no.2:55 Ap-Je '65. (MIRA 18:8)

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.D., kand.med.nauk

"Forensic obstetrics" [in German] by H. Naujoks. Reviewed by B.D. Levchenko. Akush.i gin. 35 no.4:125-127 Jl-Ag '59. (MIRA 12:11)
(OBSTETRICS) (NAUJOKS, H.)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L.

LEVCHENKO, B.L., inzhener.

Work on speeding up steam turbine starting. Energomashinostroenie 3 no.9:8 S '57. (MIRA 10:10)
(Steam turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

TRET'YAKOV, P.G., kand.tekhn.nauk; LEVCHENKO, B.L., inzh.

Studying heat conditions in turbine casings with heated parts. Energomashinostroenie 5 no.3:1-7 Mr'59. (MIRA 12:3)
(Steam turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

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PHASE I BOOK EXPLOITATION: SOV/4017

Leningradskiy metallicheskiy zavod. Otdel tekhnicheskoy informatsii

Issledovaniya elementov parovykh i gazovykh turbin i osevykh kompressorov (Investigations of the Components of Steam and Gas Turbines and Axial-Flow Compressors) Moscow, Mashgiz, 1960. 488 p. (Series: Its: Sbornik, No. 6) Errata slip inserted. 3,200 copies printed.

Sponsoring Agency: RSFSR. Leningradskiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. Upravleniye tyazhelogo mashinostroyeniya.

Ed.: A.S. Zil'berman, Candidate of Technical Sciences; Eds. of Publishing House: V.P. Vasil'yeva and M.Z. Simonovskiy; Tech. Ed.: I.V. Sperkovskaya; Managing Ed. for Literature on the Design and Operation of Machines (Leningrad Division, Mashgiz): P.I. Petrov, Engineer; Editorial Board of Series: A.S. Zil'berman, Candidate of Technical Sciences; M.M. Koren', Engineer; V.K. Nasmov, Candidate of Technical Sciences; and I.N. Shibalov, Engineer.

PURPOSE: This collection of articles is intended for engineering and technical personnel of turbine-construction plants and related organizations and may also be used by engineers and technicians at power plants employing steam and gas turbines.

COVERAGE: The collection contains 43 reports which present the methods and results of investigations of the working process and the states and dynamics of the operation of turbine and axial-flow compressor components. Also described are test setups, devices, and apparatus. The first part of the collection deals with the aerodynamics of turbine and compressor components. The following members of the aerodynamic, compressor, and turbine laboratories took part in the work: D.M. Reshetko, V.I. Zemlyanskiy, Ye.A. Rusakova, the technicians T.Ya. Kiyanova, V.I. Karabash, N.D. Yegorova, and innovators N.F. Tutayev, and I.I. Zrzhavov. The second part of the collection consists of reports which illustrate that part of the work of the Laboratory (Central Laboratory of the Design Office for Steam and Gas Turbines of the Leningrad Metal Plant) concerned with the study of vibrations of turbines and their components, particularly the blades. The following members of the vibration laboratory participated in the work: Engineers I.D. Kovikova, G.L. Lyudin, and V.I. Melent'yeva, technicians and workers A.N. Krasheninnikov, V.I. Zimin, Yu.G. Kazinov, and Ye.P. Kudryavtsev. The third part is concerned with the calculation and experimental study of the state of stress and the deformations of turbine components. This work was performed by the Turbine-Component Laboratory. Personalities mentioned are the head of this laboratory M.M. Koren', Engineers Ye.S. Zhukova and I.V. Grimson, technicians and workers S.F. Serzhenok, and Z.K. Shul'gina. The last part contains articles dealing with instruments, apparatus, and test setups. At the end of the collection methods for producing rotating parts of experimental turbines and compressors are presented. Personalities mentioned are the supervisors of the shop of the laboratory N.N. Prolova and G.P. Gavrilova, the leading innovators Ye.V. Markova, I.I. Zverlova, and V.F. Tsvyrikova. References are to be found at the end of 36 of the 43 articles.

Levchenko, B.L., Engineer. Modeling of the State of Stress in the Mounts of Rotor Blades of Steam and Gas Turbines 355

Levchenko, B.L., Engineer. Investigation of the Self-Compensation of Piping on Models 362

Tret'yakov, P.G., Candidate of Technical Sciences. Investigation of Screen Insulation for High-Temperature Gas Piping 373

Tret'yakov, P.G., Candidate of Technical Sciences. Testing of an Experimental Oil Cooler 382

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., insh.

Simulating stressed state of the binding of moving blades of steam and gas turbines. [Trudy] LMZ no.6:355-361 '60. (MIRA 13:12)

(Blades)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.

Investigating the self-compensation of piping by model test. [Trudy] LMZ no.6:362-372 '60. (MIRA 13:12)

(Steam pipes--Testing)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

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E194/E184

26.2120

AUTHORS: Tret'yakov, P.G. (Candidate of Technical Sciences) and Levchenko, B.L. (Engineer)

TITLE: Temperature tests on a high-pressure turbine of the Leningrad Metal Works

PERIODICAL: Teploenergetika, 1960, No 10, pp 22-27

TEXT: In order to cut down the time required to start up turbines from the cold it is necessary to study the temperature distribution in the stator and rotor during steady state and transient conditions. Accordingly, the works laboratory has been testing turbines since 1953, paying particular attention to temperature distribution. Considerable experience has been gained of the temperature distribution in turbines during starting-up and cooling. The tests may be considered in two stages; the first was study of the main relationships of temperature change in turbines during starting and stopping, and the second was the application of various methods of altering the temperature distribution so as to control the heating and cooling of turbines. The test equipment used is described, particularly the general construction of the thermocouples used. Thermocouples were installed on the rotors and stators, a

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E194/E184

Temperature Tests on a High-Pressure Turbine of the Leningrad Metal Works

considerable proportion of them being of the flanged joints. In the first stages of the tests between 300 and 400 thermocouples were used on the turbine, but later this number was reduced and it is now considered sufficient to make measurements at about 100 points on the stator and 50 on the rotor. The method of measuring clearances inside the turbine is briefly explained. Tests have been made after overnight shutdown for 6-8 hours, and week-end shutdown of 30-36 hours and also from the cold. The factory starting instructions were obeyed at first and then accelerated starts were made. The test results are reviewed; most of them have been previously published in this journal in the last two or three years. A cold turbine does not heat up much whilst the barring gear is in use and a hot one even cools down. Therefore, this period should be reduced as far as possible. The period during which the load is raised from 5 to 50% is particularly important as it is then that the greatest temperature differences occur. When the forward glands are shrunk onto the turbine shaft the most dangerous temperature difference is that between the glands and the shaft underneath them. If this

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E194/E184

Temperature Tests on a High-Pressure Turbine of the Leningrad Metal Works

exceeds 70 °C damage to the turbine may result. In general, the rotor heats up faster than the stator and so expands more, particularly if the stator is not well lagged. In this respect the relative masses of rotor and stator are most important and where this ratio has been upset, as in a turbine with very heavy flanges, operating difficulties have been experienced. As a result of the work accelerated starting conditions were developed which greatly reduced the starting times of the turbines. It was shown that further acceleration of the starting could not be achieved without using some other construction than shrinking on for the labyrinth glands, and this construction has been avoided in new designs. The main difficulties of starting are then transferred from the rotor to the stator and in particular thermal stresses are set up in the flanges and studs. However slow the start, the inside surfaces of the flanges always heat up faster than the outside and accordingly it was decided to heat the outsides of the flanges. Various arrangements for steam and electric heating of the flanges and studs are illustrated schematically in Fig 1. Graphs of changes in

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E194/E184

Temperature Tests on a High-Pressure Turbine of the Leningrad Metal Works

temperature and temperature differences over the width of the flange during identical starts with and without heating are plotted in Fig 2, and it will be seen that heating is a very effective means of equalising the temperature distribution. By heating the flanges the starting time of one type of turbine could be reduced by a factor of 2-3 (see Fig 3). In the light of this work modern turbines are provided with heating of flanges and studs as a matter of course (see Fig 4). Electrical heating has also been tried: it is simple and easy to control and can more readily be applied to existing turbines than steam heating; though electrical heating is effective in reducing temperature differences it is not quite so good as steam, as will be seen from the temperature difference curves plotted in Fig 5. Study of turbine cooling showed that during shutdown the lower part of the frame cools the most rapidly so that a temperature difference is set up between the upper and lower parts, causing temperature strains (see Fig 6). If it is necessary to start the turbine whilst it is in this condition, it may be damaged. Accordingly, arrangements were made to heat the lower part of the

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E194/E184

Temperature Tests on a High-Pressure Turbine of the Leningrad Metal Works

frame electrically, and tests have shown that when such electrical heating is used it is possible to prevent the rapid cooling of the lower part of the frame (see Fig 7) and consequently to avoid the temperature strains. More uniform cooling is also achieved by improving the thermal insulation of the lower part. Analysis of test results has shown that there are a number of places at which temperature measurements can be made which will give good general guidance about the temperature condition of the turbine as a whole. Consequently, arrangements are now made to make measurements of this kind and to provide readings on the control panel. New methods of measuring stresses and clearances are being developed which will improve the effectiveness of the tests. The extensive experimental material available should make it possible to develop theoretical methods of calculating the heating and cooling of the turbines. It is first important to determine limiting conditions directly from experiment and to apply these in conjunction with modern computing techniques to assess temperature effects during the design stage of turbines.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.

Testing the VK-50-3 turbine under operating conditions. Energomashinostroenie 6 no.4:30 Ap '60. (MIRA 13:8)
(Steam turbines--Testing)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

TRET'YAKOV, P.G., kand.tekhn.nauk; LEVCHENKO, B.L., inzh.

Temperature testing of high-pressure turbines manufactured by the Leningrad Metalworking Plant. Teploenergetika 7 no.10: 22-27 O '60. (MIRA 14:9)

1. Leningradskiy metallicheskiy zavod.
(Leningrad--Turbines--Testing)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.

Variations in the steam temperature and load in the operation of steam turbines. Elek. sta. 31 no.12:37-41 D '60. (MIRA 14:5)
(Steam turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.

Temperature field of the casing of an electrically heated high-pressure turbine. Energomashinostroenie 7 no.7:24-27 Jl '61. (MIRA 14:8)

(Turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

S/114/62/000/009/002/003
E194/E435

AUTHOR: Levchenko, B.L., Engineer

TITLE: The use of carborundum heaters in tightening large flange-bolts on turbines

PERIODICAL: Energomashinostroyeniye, no.9, 1962, 34

TEXT: The process of tightening holding-down bolts of 140 and 165 mm diameter in flanged joints of steam turbines is facilitated by heating the bolts. The Laboratoriya parovykh turbin (Steam Turbine Laboratory) of the LMZ has developed heaters which can be made up at a power station from carborundum rods type КНМВ-25 (KNMV-25) heated by a supply from a welding transformer. The heater is inserted into the bore of the bolt, which is specially enlarged to 35 mm diameter. The heater temperature rises to 1200°C but the temperature of the bolt bore, which is heated by radiation, does not exceed 550°C. A bolt type M165 can be heated in 25 minutes, M140 in 20 minutes and M120 in 12 minutes, the rate of heating is limited by the temperature stresses in the bolt bore approaching the yield point. By using a number of heaters on groups of bolts a large turbine cylinder joint can be loosened or tightened in 2 to 3 hours.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.

Study of the starting operation of the VK-50-3 turbine.
Elek. sta. 33 no.5:14-19 My '62. (MIRA 15:7)
(Steam turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B. L., inzh.

Start of steam turbines. Energomashinostroenie 8 no.12:44-46 D '62. (MIRA 16:1)

(Steam turbines)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

S/096/63/000/004/001/010
E194/E455

AUTHOR: Levchenko, B.L., Engineer

TITLE: Starting tests on turbine type K-100-90

PERIODICAL: Teploenergetika, no.4, 1963, 2-7

TEXT: Starting tests were made on turbine type K-100-90 (100 MW, 90 atm, 535°C, 3000 rpm) because it had certain novel constructional features, notably redesigned hot-end labyrinth gland, single-row regulating stage, use of new types of steel and use of semi-flexible coupling between hp and lp cylinders instead of the usual spring-type couplings. Both steam and electrical heating of flanges and holding-down bolts are provided. Tests were made from hot, warm and cold conditions (corresponding shut-down times being 8, 42 and over 65 hours respectively). Numerous thermocouples were fitted and expansion measurements were made. A cooling curve was first plotted and differences in the rates of cooling of different parts of the turbine were measured. In tests from the cold all parts of the turbine warmed up whilst running up to speed and running light. The main stop-valve and regulating valves heat up very quickly (6 and 9°C/min respectively). The turbine rotor goes on expanding during light running. The turbine is heated intensively on

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loading up to 20 MW, with considerable temperature differences in hp cylinder flange joints. Since the temperature difference in the metal is greatest at 20 MW, this load should be picked up gradually with some delay in the 5 to 10 MW range. Beyond 20 MW, the rate of application of load may be increased and beyond 60 MW it may be accelerated still further. In starting from the warm condition, the stop and regulating valves heat up at 4.2 and 8°C per min respectively. The hp cylinder began to heat up only after 2400 rpm had been reached; its rate of heating did not exceed 1.5°C per minute and temperature differences started to appear in the flanges. It is concluded that the rate of picking-up speed is governed by heating of the stop and regulating valves; the turbine should not be kept running light because the consequence after about 20 minutes is that the rate of heating of the stop and regulating valves drops. The fastest starts were made from the hot condition after the turbine had been shut down for 7.25 hours when the maximum stop valve temperature was 400°C and that of the turbine flanges 383°C. Speed was picked up in 15 minutes; in a further 10 minutes the machine was synchronized and 40 minutes

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later loaded to 100 MW. On the basis of the test results recommendations are made concerning starting-up speed and may be summarized as follows: After shut-down of up to 2 hours, pick up speed and synchronize in 20 minutes, reach full-load after 1 hour. In starting from the hot condition, pick up speed and synchronize in 40 minutes, reach full load after 2 hours. From the warm condition, synchronize at 1 hour and pick up load gradually at first, reaching full-load in 3.75 hours. From the cold, run up to speed gradually in 80 minutes, synchronize at 90 minutes, pick up load very gradually at first and accelerate later to reach full load in 5 hours. These times could be cut by providing additional heating for the flanges. There are 7 figures and 2 tables.

ASSOCIATION: Leningradskiy metallicheskiy zavod
(Leningrad Metal Works)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.; MAKHOVKO, Yu.Ye., inzh.

Tubular heaters for tightening large threaded joints. Energomashinostroenie 9 no.11:33-34 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.; SHVETS, V.N., inzh.

Start of a 50 MW. block by steam with sliding parameters. Teploenergetika 10 no.1:2-8 Ja '63. (MIRA 16:1)

1. Leningradskiy metallicheskiy zavod imeni Stalina i Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey. (Electric power plants)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.

Trail runs of the K-100-90 turbine. Teplo[redacted]rgetika 10 no.4:2-7 Ap '63. (MIRA 16:3)

1. Leningradskiy metallicheskiy zavod.
(Steam turbines—Testing)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.; ROMANCHIK, K.K., inzh.

Tightening of large threaded units of steam turbines using carborundum heaters. Elek. sta. 34 no.11:35-38 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

TRUBILOV, M.A., kand. tekhn. nauk; PROKHOROV, S.A., inzh.; LEVCHENKO, B.L., inzh.; ROMANCHIK, K.K., inzh.

Change of the axial gaps of the VK-100-6 turbine during its operation. Teploenergetika 11 no.3:61-66 Mr '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut i Leningradskiy metallicheskiy zavod im XXII s"yezda KPSS.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.; MIKHAYLOV, A.A., inzh.

Start of PVK-200-1 turbines in hot state. Teploenergetika 11 no.5:2-5 Mr'64. (MIRA 17:5)

1. Leningradskiy metallicheskiy zavod imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.; NEKHENDZI, Ye.Yu., inzh.; ROMANCHIK, K.K., inzh.; KHASINA, E.A., inzh.

Study of tightening stresses in turbine pins using high-temperature tensiometers. Energomashinostroenie 10 no.5:37-39 My '64. (MIRA 17:8)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, B.L., inzh.; LISTVINSKIY, G.Kh.

Stresses in the walls of steam turbine units during heating. Energomashinostroenie 10 no.12:34-37 D '64. (MIRA 18:2)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

33192
S/669/60/000/002/001/004
D295/D309

9.3280

AUTHORS: Mizyuk, L.Ya., Gol'dgefter, V.I. and Levchenko, D.G.

TITLE: Follow-up type phase-shifter devices for obtaining an assigned shift over a frequency band

SOURCE: Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut avtomatiki i elektrometrii. Avtomaticheskiy kontrol' i elektricheskiye izmereniya, no. 2, 1960, 21 - 33

TEXT: The wide-band features of existing phase-shifting devices are reviewed and are shown to be inadequate for use in measuring networks. The adoption of follow-up techniques is suggested, whereby the phases of the output and input signals of a phase-shifting device are compared by a phase indicator, whose output voltage provides, for a departure of the phase shift from its assigned value, an error signal. After amplification and processing, the error signal acts on a control parameter of the phase shifter in such a manner as to reduce the phase shift to the value required. The principle is illustrated by the example of a quadrature phase-shifting device consisting of a bridge

X

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S/669/60/000/002/001/004
D295/D309

Follow-up type phase-shifter devices ...

circuit, whose control element is a photo-resistor. The error signal feeds the filament of a lamp illuminating the photo-resistor. Design formulas for such a system are worked out in detail by proceeding from the characteristic of the photo-resistor and ending up with an expression for the residual phase shift error. The band covered (a frequency ratio of about 6) is further extended by frequency-controlled jumpwise variations of the capacitance in another arm of the bridge. A prototype, covering the frequency intervals 100 - 600 and 500 - 3000 c/s, has been assembled and tested giving $\leqslant 0.5^{\circ}$ phase error, 5 % output-voltage error, $\pm$ 20 % permissible mains-voltage variation and $\leqslant$ 2 sec. transient duration. The extension to wide-band phase-shifting devices with adjustable phase shift is discussed. There are 7 figures.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.G.

Passage of two harmonic signals with multiple frequency through a nonlinear active three-terminal network. Trudy Inst. avtom. i elektrometr. SO AN SSSR no.10:48-55 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.G.; KOTYUK, A.F., kand. tekhn. nauk, otv. red.; SHALINA, L.V., red.

[Two-frequency inductive electric prospecting apparatus] Apparatura dvukhchastotnoi induktivnoi elektrorazvedki. Novosibirsk, Red.-izdatel'skii otdel Sibirskogo otd-niia AN SSSR, 1964. 92 p. (MIRA 18:3)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

ALAKOZ, A.K.; GOL'DGEFTER, V.I.; LEVCHENKO, D.G.

Semiconductor electrothermometer for temperature measurement in a submembranous space. Med. prom. 14 no.8:47-49 Ag '60. (MIRA 13:8)

(THERMOMETERS AND THERMOMETRY, MEDICAL)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

KOTYUK, A.F.; LEVCHENKO, D.G.; PAS'KO, E.V.; SHTAMBERGER, G.A.; KARANDEYEV, K.B., otv. red.; VYALYKH, A.M., tekhn. red.

[Apparatus for aerial electric prospecting using the infinitely long cable method] Apparatura dlia aeroelektrorazvedki metodom beskonechno dlinnogo kabelia. Otvet. red. K.B.Karandeev. Novosibirsk, Izd-vo Sibirskogo ot-niia AN SSSR, 1962. 78 p. (MIRA 15:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Karandeyev).
(Electric prospecting—Equipment and supplies)
(Aeronautics in geology)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

GLOVATSKIY, G.G., inzh.; LEVCHENKO, D.G., inzh.; NIKOLAYEV, N.A., kand. tekhn.nauk, dotsent

Device for analyzing overvoltages in windings. Izv.vys.ucheb. zav.; energ. 5 no.5:28-34 My '62. (MIRA 15:5)

1. L'vovskiy politekhnicheskiy institut. Predstavlena kafedroy elektricheskikh stantsiy, setey i sistem.
(Electric machinery—Windings) (Electronic measurements)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

MIZYUK, L.Ya.; GOL'DGEFTER, V.I.; LEVCHENKO, D.G.

Servo-type phase shifting devices for obtaining a given shift in a frequency band. Avtom. kont. i elek. izm. no.2:21-34 '60. (MIRA 15:3)

(Phase converters) (Electric controllers)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.G.; NOSOV, V.M.

Measuring apparatus for two-frequency inductive electric prospecting. Geol.i geofiz. no.1:134-136 '63. (MIRA 16:4)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Electric prospecting)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.G.; KOTYUK, A.F.

Induction type transducers of limited size for measuring weak magnetic fields of audio frequency. Izv. AN SSSR. Ser. geofiz. no.11:1684-1690 N '63. (MIRA 16:12)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.G.; KOTYUK, A.F.

Induction pickup of given dimensions for measuring weak audio-frequency magnetic fields. Izv. AN SSSR. Ser. geofiz. no.2:247-253 F '64. (MIRA 17:3)

1. Institut avtomatiki i elektrometrii AN SSSR.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

L 56486-65 EWT(1)/EED-2/EWA(h) Pm-4/Peb

ACCESSION NR: AP5017806 UR/0286/65/000/011/0040/0040

621.374

18
B

AUTHOR: Mizyuk, L. Ya.; Gol'dgefter, V. I.; Levchenko, D. G.

TITLE: A phase shifter for a fixed 90° phase shift. Class 21, No. 171434

25

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 40

TOPIC TAGS: phase shifter, photoconductive cell, cathode follower

ABSTRACT: This Author's Certificate introduces a phase shifter for a fixed 90° phase shift. The device contains input and output decoupling cathode followers, an incandescent lamp, a photoconductive cell, and two converters. One of the converters is connected to the input cathode follower and to the input of the phase shifting network which contains capacitance, while the other converter is connected to the input of the output cathode follower and to the output of the phase shifting network. The unit is designed for automatically maintaining the phase shift in a wide frequency range. For this purpose it contains an additional incandescent lamp, three photoconductive cells connected between the capacitors of the phase shifting network and a common point, and a comparison circuit with a modulator and power

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ACCESSION NR: AP5017806

amplifier. The power amplifier is loaded simultaneously by both incandescent lamps, each of which is placed just before the corresponding pair of photoconductive cells. The input of the comparison circuit is connected to the output of the convertors.

ASSOCIATION: none

SUBMITTED: 29Dec58 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

YAKOVENKO, G.Z.; LEVCHENKO, D.I.; LEYKIN, Ye.R.

Production and testing of non-ionic KS-59 demulsifiers. Gidrol. i lesokhim.prom. 15 no.2:17-19 '62. (MIRA 15:5)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

21

CA

Waxes from primary peat tar. D. N. Levchenko. *Za Torfyanuyu Ind.* 1937, No. 1, 22-4.—Waxes are wpd. from peat tar, freed from asphaltenes by treating with 25-30% H_2SO_4. (1) by filter-pressing after preliminary crystn. of waxes at final temp. of 15° and 20°, and (2) by centrifuging the gasoline soln. of tar waxes crystd. at 0° or −5°. The refined waxes from peat tar have d_{15} 0.940-0.980, m. 70-80°, acid no. 85-115, saponif. no. 92-137, I no. 5-13.5, and unsaponifiable residue 16.5-18.5%. The yield of refined waxes is 4-6% of peat tar. A. A. P.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

SEVCHENKO, D.N.

21

Emulsification of simple phenol esters to obtain polyhydric phenols of peat tar. D. N. Levchenko. *Trudy Instituta* 1939, No. 19, 141-51; *Khim. Referat. Zhur.* 1940, No. 3, 81.—In order to devise a better method for the sepn. of phenol esters from phenol fractions of tar, I carried out a series of expts. on the emulsification of simple phenol esters by HCl gas and by HCl of different concns. at ordinary pressures and in the autoclave; also in the autoclave with 25% NH_3. Emulsification of simple phenol esters with NH_3 and subsequent sepn. of polyhydric phenols can be of an industrial importance only for the narrow fractions of peat tar with a high content of simple esters.

W. R. Henn.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

PROCESSES AND PROPERTIES INDEX

Ca

21

Enrichment of the phenol fraction of peat in guaiacol by fractional extraction with alkali. D. N. Levchenko. *Trudy Instituta* 1939, No. 19, 158-67; *Khim. Referat. Zhur.* 1940, No. 3, 83-4; cf. *C. A.* 36, 2391[1].—Phenols fractionally extd. with alkali from the acid oils of the upper layer of the Redkin peat were contaminated with neutral oils (above 50% in some cases). Fractional extn. of phenols from the cresol fraction enriches the 1st fraction of phenols with guaiacol (30-50% guaiacol according to the methoxyl no.), but no cryst. guaiacol was obtained. Fractional decompn. of phenolate with acids does not increase the content of guaiacol in the different fractions. By sepg. guaiacol from peat phenols by means of lime it is possible to obtain concentrates contg. up to 70% of guaiacol, but no cryst. guaiacol is obtained. The method requires large amts. of alc. for washing Ca guaiacolate.

W. R. Henn

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

CA

New ways of processing crude oils. N. A. Butkov and D. N. Levchenko. *Neftyanoe Khoz.* 25, No. 4, 46-50 (1947).—The group compn. of a residue (55%) from Devonian crude oil in the Tuimazy field, as detd. by chromatographic adsorption, is: paraffins and naphthenes 30.41, aromatic compds. 15.92, resins 29.34, and asphalt and tar 19.40%. The paraffinic-naphthenic fraction on dewaxing yielded 6.2%, based on the crude oil, of oil having a viscosity index of 103. In cracking the initial residue and each fraction separately at 300°, it was found that addn. of a propane-propylene fraction of cracked gas substantially accelerates the cracking of aromatic constituents. Pure bibenzyl or anthracene, which ordinarily do not crack at 300°, will undergo severe cracking at that temp. in the vapor phase in mixt. with n-butylene, whereby hardly any C is formed. A fluid-type catalyst process for the conversion of Tuimazy residue into high yields of gasoline and kerosene, with recycling of the residual gas to the reactor, is proposed. Bruno C. Metzner

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

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JENKE D.N

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

S/065/60/000/004/006/017
E071/E435

AUTHORS: Levchenko, D.N., Khudyakova, A.D., Kalitayeva, A.L. Shkiyaruk, Ye.A., Khokhlov, V.I. and Chugreyeva, A.S.

TITLE: Non-Ionogenic Surface-Active Substances - De-Emulsifying Agents for Petroleum Emulsions

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.4, pp.24-29

TEXT: Results of synthesis and testing of non-ionogenic surface-active substances (de-emulsifying agents) from fractions of alkylphenols, obtained as a by-product in the production of an antioxidant additive 2,6-ditertiarybutylparacresol (DBPK) are given. As a starting material for the synthesis monoalkylcresol fraction (126 to 142°C at 20 mm Hg) and residue from the production of DBPK and their mixtures and oxyethylene were taken. The experimental procedure is described in some detail. Specimens of alkyleneglycols obtained were tested on petroleum emulsions as de-emulsifying agents and surface tensions of their aqueous solutions of various concentrations were tested (Fig.1). By varying the duration of oxyethylation process products containing various numbers of oxyethylene groups were obtained. It was found

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S/065/60/000/004/006/017
E071/E435

Non-Ionogenic Surface-Active Substances - De-Emulsifying Agents for Petroleum Emulsions

that compounds containing less than 10 groups of oxyethylene were not completely soluble in water, while compounds containing larger proportions of these groups were well soluble. The surface tension of compounds containing from 14 to 32 groups varied little particularly at low concentrations. With increasing number of groups up to 40 and above, the surface active properties of the compounds deteriorate. The best results were obtained with substances containing between 25 to 30 of oxyethylene groups. The latter type of compounds was named VNII NP-58. Its de-emulsifying activity was compared with other reagents used at present in the petroleum industry (table) and was found to be superior to that of other reagents. The consumption of this agent for the de-emulsification of Bashkirian crudes amounts to 0.005 - 0.01% and on thermochemical desalting of the Romashk crude - 0.03%. It is concluded that oxyethylation of by-products obtained during the production of DBPK should be introduced into the industry. There are 2 figures, 1 table and 6 Soviet references.

ASSOCIATION: VNII NP

Card 2/2

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

BERNADYUK, Z.A.; LEVCHENKO, D.N.; PUSHKAREV, V.P.; CHIRIMANOV, P.A.; KORZH, A.F.; ZHURAVLEV, K.A.; KOVALENKO, N.F.

Petroleum desalting in electro-desalting units in the presence of the OP-10 nonionogenic demulsigying compound. Khim.i. tekh.topl.i masel 5 no.9:31-37 S '60. (MIRA 13:9)

1. Novo-Gor'kovskiy neftepererabatyvayushchiy zavod i Vsesoyuznyy naucnno-issledovatel'skiy institut po pererabotke nefti i polucheniyu iskusstvennogo zhidkogo topliva.
(Petroleum--Refining--Desalting)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.N.; KHUDYAKOVA, A.D.; GAVRILOVA, N.D.

Determination of nonionizing surface active substances in aqueous solutions. Zav. lab. 27 no. 4:408-409 '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Surface active agents)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

FEYGIN, S.A.; BUCHINA, L.I.; LEVCHENKO, D.N.

Prospects for the use of new dimulsifying agents. Khim.i tekh.topl. i masel 6 no.12:27-33 D '61. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Petroleum--Refining--Desalting)
(Surface-active agents)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.N.; YERMILOV, A.S.; TEPLYKH, G.A.; VOLOBUYEV, N.K.

Use of ultrasound for deemulsifying stable petroleum emulsions. Prim. ul'traakust. k issl. veshch. no.14:337-343 '61. (MIRA 14:12) (Ultrasonic waves--Industrial applications) (Emulsions)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

L 32905-66 EWT(m)/T DJ/WE

ACC NR: AR6023809 SOURCE CODE: UR/0081/66/000/001/R012/R012

AUTHOR: Levchenko, D. N.

ORG: none

TITLE: Analysis of the performance of apparatus for desalinization of oil in eastern refineries, prospects for intensifying the processes, and production and use of new demulsifiers

SOURCE: Ref. zh. Khimiya (pt. 2), Abs. 1P108

REF SOURCE: Puti intensifik. osnovn. protsessov neftepererab. prom-sti. v svyazi s perspektivami yeye razvitiya, M., 1964, 18-32

TOPIC TAGS: petrochemistry, petroleum refining, lubricant demulsifier, chemical synthesis, condensation reaction/OP-10 lubricant demulsifier, OZhK lubricant demulsifier, 4411 lubricant demulsifier, 4422 lubricant demulsifier

ABSTRACT: The performance of app. for desalinization of oil in eastern refineries was analyzed. In most refineries desalinization was satisfactory due to the lack of an effective demulsifier and admission of poorly dehydrated oils from the fields. In an experimental run of an electro-desalinization apparatus, non-ionic demulsifiers (OP-10, OZhK, and imported disolvan, 4411, and 4422) were highly effective: at a consumption of 20-50 g./ton the residual salt content in the oil was 20-40 mg./l.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

L 32905-66

ACC NR: AR6023809

Results of long tests with the import demulsifiers 4411 and 4422 synthesized in the laboratory and experimental-industrial lots of OZhK (product of hydroxyethylation of synthetic high molecular weight fatty acids > C_{20}), as well as the demulsifier OS (Shebinskii hydroxyethylated alcs.) are given. The most effective, economical, and practical for commercial production was OZhK. In addition to the above demulsifiers, compounds of the plyuronik type (a surfactant obtained by condensation of propylene-glycol with propylene oxide, followed by hydroxyethylation) and tetranik type (product of hydroxypropylation of ethylenediamine followed by hydroxyethylation) of different molecular weights, synthesized by the NIOP were also laboratory tested; they were quite effective. Results of an analysis of different import demulsifiers are given. Types of electrodehydrators for desalinization of oils are briefly examined. [JPRS]

SUB CODE: 11, 07 / SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.N.; NIKOLAYEVA, N.V.; KHUDYAKOVA, A.D.

Use of block copolymers of propylene and ethylene oxides for the breaking of petroleum emulsions. Khim. i tekh. topl. i masel 9 no.3:36-40 Mr'64 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo shidkogo topliva.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

NIKOLAYEVA, N.M.; LEVCHENKO, D.N.

Dependence of the demulsifying activity of surfactants on their structure. Khim. i tekh. topl. i masel 9 no.9.26-29 S '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

CHASHIN, V.D.; MARSHINOVICH, G.M.; LEVCHENKO, E.F.

Concerning the preparation of petroleum in the field; a topic for discussion. Neft. khoz. 42 no.12:26-34 D '64 (MIRA 18:2)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

NIKOLAYEVA, N.M.; [illegible], A.T.; [illegible], D.L.

Testing alkylene oxide block copolymers as demulsifiers on an electric desalter. Nefteper. i neftekhim. no.4:7-9 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazu i polucheniyu iskusstvennogo zhidkogo topliva.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

L 56525-65 EWP(m)/EPF(c)/EWA(d)/T Pr-4 WE/WH UR/0286/65/000/010/0054/0054

ACCESSION NR: AP5016742

AUTHORS: Levchenko, D. N.; Nikolayeva, N. M.; Mizuch, K. G.; Gel'fer, Ts. M.

TITLE: A method for dehydrating and desalinating of petroleum. Class 21, No.171065

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 54

TOPIC TAGS: petroleum, dehydration, desalination, surface active substance, ester

ABSTRACT: This Author Certificate presents a method for dehydrating and desalinating of petroleum by introducing nonionogenic surface active substances into the petroleum emulsion. To accelerate the process of dehydration and desalination, polypropyleneglycol esters of polyethyleneglycol, or its derivatives, with a molecular weight of 2500-10 000 are used as the nonionogenic surface active substances.

ASSOCIATION: none

SUBMITTED: 19Feb64 ENCL: 00 SUB CODE: FP, GC

NO REF SOV: 000 OTHER: 000

Card 1/1

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L 42709-66 EWT(m)/T DJ/WW/GD

ACC NR: AT6013184 (N) SOURCE CODE: UR/0000/61/000/000/0337/0343

46
43
B+1

AUTHORS: Levchenko, D. N.; Yermilov, A. S.; Teplykh, G. A.; Volobuyev, N. K.

ORG: none

TITLE: Application of ultrasound in de-emulsification of stable oil emulsions

SOURCE: Moscow, Oblastnoy pedagogicheskiy institut. Primeneniye ul'trazvukovtiki k issledovaniyu veshchestva, no. 14, 1961, 337-343

TOPIC TAGS: ultrasound, emulsion, ultrasonic equipment, ultrasonic petroleum purification, ultrasonic vibration emitter, barium titanate / OP-10 de-emulsifier, VNII NP-58 de-emulsifier, KS-59 de-emulsifier

ABSTRACT: De-emulsification by means of ultrasound was studied on stable, aged, oil-water emulsions from traps and storehouses of the Moscow refineries. Three ultrasound generators (3.2 and 0.6 kilowatt capacities) and vibrators (magnetostrictive, barium titanate, flat, and focusing) were employed in the study. The degree of de-emulsification was determined as a function of the height of the sonicated emulsion layer, sonication time, and ultrasound field intensity. It was established that the investigated emulsions can be destroyed when treated with ultrasound with a frequency of 20—750 kHz. The de-emulsification degree increases with increased ultrasound field intensity and time of treatment, and decreases with increased emulsion layer. The sound frequency is inversely proportional to the optimal thickness

Card 1/2

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L 42209-66

ACC NR: AT6013184

of the destroyed emulsion. The most promising vibrators are barium titanate pipes and hydrodynamic vibrators used in conjunction with de-emulsifiers OP-10, VNII NP-58, and KS-59. Orig. art. has: 2 tables and 8 figures.

SUB CODE: 07, 20, 11/ SUBM DATE: 22Apr61

Card 2/2 af

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, D.V.

BOGUSLAVSKIY, I.Ya., starshiy nauchnyy sotrudnik,; BOCHAROV, Yu. G., mladshiy nauchnyy sotrudnik,; YENTOV, O.I., mladshiy nauchnyy sotrudnik,; ZHIVAGO, V.I., mladshiy nauchnyy sotrudnik,; KHITSUN, V.N., inzh.; BUBLIK, V.I., inzh.; LEVCHENKO, D.V., otv. red.; AVRUTSKAYA, R.F., red. izd-va.; MIKHAYLOVA, V.V., tekhn. red.; EVENSON, I.M., tekhn. red.

[Consolidated time norms for machining standard parts; unit and small-scale production] Ukrupnennye normy vremeni na tokarnuiu obrabotku tipovykh detalei; individual'noe i melkoseriinoe proizvodstvo. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi tsvetnoi metallurgii, 1958. 445 p. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii.
(Turning--Production standards)
(Time study)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

BOGUSLAVSKIY, Isaak Yakovlevich; BOCHAROV, Yuriy Grigor'yevich; LEVCHENKO, Dmitriy Vasil'yevich; PORTNOY, Moisey Yevseyevich; MERKOV, S.M., red.; AVRUTSKAYA, R.F., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Establishing norms and the work organization for the repair of metallurgical furnaces] Tekhnicheskoe normirovanie i organizatsiia truda na remontakh metallurgicheskikh pechei. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 316 p. (MIRA 13:10)

(Metallurgical furnaces--Maintenance and repair)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

BOGUSLAVSKIY, I.Ya., starshiy nauchnyy sotrudnik; BOCHAROV, Yu.G., mladshiy nauchnyy sotrudnik; YENTOV, O.I., mladshiy nauchnyy sotrudnik; BUBLIK, V.I., insh.; GOLOVANOVA, I.N., insh.; KHITSUN, V.N., insh.; SEMENENKO V.I., insh.; SHMEDRIK, S.S., insh.; LEVCHENKO, D.V., otv.red.; CHETYRKIN, M.I., red.; PINEGIN, I.I., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Enlarged machining and time norms for planing and slotting; piece and small lot production] Ukrupnennye normy i normativy vremeni na strogal'nye i dolbezhnye raboty; individual'noe i melkoseriinoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 408 p. (MIRA 14:12)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii.
(Metal cutting)

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BOGUSLAVSKIY, I.Ya., starshiy nauchnyy sotr.; BOCHAROV, Yu.G., mlad. nauchnyy sotr.; YENTOV, O.I., mlad. naychnyy sotr.; BUBLIK, V.I., inzh.; GOLOVANOVA, I.N., inzh.; KHITSUN, V.N., inzh.; SEMENENKO, V.I., inzh.; SHMEDRIK, S.S., inzh.; LEVCHENKO, D.V., otv. red.; BURSHTEYN, A.I., red. izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Consolidated norms and time norms for boring work; piece and small lot production] Ukrupnennye normy i normativy vremeni na rastochnye raboty; individual'noe i melkoseriinoe proizvodstvo. Moskva, Metallurgizdat, 1962. 407 p. (MIRA 15:3)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii.
(Drilling and boring--Production standards)

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LEVCHENKO, E., inzh., elektromekhanik

Cause of the failure of the ignition system of a [illegible] boiler. Mor. fiot 24 no. 9 14 S '64. [illegible]

1. Teplokhod "Baltiysk" Baltiyskogo parokhodstva.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

PAVLYUCHENKOV, A.; LEVCHENKO, E., elektromekhanik

Welders are performing better. Mor. flot 25 no.11:26-27 N '65. (MIRA 18:11)

1. Gruppovoy elektromekhanik Baltiyskogo parokhodstva (for Pavlyuchenkov). 2. Teplokhod "Stanislavskiy" (for Levchenko).

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

POPOV, Yu.I.; SLIZKIY, P.I.; YELINSON, I.M.; LEVCHENKO, F.A.; KALASHNIKOV, Yu.T.; KISELEV, N.N., redaktor; LEUTA, V.I., inzhener, redaktor; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Model ESh 4/40 walking excavator] Shagaiushchii ekskavator ESh 4/40. Pod red. N.N.Kiseleva. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry Ukrainskoe otd-nie, 1955. 152 p. (MLRA 8:10)
(Excavating machinery)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

AL'TSHULER, V.Ye., prof.;LEVCHENKO, F.F.,aspirant

Method for housing cattle which can be applied to the entire zone.
Zhivotnovodstvo 20 no. 10:28-32 O '58. (MIRA 11:10)

1. Tadzhikskiy sel'skokhozyaystvennyy institut.
(Tajikistan--Cattle)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, G.

Ship anchorage under stormy weather conditions. Mor.flot 21 no.2:22-23 F '61. (MIRA 14:6)

1. Starshiy shturman SRT-1038 "Aleysk" Upravleniya aktivonogo morskogo rybolovstva, g. Nakhodka.
(Anchorage)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

1. VENDEKER, S.; LEVCHENKO, G.

2. USSR (600)

4. Chernitse-Pelokan'te Region - Chalk

7. Report on the prospecting for chalk deposits in the Chernitse-Polokan'ts region of the Vil'nius District of the Lithuanian S. S. R. for 1944, /Abstract/ Izv. Glav. upr. geol. fon., No. 2, 1947.

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

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, G.A.

Some problems of the control of agricultural traumatism. Sov. zdrav. Kir. no.4/5:99-103 Jl-O'63 (MIRA 17:1)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny Kirgizskogo meditsinskogo instituta (zav. - prof. A.A. Aydaraliyev) i khirurgicheskogo otdeleniya Alamedinskoy rayonnoy bol'nitsy (glavnyy vrach - N.S. Sologub).

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

RASPOPOV, I.V.; LUKASHOV, G.G.; PLISKANOVSKIY, S.T.; ARTYUKHOV, B.N.; TARASOV, D.A.; ARIKHBAYEV, V.V.; Prinimali uchastiye: ZENYUKOV, V.P.; NEMTSOV, N.S.; GODLEVSKIY, A.I.; LEVCHENKO, G.F.; DEGTYAREVA, Z.I.; GORLACH, A.A.; YAKUSHECHKIN, Ye.I.

Intensifying the sintering process by air preheating and by improving the performance of exhaust fans. Stal' 23 no.8: 679-682 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy zavod "Azovstal'."

(Sintering)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, G.I., admiral, otvetstvennyy red.; DEMIN, L.A., dots., kand. geogr. nauk, inzh.-kontr-admiral, glavnyy red.; FEDYKIN, N.S., polkovnik, zamestitel' otvetstvennogo red.; ABAN'KIN, P.S., admiral, red.; ALAFUZOV, V.A., prof., kand. voenno-morskikh nauk, admiral, red.; ANAN'ICH, V.Ye., kontr admiral zapasa, red.; ACHKASOV, V.I., kand. istor. nauk, kapitan 1 ranga, red.; BARANOV, A.N., red.; BELLI, V.A., prof., kontr-admiral v otstavke, red.; BESKROVNYY, L.G., prof., doktor istor. nauk, polkovnik zapasa, red.; BOLTIN, Ye.A., kand. voen. nauk, general-mayor, red.; VERSHININ, D.A., kapitan 1 ranga, red.; VITVER, I.A., prof., doktor geogr. nauk, red.; GEL'FOND, G.M., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red., GLINKOV, Ye.G., inzh.-kontr-admiral v otstavke, red.; YELISEYEV, I.D., vitse-admiral, red.; ZOZULYA, F.V., admiral, red.; ISAKOV, I.S., prof., Admiral Flota Sovetskogo Soyuza, red.; KAVRAYSKIY, V.V. [deceased], prof., doktor fiz.-mat. nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., red.; KOZLOV, I.A., dots. kand. voenno-morskikh nauk, kapitan 1 ranga, red.; KOMAROV, A.V., vitse-admiral, red.; KUDRYAVTSEV, M.K., general leytenant tekhnicheskikh voysk, red.; LYUSHKOVSKIY, M.V., dots., kand. istor. nauk, polkovnik, red.; MAKSIMOV, S.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; OKUN', S.B., prof., doktor istor. nauk, red.; ORLOV, B.P., prof., doktor geogr. nauk, red.; PAVLOVICH, N.B., prof., kontr-admiral v otstavke, red.; PANTELEYEV, Yu.A., admiral, red.; PITERSKIY, N.A., kand. voenno-morskikh nauk, kontr-admiral, red.; PLATONOV, S.P., general-leytenant, red.; POZNYAK, V.G., dots., general leytenant, red.; SALISHCHEV, K.A., prof., doktor tekhn. nauk,

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LEVCHENKO, G.I.---(continued) Card 2.

red.; SIDOROV, A.L., prof., doktor istor. nauk., red.; SKORODUMOV, L.A., kontr-admiral, red.; SNEZHINSKIY, V.A., prof., doktor voenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SOLOV'YEV, I.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; STALBO, K.A., kontr-admiral, red.; STEPANOV, G.A. [deceased], dots., vitse-admiral, red.; TOMASHEVICH, A.V., prof., doktor voenno-morskikh nauk, kontr-admiral v otstavke, red.; TRIBUTS, V.F., kand. voenno-morskikh nauk, admiral, red.; CHERNYSHOV, F.I., kontr-admiral, red.; SHVEDE, Ye.Ye., prof. doktor voenno-morskikh nauk, kontr-admiral, red.; CHUHBAKOV, A.I., tekhn. red.; VASIL'YEVA, Z.P., tekhn. red.; VIZIROVA, G.N., tekhn. red.; GOROKHOV, V.I., tekhn. red.; GRIN'KO, A.M., tekhn. red.; KUBLIKOVA, M.M., tekhn. red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn. red.; CHERNOGOROVA, L.P., tekhn. red.; GUREVICH, I.V., tekhn. red.; BUKHANOVA, N.I., tekhn. red.; NIKOLAYEVA, I.N., tekhn. red.; RADOVIL'SKAYA, E.O., tekhn. red.; TIKHOMIROVA, A.S., tekhn. red.; BELOCHKIN, P.D., tekhn. red.; LOYKO, V.I., tekhn. red.; ROMANYUK, I.G., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.

[Sea atlas] Morskoi atlas. Otv. red. G.I. Levchenko. Glav. red. L.A. Demin. [Moskva] Izd. Glav. shtaba Voenno-morskogo flota. Vol.3. [Military and historical. Pt.1. Pages 1-45] Voenno-istoricheskii. Zamestitel' otv. red. po III tomu N.S. Frumkin. Pt.1. Listy 1-45. 1958. _____ [Military and historical maps, pages 46-52]

(Continued on next card)

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LEVCHENKO, G.I.---(continued) Card 3.
Voenno-istoricheskie karty, listy 46-52. 1957. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. 2. Nachal'nik Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh del SSSR (for Baranov). 3. Chlen-korrespondent Akademii nauk SSSR (for Kalesnik). 4. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov).

(Ocean--Maps)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

SURMELI, D.D., kand.tekhn.nauk; MAR, Ch.D., inzh.; LEVCHENKO, G.I., inzh.; KRYLOV, I.F., inzh.; LESNYEH, M.V., inzh.

"Poroizol" is a material for packing joints. Stroi. mat. 7 no.9: 31-32 S '61. (MIRA 14:11)

(Rubber, Synthetic)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

BUT, A.I., inzh.; SUKHOVA, L.A., kand.tekhn.nauk; LEVCHENKO, G.I., inzh. [deceased]

Method of electric dehydration of roofing paper. Stroi. mat. 8 no.5:20-21 My '62. (MIRA 15:7)

(Roofing)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, G.M.

Approximate calculation of torsional vibrations of a system with pendulum-type vibration dampers. Vest. mashinostr. 45 no.7:27-29 Jl '65. (MIRA 18:10)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

BERG, S.L., polkovnik; VOROB'YEV, V.I., kapitan pervogo ranga; GIL'BO, G.M., kapitan pervogo ranga; ANANCHENKO, A.A.; BALAKSHINA, M.M.; BANNIKOV, B.S., kapitan vtorogo ranga; BAKHTINA, G.F.; BERENSHTAM, N.V.; BUTYRINA, N.Ya.; VOROB'YEV, V.I., kapitan pervogo ranga; GASS, I.P.; GINBYSH, N.S.; GLADIN, D.F., polkovnik; GOLOVANOVA, L.G., kand. ist. nauk; GOLUBEVA, Z.D., kand. filol. nauk; GONCHAROVA, A.I.; ZANADVOROVA, R.N.; IVANOVA, N.G.; KARAMZIN, G.B.; KOVAL'CHUK, A.S.; KRONIDOVA, V.A.; LITOVA, Ye.I.; MOLCHANOVA, T.I.; OKUN', L.S.; POCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.; SKRYNNIKOV, R.G., kand. ist. nauk; FURAYEVA, I.I.; CHIZHOVA, N.N.; YASINSKAYA, L.F.; GLADIN, D.F., polkovnik; LABETSKIY, Ye.F., podpolkovnik; LEBEDEV, S.M., kapitan pervogo ranga; ORDYNSKIY, N.I., kapitan pervogo ranga; NADVODSKIY, V.Ye., podpolkovnik; DEMIN, L.A., inzh.-kontr-admiral, glav. red.; FRUMKIN, N.S., polkovnik, zam. otv. red.; LEVCHENKO, G.I., admiral, red.; BAKHTINA, G.F., tekhn. red.

[Naval atlas] Morskoi atlas. n.p. Izd. Glavnogo Shtaba Voenno-Morskogo Flota. Vol.3. [Naval history] Voenno-istoricheskii. Pt.1. [Text for the maps] Opisaniia k kartam. 1959. xxii, 1942 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. (Naval history)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

LEVCHENKO, G.P.

Legal possibilities for collective farmers to control their managerial personnel. Uch.zap.LGU no.274:125-139 '59. (MIRA 13:5)

(Collective farms--Officials and employees)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

CA

LEVCHENKO, G. T.

Compressibility of gas mixtures. II. [illegible] data for binary and ternary mixtures of methane, nitrogen and hydrogen. I. R. Krichevskii and G. T. Levchenko. [illegible] Compressibilities of 5 binary and 3 ternary mixts. of CH_4, N_2 and H_2 were detd. at 0°, 50°, 100°, 150° and 200°, and at 100-700 atm. at intervals of 100 atm. The data are satisfactorily described by the equation of state proposed by Krichevskii and Kasarnovskii (C. A. 33, 6104[4]). B. C. P. A.

No. 2

METALLURGICAL LITERATURE CLASSIFICATION

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LEVCHENKO, G.

G.

1345. COMPRESSIBILITY OF METHANE AND METHANE-AMMONIA MIXTURES AT HIGH TEMPERATURES AND PRESSURES. Kazarnovskii, Y. S. and Levchenko, G. I. (J. Phys. Chem. (U.S.S.R.) 1944, 18, 380-2: U.O.P. Res. Lab. Abstr. 13 Feb. 1946, 21, 28) The compressibility of methane under pressures of 86.6 to 1400 atm. was determined at 250 and 300° C. The data at 200°C. agree well with those observed at low pressures by Kvalnes and Gaddy, while some discrepancies were observed at 250 and 300° C. For determination of the compressibility of methane-ammonia mixtures the method of Michels was used. The binary mixtures contained respectively 32.84, 39.58, 53.85 and 55.72 per cent ammonia. The pressures used ranged from 82 to 1675 atm. and the temperatures from 150 to 300°C. The isometric graphs of the binary mixtures are straight lines within a wide interval of temperatures and pressures, which allows reliable extrapolation of these data to higher temperatures. The data obtained are quite satisfactorily represented by the equation of state for binary gaseous mixtures derived by Krichevskii and Kazarnovskii.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

CA LEVCHENKO, G.T.

2

Thermodynamic properties of compressed CH_4. G. T. Levchenko. Zh. Fiz. Khim. (U.S.S.R.) 18, [illegible] (1944). — Literature data are used to calc. fugacity, heat capacities, heat content, entropy, free energy and internal energy of CH_4 between −70 and 200° and between 10 and [illegible] atm. I. I. Bikerman

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929430003-1

[redacted]

LEVCHENKO, G. T.

KRICHEVSKIYI, I. R., KAZARNOVSKIYI, YA. S., and LEVCHENKO, G. T. (Nitrogen Inst. Moscow)
J. Phys. Chem. (USSR) 19, 314-22 (1945)
Thermodynamic properties of compressed nitrogen-hydrogen mixtures.

[redacted]

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LEVCHENKO, G. T., (Senior Eng. of GIAP) Cand. Chem. Sci.

Dissertation: "Compressibility of Gas Mixtures." Sci Res Order of the Labor Red Banner Physicochemical Inst imeni L. Ya. Karpov, 20 Jan 47.

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Surface Tension at the Boundary Liquid-Gas at High Pressures," Tr. Gos. n.-i. i proyektn. im-ta azot, prom-sti, No 1, 1952 (1953), pp 30-42

Method and equipment used are described. The surface tension of water, methane, benzene, lubricants, liquid ammonium, and other liquids was measured in pressure of various gases at pressures from 1 to 300 atm. (RZhFiz, No 7, 1955) SO: Sum.No. 713, 9 Nov 55

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Applying Antonov's rule to the system liquid - gas under high pressure. Part 5. Trudy GIAP no.7:38-41 '57. (MIRA 12:9)
(Surface tension) (Phase rule and equilibrium)

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Modified law of corresponding states. Trudy GIAP no.8:38-57 '57. (MIRA 12:9)

(Equation of state)

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Determining the nitrogen content of ammonium salts by the formalin method. Trudy GIAP no.8:243-245 '57. (MIRA 12:9)
(Ammonium salts) (Formaldehyde)

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Use of infrared rays for desiccation in determining the moisture content and insoluble residue of salts. Trudy GIAP no.8:246-247 '57. (MIRA 12:8)

(Salts) (Infrared rays)

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[Chemistry and technology of the products of organic synthesis; intermediate products for the synthesis of polyamides] Khimiia i tekhnologiia produktov organicheskogo sinteza; poluprodukty dlia sinteza poliamidov. Moskva, Goskhimizdat, 1963. 255 p. (MIRA 17:3)

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