#### CIA-RDP86-00513R000412030002-9



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### CIA-RDP86-00513R000412030002-9

921212124

BLOZO, V.P.
Work practice of Maykain medical sanitary units in the prevention of industrial accidents. Zdrav.Kasakh. 16 no.9:3-6 '56. (MIRA 10:1)
1. Zaveduyushchiy travmatologicheskim otdeleniyem Maykainskoy poselkovoy bol'nitsy Pavlodarskoy oblasti (nachal'nik medsan-chasti V.Rokovanov) (MAYKAIN--INDUSTRIAL SAFETY)

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ELOZO, V.P.; MAKAROVA, M.I., meditsinskaya sestra (Krasnodar)

Role of the nurse in the preparation and conduction of endotracheal anesthesia with controlled respiration. Med. sestra 22. no.1s53-55 Ja '63. (MIRA 16:7)

APPROVED FOR RELEASE: 08/22/2000



Hemanginendokusüisse ai tes hog. Veor. Scor. 91 nr.9/103 5163. (MTRA 17:4)



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NEYMARK, I.I. (Barnaul); SHVIND, G.N. (Chelyabinsk); ZHUK, Ye.A.; KONOVALOV, Ye.D. (Novosibirsk); SAVEL'YEV, V.I.; LYADOV, Yu.S. Yaroslavl'); KARAPETYAN, E.T. (Yerevan); FISHER, E.F. (Tomsk); TSINTSADZE, A.N. (Tbilisi); GOLOMAZOV, M.F. (Ternopol'); ELOZO, V.P. (Krasnodar); FEOFILOV, G.L.; MUKHIN, Ye.P. (Novosibirsk)

Abstracts. Grud. khir. 6 no.2:113-119 Mr-Ap '64. (MIRA 18:4)

IVENSKIY, Yu.N., inzh.; TULLER, A.G., inzh.; EL'PER, G.L., inzh.

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Elements of computing circuits in the control of continuous lines. Vest. elektroprom. 33 no.3:61-66 Mr <sup>4</sup>62. (MIRA 15:3) (Automatic control)

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IVENSKIY, Yu.N.; TULLER, A.G.; EL'PER, G.L.

Selecting current-supply sources for control circuits with wire communication equipment. Stan.i instr. 33 no.5:24-26 My 162. (MIRA 15:5) (Electronic control)

IVENSKIY, Yu.N.; TULLER, A.G.; EL'PER, G.L.

Protection systems for control circuits and supply sources. Stan.i instr. 33 no.7:5-9 J1 <sup>162</sup>. (MIRA 15:7) (Electric protection) (MIRA 15:7)

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IVENSKIY, Yu.N.; TULLER, A.G.; EL'PER, G.L. . In which the state of the sta

Counting circuits in the control of machine tools and automatic lines. Stan. i instr. 34 no.11:7-10 N '63. (MIRA 16:12)

# EL'PERIN, I.P.

First All-Union Conference on Heat and Mass Transfer. Inzh.fiz. shur. 4 no.7:124-127 J1 '61. (MIRA 14 (Heat-Transmission-Congresses) (Mass transfer-Congresses) (MIRA 14:8)

SOV/124-58-5-5241

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 41 (USSR)

AUTHOR: El'perin, I.S.

TITLE: Reducing the Diameter of the Centrifugal Compressors Used to Supercharge Portable Diesels (Umen! sheniye radial'nykh razmerov tsentrobezhnykh kompressorov, primenyayemykh dlya nadduva transportnykh dizeley)

- PERIODICAL: Tr. N.-i. labor. dvigateley M-va transp. mashinostr. SSSR, 1957, Nr 3, pp 65-87
- ABSTRACT: The relationship between the air-discharge constant and the diametral dimension of the compressor rotor is investigated. According to the author's calculations, the total relative losses in a compressor are at their minimum when the air-discharge constant is of the order of 0.28-0.4. Hence, at peripheral velocities of 300-400 m/sec an increase beyond the value customarily used for the air-discharge constant (of the order of 0.3 to 0.4) will be accompanied by a 10-12% decrease in the rotor diameter, without loss of compressor efficiency.

A.I. Loshkarev

Card 1/1 1. Centrifugal compressors--Design 2. Centrifugal compressors--Performance

APPROVED FOR RELEASE: 08/22/2000

EL'PERIN, I. T.

Nethodical seminar on over-all utilization of peat as fuel. Insh-fis.shur. no.1:124 Ja '59. (NIRA 12:1) (Peat)

- HL PERIN, I.T.

Nethod of combating knocking in internal carburetor-type combustion engines; combustion stabilizer. Trudy Inst. energ. AN BSSR no.9:116-129 159. (MIRA 13:10) (Gas and oil engines)

VARANKIN, Yu.V.; ML'PMRIN, I.T.

Production of water gas in engineering and power systems using milled peat. Trudy Inst.energ.AN BSSR no.10:37-45 '59'. (MIRA 13:6) (Peat) (Water gas)

84564

S/112/60/000/016/002/003 A005/A001

26.2252 Translation from: Referativnyy zhurnal, Elektrotekhnika, 1960, No. 16, pp. 5-6, # 2.10844

AUTHOR: El'perin, I. T.

TITLE: On a Rational Method for Estimating the Use of the Heat Potential in <u>Heat Exchange</u> Processes

PERIODICAL: Tr. in-ta energ. AN BSSR, 1959, No. 10, pp. 64-72

TEXT: The author mentions that the operation of heat exchange devices involved in the schemes of power engineering and power-technologic units is estimated by quantitative criteria: the efficiency  $\frac{\eta}{d_p}$  and the coefficient of heat retention  $\mathcal{E} = \frac{\eta_n}{d_p + q_c}$  (Q<sub>n</sub> is the heat received by the heated body, Q<sub>p</sub> is the heat disposable in the warming body, and Q<sub>c</sub> is the heat emitted into the surrounding medium). Hereat the utilization of the heat potential in them is not taken into account. It is assumed that the entropy coefficient, which can be applied to arbitrary heat utilization schemes, is simple, obvious, and independent of the nomical temperature of the surrounding medium;

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S/112/60/000/016/002/003 A005/A001

On a Rational Method for Estimating the Use of the Heat Potential in Heat Exchange Processes

$$Men = \frac{\Delta S_W}{\Delta S_h}$$

 $(\Delta S_w \text{ and } \Delta S_h \text{ are the changes in the entropy of the warming and heated heat carrier raspectively in the heat exchange device). This coefficient varies in the limits from 0 (maximum energy degradation in the process) to 1 (ideal reversible process). For heat exchange processes involved in the scheme of a thermodynamic cycle, the energetic coefficient must be used which was proposed by <u>M. D. Mikheyev</u>. The formula of the transition from the entropy coefficient to the energetic coefficient is presented.$ 

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M. N. N.

ABSTRACTOR'S NOTE: Subscript <u>en</u> (energy), <u>w</u> (warming), and <u>h</u> (heated) are translations of the original <u>en</u> (energiya), <u>g</u> (greyushchiy), and <u>n</u> (nagrevayemyy)

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

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24.5200	66 <i>1</i> 73		
AUTHOR :	El'perin, I. T.	s/170/59/002/11/021/024 B014/B014	
TITLE:	A Method for Intensifying He	at Exchange	
PERIODICAL:	inzhenerno-fizicheskiy zhurn	nal, 1959, Vol 2, Nr 11, pp 123-124 (USSR)	
ABSTRACT: Card 1/2	media in various technical p unnecessarily large and comp formance. The Institut energy Engineering of the AS BSSR) such processes. It does not or complicated equipment, an its principle is that a liqu the gaseous heat carrier and sification of heat exchange over the fine-disperse liqu made on liquid heat carriers 1600°C are summarised, and particularly suited for the	aity between gaseous and solid processes renders various devices plicated, and reduces their per- getiki AN BSSR (Institute of Power devised a method used to intensify require a large power consumption ad the solid need not be dispersed. aid heat carrier is injected between it the solid to be heated. The inten- between the gas and the solid id surface is discussed. The demands is in the temperature range 200°C - it is pointed out that salts are se purposes. A more detailed descrip- it in this article is given in Nr 11	

CIA-RDP86-00513R000412030002-9

A Method for Intensifying Heat Exchange

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68773 8/170/59/002/11/021/024 B014/B014

of the Trudy Instituta energetiki AN BSSR (Publications of the Institute of Power Engineering of the AS BSSR).

Card 2/2

EL'PERIN, I.T.

Second methodical seminar on the utilization of peat for power engineering in process industries. Insh.fiz.zhur. no.4:145-146 Ap 160. (MIRA 13:8 (Peat) (Power engineering)

S/262/62/000/004/007/024 I014/I252

 AUTHOR:
 El'perin, J. T.

 TITLE:
 Heat exchanger for low-power gas turbine installation

 PERIODICAL:
 Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1962, 35, abstract 42.4.215. "Tr. In-ta energ". AN BSSR, 1960, no. 11, 51-57

TEXT: Research results are reported regarding the optimal design of a heat exchanger for a low-power gas turbine installation. The method of experimentation is described. Research was carried out by heating the surface of heat exchanger elements by means of electric heaters and cooling by means of water. A study of models of three variants of lamellar heat exchangers yielded the optimum heating surface, made of pressed semi-spherical lobes (5 mm diameter and 2.5 mm height) arranged in a checker-board pattern, with 8 mm spacing in both directions. For the variant chosen, the heat exchange equation was obtained in the Re = 2500-9000 range.  $Nu_f = 0.11 \text{ Re}_f^{0.656}$  was compared with smooth lamellar heat exchangers, the use of plates with pressed noses leads to a marked increase (1.4-1.7 times) in heat exchange intensity. There are 2 figures.

[Abstracter's note: Complete translation.]

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#### CIA-RDP86-00513R000412030002-9

S/262/62/000/002/002/017 1008/1208

AUTHOR. El'perin, I.T.

TITLE: A method of increasing heat-exchange

PERIODICAL: Referetivnyy zhurnal, otdel'nyy vypusk. 42.Silovyye ustanovki, no. 2, 1962. 27, abstract 42.2.166. "Tr. In-ta energ. AN BSSR", no. 11, 1960, 58-70

TEXT: For increasing the heat exchange between a gaseous heat-carrier and a solid body an intermediate liquid heat-carrier at high temperature which absorbs the heat from the gas in a heat-exchanger is introduced. For this purpose a fine spray of the liquid heat-carrier counterflows the stream of gas, or the gases are injected into the liquid heat-carrier. The efficiency of the method is evaluated.

[Abstracter's note: Complete translation.]

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EL'PERIN, I. T.

"Investigation of Transfer Process in Contra-Streams."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

s/170/61/004/001/020/020 B019/B056

Elinerin, I. T. AUTHOR:

The Problem of the Terminology of Heat- and Mass Exchange TITLE:

Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 1, PERIODICAL: pp. 131-148

TEXT: After an introductory discussion of the inexact terminology at present used in the field of heat transfer, the author gives definitions of 93 terms in a table. The respective term, its definition, its symbol and its English and German translation are given. When compiling this terminology, the author proceeded from the following considerations: 1) Only such terms are mentioned here, as have hitherto no fixed name. 2) Special attention was paid to the analogous structure of the terms and sufficient brevity. 3) In selecting the terms, the introduction into literature and practice were taken into account. 4) No parallel definitions or synonyms were used. 5) Special stress was laid upon exactitude and utility of the definitions. 6) The terminologies of related disciplines were used. There are 1 table and 14 Soviet references.

Card 1/1

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EL'PERIN, I.T.

Heat and mass transfer in opposing currents. Inzh.-fiz. zhur. (MIRA 14:5) 4 no. 5:62-68 My 161.

1. Institut energetiki AN BSSR, Minsk. (Mass transfer) (Heat-Transmission) (Fluid dynamics)

Inst Heat & Mass Transfer

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26.5200

25552

S/170/61/004/008/002/016 B116/B212

UTHOR:	El'perin,	I.	T.	

TITLE: Heat exchange of a two-phase flow with a cluster of pipes

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 8, 1961, 30-35

TEXT: The present paper publishes the results of a preliminary investigation of a method used to intensify convective heat exchange from a gas to the heating surface by introducing a well diffused, liquid, intermediate heat carrier into the gaseous medium. The results of the experimental studies are also given with respect to aerodynamic and heat-exchange properties of a two-phase, gaseous-liquid heat carrier. At first, a reason for the method is given. It is shown that a very effective intensification of heat exchange can be reached if the density and viscosity of the heat carrier, and also the coefficients of molecular conduction and entropy are not too high in the flow core, while density, viscosity, conduction, and entropy of the medium in the boundary layer increase considerably. These conditions are fulfilled by a two-phase heat carrier consisting of a gaseous carrier medium with well dispersed, suspended drops of a nonvolatile liquid. The

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Heat exchange of a two-phase ...

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two-phase flow covers the heating surface; the drops of the liquid heat carrier are sprayed onto the heating surface and kept there; they form the liquid boundary layer, which is continuously blown off by the gas and renewed by keeping new drops of the liquid. The heat exchange is explained with the help of Fig. 1. The well dispersed, liquid, intermediate heat carrier is introduced into the heating gas. A large heating surface and direct contact with the gas raise the intensive heating of the drops of the intermediate heat carrier. The liquid heat carrier now reaches the heating surface where it forms a continuously renewing boundary layer, and the stored heat is transferred to the heating surface. For a stable operation the two-phase gaseous-liquid medium has to be established continuously. It is practical to divide the heat exchanger with the liquid intermediate heat carrier into several sections. It is possible to use various liquid intermediate heat carriers in different temperature zones. For the purpose of finding the effectiveness of heat exchange with a two-phase heat carrier, investigations have been made on a heat-exchanger model having horizontal clusters of pipes. Water served as a liquid intermediate heat carrier. The temperature of the two-phase medium was ~30 + 35°C and that of the transformer oil  $\approx 70^{\circ}$ C. The results of aerodynamic studies with a one-phase

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Heat exchange of a two-phase .25552

S/170/61/004/008/002/016 B116/B212

flow were used in the form of Eu = f(Re)

(5). For the two-phase flow,

the approximate expression  $Eu_{two-phase}/Eu_{one-phase} = 1 + 0.275 q$  (6) was used, where q denotes the weight concentration of the intermediate heat carrier. The test data can be approximated by

 $Nu_{two-phase}/ARe^{n} = 1 + Kq$  (9) for a two-phase flow, where A and n de-

note constants which depend on concrete heat exchange conditions; K denotes the proportionality factor and is a function of the type of intermediate heat carrier and the type of pipe cluster. Tests confirmed the usefulness of applying liquid intermediate heat carriers for intensifying the heat exchange between a gaseous heat carrier and the heating surface. A twophase medium is a more effective heat carrier than each single component of it. The effectiveness of this method for intensifying the heat exchange is marked by a small increase of the aerodynamic resistance of the system when changing from a single-phase into a two-phase flow. At the same time, the heat exchange intensity will increase considerably. The effectiveness is mainly a function of the physical properties of the liquid intermediate heat carrier, which has to be chosen by taking into account the highest

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Heat exchange of a two-phase ...

S/170/61/004/008/002/016 B116/B212

temperatures of the heating gas and also the lowest ones of the heating surface. For  $300 \div 350^{\circ}$  organo-silicon compounds (tetracresylsilicate, tetrasililoxilane, etc) are suggested. There are 3 figures and 4 Soviet-bloc references.

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering, AS BSSR, Minsk)

SUBMITTED: May 17, 1961

Fig. 1: Diagram of a heat exchanger with liquid intermediate heat carrier.

Legend: 1) Feed pipes; 2) overflow plate (or diffuser) for dispersing the heat carrier; 3) pipe heat exchanger; 4) partition walls; 5) inertial drip tube of the liquid heat carrier; 6) filter; 7) pipe transporting the collected heat carrier for repeated dispersion; 8) exhaust; 9) container for collecting the intermediate heat carrier; 11) pump; 10) and 12) pipe for the liquid intermediate heat carrier; 13) heat carrier to be heated; 14) gaseous heat carrier.

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EL'PERIN, I.T.

International journal "Teplo- i massoperence." Reviewed by I.T. El'perin. Inzh.-fiz. zhur. 4 no.9:136-137 S '61. (MIRA 14:8)

(Heat---Transmission) (Mass transfer)

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OVCHINDIKOV, V.I., glev. red.; OSHCHEPKOVA, V.A., red.; PEKELIS, G.B., red.; VOLKOV, N.P., red.; EL'PERIN, I.T., red.; ATNKOV, S., tekhn. red.

> [Thermal and electric power]Teploenergetika; nauchno-tekhnicheskii sbornik. Minsk, 1961. 80 p. (MIRA 15:11)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti. Belorusskoye respublikanskoye otdelenio. (Power engineering) (Electric power)

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EL'PERIN, I.T. International journal "Teplo- i Massoperenos." Inzh.-fiz.zhur. 5 no.3:137-138 Mr '62. (MIRA 15 (MIRA 15:3) (Heat-Transmission) (Mass transfer)
SMOL'SKIY, B.M.; EL'PERIN, I.T.

Special issue of the international journal "Heat and Mass Transfer" in commemoration of the 70th birthday of Ernst Heinrich Schmidt. Inzh.-fiz.zhur. 5 no.9:127-131 S '62. (MIRA 15:8 (Schmidt, Ernst Heinrich, 1892-) (Heat-Transmission) (Mass transfer) (MIRA 15:8)

45413 s/170/63/006/003/005/014 B104/B186

24.5.200 AUTHOR: El'perin, I. T.

TITLE:

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Relationship between intensity and irreversibility of a beat transfer process

PERIODICAL: Inzhengrno-fizicheskiy shurnal, v. 6, no. 3, 1963, 40 - 44

TEXT: An attempt is made to find an analytical relation between the heat transfer coefficient  $\alpha$ , characterizing the kinetics of the heat transfer process, and the entropy factor ), characterizing the degree of deviation of the process from reversibility. Working from previous papers the re-

lation  $\alpha = b(1 - \eta_{en})^{-1}$  (10) is derived, where  $b = q/CT_{c}$ ; q is the ther-. mal load of the heating surface, C is a constant, and T is the sean

temperature of the heated and the heating heat transfer agent. Using the definition  $\gamma_{en} = |\Delta S_{\mu}| / \Delta S_{\mu}$  and (10) the amount of irreversibility of a heat transfer process is described by  $\Sigma \Delta s = b \Delta s_{\mu} / \alpha$  (11), where  $\Sigma \Delta s = b \Delta s_{\mu} / \alpha$  $\Delta s_{H} + \Delta s_{\Gamma}$  is the change of entropy in the heat transfer system.  $s_{H}$  and  $s_{\Gamma}$  are the changes of entropy in the heated and in the heating heat Card 1/2

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	between intensity	• B104/B186		
of the heat po variable quant where s'(F) =	tential and reduces tity and its local $ds_{C(u)}/dF$ , and $\eta_{th}$	d (11) show that an in itions improves the ef irreversibility. In value is determined by is the thermal efficien btained may be used to	ficiency factor general $\alpha$ is a $\alpha =   s'(P)   / \eta_{tk}$	
ASSOCIATION:	Institut teplo- i mas of Heat and Mass Tra	soobmena AN BSSR, g. 1 Insfer AS BSSR, Minsk)	linsk (Institute	•
	October 15, 1962			
				•

LYKOV, A.V., akademik, red.; SMOL'SKIY, B.M., prof., red.; KUTATELADZE, S.S., prof., red.; PALEYEV, I.I., prof., red.; <u>EL'PERIN, I.T.,</u> kand. tekhn. nauk, red.; TIMOFEYEV, L., red. izd-va; VOLOKHANOVICH, I., tekhn. red.

> [Heat and mass transfer]Teplo- i massoperenos; doklady. Pod obshchei red. A.V.Lykova i B.M.Smol'skogo. Minsk, Izd-vo Akad. nauk BSSR. Vol.2.[Heat and mass transfer during phase transitions and chemical transformations]Teplo- i massoperenos pri fazovykh i khimicheskikh prevrashcheniiakh. 1962. 377 p. (MIRA 16:3)

1. Vsesoyuznoye soveshchaniye po teplo- i massoobmenu. lst. Minsk, 1961. 2. Akademiya nauk Belorusskoy SSR (for Lykov). (Heat--Transmission) (Mass transfer) (Phase rule and equilibrium)

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## CIA-RDP86-00513R000412030002-9

s/862/62/002/000/019/029 A059/A126

El'perin, I.T. AUTHOR:

Intensification of heat transfor between a gas and a solid surface TITLE: with the aid of an intermediary liquid heat-transfer agent

Teplo- i massoperenos. t. 2: Teplo- i massoperenos pri fazovykh i SOURCE: khimicheskikh prevrashcheniyakh. Ed. by A.V. Lykov and B.M. Smol'skiy. Minsk, Izd-vo AN BSSR, 1962. 181 - 189

Results of previous study on the intensification of convective heat transfer by way of using a liquid heat-transfer agent treated by the author are text: considered (IFZh, no. 11, 1959; Trudy Instituta energetiki AN BSSR, no. 11, 1960). This is done by introducing a high-temperature liquid heat-transfer agent absorbing heat from a gas in a mixing heat exchanger with either sprinkling of the packing or gas bubbling through the liquid heat-transfer agent. The effect of introducing the intermediary heat-transfer agent was previously found to be approximately

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### CIA-RDP86-00513R000412030002-9

s/862/62/002/000/019/029 A059/A126 Intensification of heat transfer between ....  $\frac{F}{F'} = \frac{\frac{1}{\alpha_1}}{\frac{1}{\alpha_1} + \frac{1}{\alpha_2}},$ (3)where F and F' are the heated surfaces of the heat exchanger in usual-type apparatus and those with an intermediary heat-transfer agent, respectively;  $\alpha_1$ ,  $\alpha_1^{i}$ , and  $\alpha_2^{i}$  are the coefficients of heat transfer from the gas side in the absence of an intermediary heat-transfer agent, between the intermediary heat--transfer agent and the heated surface, and from the side of the heated medium. Methods of heat-transfer intensification by way of separate heating and cooling of the intermediary heat-transfer agent and with combined heating and cooling of the same were tested, and it was shown theoretically that a two-phase heat-transfer agent consisting of a gasoues carrier with suspended finely divided drops of a non-volatile liquid gave optimum results which can be put into practice in different ways. Less energy is consumed for a given intensity of heat transfer, when the combined heating is used. The efficiency of this method of heat-transfer intensification is characterized by an insignificant increase of the aerody-

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Intensification of heat transfer between ....

namic resistance of the system on transition from single-phase to two-phase flow, with simultaneous considerable increase of the intensity of heat transfer. Thus, for a four-row chessboard-like assembly of pipes with water as the heat-transfer agent, the resistance of the system increases at a weight concentration of the liquid phase, g = 0.2, 1.055 times and the coefficient of heat transfer 17 times as compared to the single-phase gas medium. The efficiency of the given method is shown to depend on the physical properties of the intermediary heat-transfer agent which should be selected both with respect to maximum temperature of the heating gas and to minimum temperature of the heated surface. Organosilicon compounds such as tetracresyl silicate and tetraxylylosilane, and others are recommended for temperatures up to 300 - 350°C. There are 7 figures.

ASSOCIATION: Energeticheskiy institut AN ESSR, g. Minsk (Power Engineering In-Quest Heat & Marsa stitute of the AS BSSR, City of Minsk) Finafer

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### CIA-RDP86-00513R000412030002-9

S/362/62/002/000/020/029 A059/A126

AUTHOR: El'perin, I.T.

TITLE: Investigation of transfer processes in countercurrent streams

SOURCE: Teplo- 1 massoperenos. t. 2: Teplo- 1 massoperenos pri fazovykh i khimicheskikh prevrashcheniyakh. Ed. by A.V. Lykov and B.M. Smol<sup>\*</sup>skiy. Minsk, Izd-vo AN BSSR, 1962. 190 - 197

TEXT: The results of previous investigations of transfer processes in countercurrent apparatus are analyzed in this paper. The countercurrent-flow method which is used to intensify heat and mass-transfer processes in gaseous suspensions is based on the repeated separation of the gaseous suspension into separate streams with subsequent impact mixing at an angle of 180° which is followed by new separation, etc. The observed increase in the solid-phase concentration in the region of impact, vibratory motion of the particles, and their penetration from one stream into another showed that the accepted model used to simulate the phenomenon has been confirmed in practice which indicates a substantial intensification of heat and mass transfer processes in this device. The coefficient of local resistances in the impact region of the self-similating Card 1/3

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## CIA-RDP86-00513R000412030002-9

Investigation of transfer processes in ....

s/862/62/002/000/020/029 A059/A126

zone was found to be  $\xi_{gpe0} = 2Eu \approx 1$ . Calculations show that the total resistance of an apparatus containing 3 to 4 units, at a mean velocity of the gas  $v_g = 24 \text{ m/sec}$  and a specific gravity  $\gamma_g = 1.0$ , is 120 to 160 nm water gauge. The calculated coefficient of heat transfer in the counterflow model at a velocity of the air stream  $v_g = 22 \text{ m/sec}$  reached  $\alpha = 25,000 \text{ kcal/m}^2 \cdot h \cdot \text{degree}$ , while the coefficient of heat transfer for poppy seeds calculated from the velocity of suspension is  $\alpha_p = 400 \text{ kcal/m}^2 \cdot h \cdot \text{degree}$ . The sharp increase of the calculated coefficient of heat transfer in "countercurrent streams" as compared to the usual gaseous suspension is explained to be due to the following facts: a) the velocity of phase motion in the impact region is 8 to 10 times that of suspension of poppy seeds; b) a 5 to 7-fold increase in solid concentration occurs in the region of impact; c) impact mixing promoted the agitation of the gas flow; and d) the surface of the increase in concentration cannot be distinguished from that of the relative velocity of phase motion and other factors intensifying the transfer processes, the conventional value of the calculated coefficient of heat transfer in solid concentration and other factors intensifying the transfer has been introduced incorporating the total effect of the method of countercurrent flows. Assuming in the case considered a 5-fold

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Investigation of transfer processes in ....

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increase in the solid concentration, the actual coefficient of heat transfer related to the poppy-seed surface will be 6,000 kcal/m<sup>2</sup>  $\cdot$  h · degree. By way of increasing the relative velocity, a 7-fold increase of & is obtained; the other factors leading to an about double increase in the coefficient of heat transfer. The favorable conditions obtained with countercurrent-flow devices is shown by the power of the Reynolds criterion in the critical heat and mass-transfer equation:

> $Nu = 9.6 \cdot 10^{-5} Re^{1.9}$ (4)

resulting in an approximately equal increase in the hydrodynamic resistance of the apparatus and in the intensity of heat and mass-transfer processes when the velocity of flow is increased. The practical applications of the countercurrentflow method are shown. There are 5 figures.

ASSOCIATION: Energeticheskiy institut AN BSSR, g. Minsk (Power Engineering Institute of the AS BSSR, City of Minsk)

Card 3/3

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EL'PERIN, I.T.

Symposium on Convective Heat Transfer in Incompressible Liquid Flow, held at Kaunas. Inzh. -fiz. zhur. 5 no.10:125-129 D '62. (MIRA 15:12) (Heat-Convection) (Hydrodynamics)

EL'PERIN, I.T.

Heat and mass transfer in reacting systems. Inzh.-fiz. zhur. (MIRA 17:2) no.12:27-34 D'63.

1. Institut teplo- i massoobmena, Minsk.

Drot Heat & Mass Transfer

EL'PERIN, I.T.

Relation between the intensity and irreversionity, 5 transfer process, Inzh.-fis.zhur. 6 no.3:40-44 Mf '63. (MIRA 16:5)

1. Institut teplo- i massoobmena AN ESSR, Minsk. (Heat-Transmission) (Irreversible processes)

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1. -----

L 14397-63	EFR/EWT(1)/EFF(c)/EF	F(n)-2/EDS APFTC/ASD/SSE	Ps-4/Pr-4/
Pu-4 WH/IJI ACCESSION NR	P(C) R: AP3003053	S/0170/63/000/	· . ·
AUTHOR: El'	perin, I, T. (Minsk)		11
TITLE: Indi	cators of the efficiency of	transport processes	10
SOURCE: Inz	henerno-fizicheskiy shurnal,	no. 6, 1963, 100-105	
	transport process , power		ocess irrever-
mass transfer K sub q(m), wt the process, yny metod ras	he author develops the methor rtation, AN ESSR, Minsk)7 of <u>processes</u> () Two indicators bich characterizes the power and the entropy coefficient icheta energeticheskikh poten	are proposed: The power consumption for a prescri Eta sub en (Gokhshteyn D.	of <u>heat and</u> efficiency bed rate of P. (Entropi-
	the irreversibility of the for the optimization of trans		
	Institute of Heat and Mass		

EL'PERIN, I.T.

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Intercollegiate Conference on industrial heat engineering. Inzh.-fiz. (MIRA 16:10) zhur. 6 no.8:138 Ag '63.



EL'PERIN, I.T.; MINKOV, V.A.

Thermodynamic optimization of technological heat exchange systems with cascade fluidized beds. Inzh.-fiz. zhur. 6 no.11:32-41 N '63. . (MIRA 16:11)

1. Institut teplo- i massoobmena AN BSSR, Minsk. Doct. Heat V Man Deansfer

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## APPROVED FOR RELEASE: 08/22/2000

ACCESSION NR: AP4044412

S/0170/64/000/008/0016/0019

AUTHORS: El'porin, I. T.; Galershteyn, D. M.; Levental', L. I.

TITLE: The influence of surface effects and mobility on processes of transfer in heterogenic systems

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 8, 1964, 16-19

TOPIC TAGS: flow channel, pipe flow, Reynolds number, heat exchange, mass exchange, flow velocity pulsation, hydrophobization/ GKZh 94 hydrophobization liquid, PPTN1 potentiometer, GZP 47 galvanometer

ABSTRACT: The influence of velocity pulsation and wall moistening on the Reynolds number was studied. A special test apparatus was designed and is shown in Fig. 1 on the Enclosures. In the first series of tests to determine the influence of velocity pulsation upon Reynolds number observations were made of the distribution of water temperature along the test pipes and of the pulsation frequency. Laminarto-turbulent flow transition was made visually, thus determining a minimal Reynolds number range. Resulting values of Reynolds number versus pulsation frequency in cycles per second are shown in Table 1 on the Enclosures. The second series of tests determined the influence of wall absorption on the critical Reynolds number. GKZh-94 hydrophobization silica suspension liquid was used in the tests, and Card 1/4

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CIA-RDP86-00513R000412030002-9

ACCESSION NR: AP4044412

measurements were taken with a PPTN-1 potentiometer and a G2P-47 galvanometer. Results indicated that for a Reynolds number between 5000 and 10000 the heat exchange intensity and pipe hydrophobization were less than those for a pipe without hydrophobization treatment. The authors expressed the opinion that the superposition of velocity pulsations and wall hydrophobization decreases the value of the Reynolds number and changes the relationship Nu = f(Re). Orig. art. has: 2 figures, 3 equations, and 1 table.

ASSOCIATION: Institut teplo-i massoobmena AN BSSR (Institute of Heat and Mass Exchange, AN BSSR)

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中国政治学校

ZABRODSKIY, S.S.; LEYZEROVICH, G.Ya.; RASHKOVSKAYA, N.B.; EL'PERIN, I.T.

All-Union seminar on the fluidized bed. Inzh.-fiz. zhur. 7 no.5: (MIRA 17:6) 121-124 My 164.

EL'PERIN, I.T.; GALERSHTEYN, D.M.; LEVENTAL', L.I.

Effect of surface phenomena and unsteadiness on transfer processes in heterogeneous systems. Inzh.-fiz. zhur. 7 no.8:16-19 Ag '64. (MIRA 17:10)

1. Institut teplo- i massoobmena AN BSSR, Minsk.

6

EL'PERIN, I.T.; MINKOV, V.A.

Use of two-phase systems as thermodynamic working substances. Inzh.-fiz. zhur. 7 no.9:102-107 S <sup>1</sup>64. (MIRA 17:12)

1. Institut teplo- i massoobmena AN Belorusskoy SSR, Minsk.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412030002-9

EL'PERIN, I. T.; GALERSHTEYN, D. M.; LEVENTAL', L. I.

"The influence of unsteadiness and of surface effects on the flow regime and heat transfer."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Inst of Heat & Mass Transfer, AS BSSR.

APPROVED FOR RELEASE: 08/22/2000

EL'PERIN, I. T.; ANTIFOV, V. V.; GALERSHTEYN, D. M.; PAVLOVSKIY, L. M.; KHOKHLOV, V. Z.

"Study of transfer processes in two-phase systems of suspension type with some properties of phase interaction arrangement."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

All-Union Sci Res Inst NSM

APPROVED FOR RELEASE: 08/22/2000

EL'PERIN, I.T.; RABINOVICH, G.D.

Second All-Union Conference on Heat and Mess Transfer. Inzh.-fiz. zhur. no.10:130-137 0 '64. (MIRA 17:11)

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412030002-9 AT5027199 WW/DJ UR/0000/65/000/000/0130/0137 ACC NR WW/DJ . 44,55 44155 96 Smol'skiy, B.M. (Professor); El'perin, I. T. AUTHOR: 1271 441 55 ORG: Heat and Mass Transfer Institute, AN BSSR, Minsk (Institut teplo- 1 massoobmena AN BSSR) V TITLE: Effect of the lubricating property of a surface on the transfer process in systems consisting of a drop-form liquid and a solid body SOURCE: AN BSSR. Institut teplo- i massoobmena. i massoobmen tel s okruzhayushchey gazovoy sredoy (Heat and mass exchange of bodies with the surrounding gaseous medium). Minsk, Nauka i Tekhnika, 1965, 130-137 21, 44, 55 1,55 TOPIC TAGS: surface active agent, heat transfer, Reynolds number, FRICTION, FLUID FLOW, HYDRODYNAMICS, LUBRICATION 1,55 ABSTRACT:"'S A determination was made of the hydrodynamic friction resistance in the flow of a fluid in tubes. The surface of the tubes was carefully cleaned to avoid the presence of adsorbed films of foreign material. On the basis of experimental data obtained on the flow time of the fluid, determinations were made of the friction coefficients of tuber made of various materials. The walls of the tubes were rubbed previously with distilled water and with various surface active agents. 7 The effect of the surface active agents appears gradually and reaches a maximum after a period of from 1 to 10 minutes, after which it remains con-Card 1/2

APPROVED FOR RELEASE: 08/22/2000

I. 8836-66 AT5027199 0 ACC NR: The experimental data are presented in tabular form. It is stant. noted that in individual cases the friction coefficient was lowered by 22%. The article goes on to consider the effect of pulsation velocity and lubricating properties on the lowering of the critical Reynolds number. A diagram of the experimental apparatus is given. In the experiments, measurements were made of the temperature of the water, its flow rate through the tube, the duration of the test, and the frequency of the pulsations. The equipment permitted visual observation of the transition point from laminar to turbulent flow, and determination of the critical Reynolds number, which lay within the limits of 2250-2350. A second series of experiments was made to determine the effect of lubricating properties on the lowering of the critical Reynolds number. It was found that, with application of pulsation to flow in a tube which has been treated with surface active agents, the critical Reynolds number was lowered to 1200-1300. Finally, the article considers the effect of lubricating properties on heat transfer. In this case, experimental results indicate that at low Reynolds numbers, from 5,000 to 10,000, the intensity of heat transfer in a tube treated with surface active agents is less than in a tube without coating. For Reynolds numbers greater than 10,000, heat transfer in the treated tube was greater than in the uncoated tube. Orig. art. has: 2 figures and 1 table. ORIG REF: 005/ OTH REF:002 SUBM DATE: 02Jul65/ SUB CODE: ME, GO/ G /2 Cord

## APPROVED FOR RELEASE: 08/22/2000

L 2031-66 = EWT(1)/EWT(m)/EPF(c)/ETC/EPF(n)-2/EMG(m)/EMP(j)/T/ETC(m)	RPL WW/JW/WE/
ACCESSION NR: AP5022389 , UR/0170/65/009/003/0	364/0368
AUTHOR: El'perin, I. T. 45 536. 25+536. 75	61
TITLE: Thermodynamic investigation of heat and mass transfer in t	
flow of a gas syspension	the nonunitorm
SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 3, 1965, 364-3	68
TOPIC TACS, thermaline in the set	
TOPIC TAGS: thermodynamics, heat transfer, mass transfer, then state equation	rmodynamic
ABSTRACT: In the nonuniform movement of the flow of a gas susper	asion in addi-
tion to thermodynamic forces, new forces appear which increase the	e rate of the
transfer process. To determine these forces, the article considers	a nonuniform
multicomponent flow of a gas containing suspended elementary nucle sist of particles of the solid surrounded by a blanket of gas whose co	ei which con-
different from the composition of the carrier gas. It is assumed the	omposition is
alscrete system can be approximately described as a continuous mu	lticomponent
gas mixture, with a different rate of motion of the individual compo	nents relative
to the center of mass of the system. For the purposes of the calcul	ation, it is
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	ACCESSION NR: AP5022389	2 	4
•	assumed that the internal energy of a unit of mass of the multicomponent gas mixture is equal to the difference between the total energy of the gas and the po- tential and kinetic energies of all components. The final equation derived permit determination of the characteristic acceleration of the system. Orig. art. has:	.8	
	ASSOCIATION: Institut teplo-'i massoobmena AN BSSR, g. Minsk. (Institute of SUBMITTED, co		
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<u>L 26393-66</u> EWP(m)/EPF(n)-2/EWP(j)/EWT(l)/EWT(m)/ETC(m)-6/T/EWA(d) RM/WW/DJ ACC NR: AP6007191 SOURCE CODE: UR/0170/66/010/002/0235/0239		-
AUTHORS: El'perin, I. T.; Smol'skiy, B. M.; Levental', L. I. 79		
ORG: <u>Institute of Heat and Mass Transfer, Academy of Sciences BSSR, Minsk</u> (Institut teplo- i massoobmena AN BSSR)		
TITLE: On the problem of lowering the hydrodynamic resistance in conduits		J
SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 2, 1966, 235-239		<b>A</b>
TOPIC TAGS: fluid friction, friction loss, polymer rheology, Reynolds number, turbulent flow, laminar flow ABSTRACT: The reduction of hydraulic friction in tubes or pipes by adding high-		
molecular weight polymers is analyzed. It is shown that these surface-active $\eta$ polymers are absorbed on the tube walls and oriented in such a manner in the laminar sublayer that they lower the skin friction, generate slip near the wall, and damp out turbulent fluctuations. Starting with the power law equation for shear in rheological admixtures $ \tau = k \gamma^{2} $		;
or, $(\tau = D\Delta P_{y}/4L = k' (8\omega_{m}/D)^{n}),$ Card 1/2 IDC: 535 501 3121525 502 2.525 547 4	2	

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CIA-RDP86-00513R000412030002-9

L 26393-66 ACC NR: AP6007191 0 the following expression is derived for the modified flow rate in a tube after the addition of the polymers, 1.71-0 a = 3.20.3164 A numerical example is given to illustrate the point. Orig. art. has: 10 formulas. 20/ SUBM DATE: 118ep65/ ORIG REF: 012/ OTH REF: SUB CODE: 006 Card 2/2 62 Ľ

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L 44227266 EWT(1)/EVP(m)/EWT(m)/T IJP(c) DS/WW/JW/WE	-
ACC NR: AP6024636 SOURCE CODE: UR/0170/66/011/001/0037/0041	•
AUTHOR: Lebedev, P. D.; Leonchik, B. I.; El'perin, I. T.	.i i 7
ORG: <u>Power Engineering Institute</u> , Moscow (Energeticheskiy Institut); Heat and Mass Transfer Institute, AN BSSR, Minsk (Institut Teplo- 1 Massoobmena AN BSSR)	
TITLE: Determination of transport potential fields in flow of coarsely dispersed gas suspensions A	
SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 1, 1966, 37-41	
TOPIC TAGS: combustion, spray flame, two phase flow, ges flow, energy transport, calorimeter	
ABSTRACT: A theoretical and experimental study was made of the interphase energy transport in coarsely dispersed systems. In the	
analysis, the flow of the two-phase system was considered to be quasi- homogenous with sources and sinks of matter. The redistribution of the	
potentials (temperature gradient, chemical potential, energy flux) takes place due to the interaction of the phases. A differential calorimeter	
is described for determining the mean particle temperature on the basis of a compensation method. The generalized data on the local transport	
processes can be used for calculating spray flames Orig. art. has: 4	-
Card 1/2 UDC: 541.182.2/.3	

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L 44227-66 ACC NR: AP60240	536	· · · · · · · · · · · · · · · · · · ·				0.
formulas and 2	figures.				· · ·	
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EL'PERIN, S., inshener (Rige).

Production norms based on technology. Prom.koop. no.8:24-25 Ag 157. (MIRA 10:9)

(Production standards)

MATUL'SKIY, I. G.; EL'PERIN, S. A.

Determination of the demand of railroad workers for preventive care by preventive medicine institutions. Zdrav. Ros. Feder. 6 (MIRA 15:7) no.8:17-20 Ag '62.

1. Iz otdeleniya organizatsii i ekonomiki zdravookhraneniya na zheleznodorozhnom transporte (rukovoditel' I. G. Matul'skiy) Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnoy gigiyeny (dir. P. N. Matveyev) Ministerstva putey soobshcheniya.

> (RAILROADS \_\_ EMPLOYEES \_\_ MEDICAL CARE) (MEDICINE, PREVENTIVE)

<u>L 24508-66</u> EWT( <u>m</u> )/EWP(t) IUP(c) JD ACC NR: AP6007713 SOURCE CODE: UR/0413/66/000/003/0112/0112	
AUTHOR: Grinshpun, S. I.; Zakis, Ya. M.; Kokle, A. L.; El'perin, S. I.	
ORG: none	
TITLE: Device for metallizing in vacuum. Class 48, No. 178635 [Announced by the	
Design and Technological Office for Metallizing in Vacuum, Council of National Econ	0-
my, Latvian SSR (Kostruktorsko-technologicheskoye byuro metallizatii v vakuume SNKh	
Latviyakoy SSR)]	1
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 112	
TOPIC TAGS: metallizing, vacuum metallizing	
ABSTRACT: An Author Certificate has been issued describing a device for metallizin	
in vacuum. It consists of vacuum chambers with drums, cells, evaporators, vacuum	8
shut-off devices, shut-off devices, a collector, an oil-absorbing filled trap, and	1.1
a vacuum-producing system. To simplify the design and reduce the operating cycle,	
the evaporators are made to serve simultaneously as glow-discharge electrodes and	
the entire space of the collector is filled with an oil-absorbing material. To see	ure
the collector in a vertical position, it is equipped with a self-adjusting lever-ty	
tightening dev.ce (see Fig. 1). [LD]	-
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Card 1/2 UDC: 621.793.093.14	

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# EL'PERIN, Ye.Z.

Result of prolonged eleep therapy of rheumatism in children. Vopr. pediat. 20 no.4:3-8 July-Aug 1952. (CLML 23:2)

1. Senior Scientific Associate. 2. Of the State Scientific-Research Pediatric Institute (Director -- A. L. Libov; Scientific Supervisor --Prof. A. B. Volovik).

<pre>Materials on the clinical and immunological characteristics of rheumat fever in children. Vop.okh.mat. i det. 1 no.5:34-39 S-0 '56. (MIRA 9:11) nental'noy meditsiny i iz revmaticheskogo otdleniya Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir prof. A.L.Libov), Leningrad. (RHEUMATIC FEVER)</pre>	SMIRN	OVA, A.H., kandidat meditsinskikh r meditsinskikh nauk	auk; EL'PERIN, Ye.Z., kandidat
1. Iz otdela mikrobiologii (zav prof. V.I.Ioffe) Instituta eksperi- mental'noy meditsiny i iz revmaticheskogo otdleniya Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir prof. A.L.Iibov), Leningrad.		Materials on the clinical and imm fever in children. Vop.okh.mat. i	unological characteristics of rhoumatic det. 1 no.5:34-39 S-0 156
		1. Iz otdela mikrobiologii (sav. mental'noy meditsiny i iz revmati nauchno-issledovatel'skogo pediat A.L.Libov), Leningrad.	(MIRA 9:11) - prof. V.I.Ioffe) Instituta eksperi-
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ARBUZOV, Yu.A.; BOLESOV, I.G.; BREGADZE, V.I.; KOLOSOV, M.N.; SHEMYAKIN, M. M.; EL'PERINA, Yo.A.

> Tetracycline series. Report No.18: Synthesis of 2- and 3-substitu-ted 9-keto-1,2,3,4, 4,99,9, ,10-octahydroanthracenes. Izv.AN SSSR. Ser.khim. no.2:310-319 F '64. (MIRA 17:3) (MIRA 17:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KUCHEROV, V.F.; ONISHCHENKO, A.S.; RUDENKO, B.A.; EL'PERINA, Ye.A. STATE STATE

> Influence of the temperature on the structural directivity of diene synthesis. Dokl. AN SSSR 158 no.2:897-399 S '64.

(MIRA 17:10) 1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Predstavleno akademikom B.A.Kazanskim.

#### CIA-RDP86-00513R000412030002-9

GUSEV, B.P.; EL'PERINA, Ye.A.; KUCHEROV, V.F.

Isomerization of alkyl diacetylenes. Izv. AN SSSR. Ser. khim. (MIRA 18:9) no.9:1659-1660 '65.

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

EL'PERINA, Yo.A.; GUSEV, B.P.; KUCHEROV, V.F.

Conversions of secondary diacetylenic alcohols as a result of alkaline isomerization. Izv.AN SSSR.Ser.khim. no.12:2215-2216 165. (MIRA 18:12)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Submitted April 14, 1965.

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## ELPIDIN, J. V.

"Anatomic Investigation of the Shoulder Plexus of the Hiver Beaver." Thesis for degree of Candi. Biological Sci. Sub 4 Apr 49, Moscow Fur and Pelt Inst

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Hoscow in 1949. From Vechernyaya Roskva, Jan-Dec 1949.

APPROVED FOR RELEASE: 08/22/2000



APPROVED FOR RELEASE: 08/22/2000



ELPIDINA, O. K.

ELPIDINA, O. K. "Biological Method of Determining the Toxicity of Grains causing Septic Sore Throat," <u>Comptes Rendue (Doklady) de l'Arademie des Sciences de l'UESS</u>, vol. 51, no. 2, 1946, pp. 167-168. 511 P444.

So: SIRA S190-15, 15 Dec. 1953

#### CIA-RDP86-00513R000412030002-9



# APPROVED FOR RELEASE: 08/22/2000

ELPIDINA, O.K.

Antibiotic and antiblastic properties of poine. Antibiotiki 4 no.4:46-50 J1-Ag '59. (MIRA 12:11)

1. Laboratoriya kafedry obshchey biologii (zav. - prof.V.V. Izosimov) Kazanskogo meditsinskogo instituta i laboratoriya patologicheskoy fiziologii (zav. N.I.Vylegzhanin) Kazanskogo instituta usovershenstvovaniya vrachey. (ANTIBIOTICS pharmacol) (ANTINEOPLASTIC AGENTS pharmacol)

APPROVED FOR RELEASE: 08/22/2000

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ELPIDINA, O.K., kand.biologicheskikh nauk (Kasan')

Problems in the biology of the cancer cell in the Eighth International Anticancer Congress (Moscow, July 22 to 28, 1962). Kaz\_med.zhur. no.5190-92 S-0 '62. (MIRA 16:4) (CANCER RESEARCH-CONGRESSES)

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#### CIA-RDP86-00513R000412030002-9

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# ELPIDINA, O.K.

Some functional and morphological changes in tumorous cells under the influence of poin. Nauch. trudy Kaz. gos. med. inst. 14:3274 (MIRA 18:9) 328 164.

1. Kafedra obshchey biologii (zav. - prof. V.V.luosimov) i tsentral'naya nauchno-issledovatel'akaya laboratoriya Kazanskogo meditsinskogo instituta.

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EXCERPTA MEDICA Sec 17 Vol 5/8 Public Health Aug 59 ------2326. DISINFECTION OF DRINKING WATER WITH THE COMBINED ACTION OF ULTRASONIC WAVES AND SMALL DOSES OF DISINFECTANTS (Russian text) - Effpiner L.1. - GIG. I SAN. 1958/7 (26-29) Graphs 1 Tables 2 lilus. 2 A high bactericidal effect on Esch. coli has been obtained by the action of ultrasonic waves over a considerable period (10-15 min.). During shorter exposure periods the ultrasonic waves were active only in combination with small doses of disinfectants (chlorine, hydrogen peroxide); the authors obtained bactericidal effects in running water. The disinfecting action depended on the rate of water flow, time of exposure and depth of the water layer. Cent. See. Res dat uppy no volnom the i kafedry kommunal gigisjene I moscow OL ned in Schenou Sec. • •• . ÷ .

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1. Iz Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny imeni F.F.Erismana Ministerstva zdravookhraneniya RSFSR i kafedry kommunal'noy gigiyeny I Moskovakogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. (WATER-PURIFICATION)

(ULTRASONIC WAVES ... INDUSTRIAL APPLICATIONS)

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