

SOV/96-59-5-7/19

Selection of the Type of Heater for High-Viscosity Fuels

heater and the cracking residue is given in Eq (2). It will be seen that the agreement between theoretical and the test results is good. Graphs of the total hydraulic resistance of the heater and cooler as functions of the flow of cracking residue are given in Fig 6. The resistance, of course, is considerably higher when the equipment is used as a cooler. Tests made to determine the decrease in the hydraulic resistance as the material heated up gave the results plotted in Fig 7. Fig 8 shows experimental curves of the resistance of straight sections of pipes as functions of the flow and also theoretical results calculated from Mikheyev's formula: it will be seen that the agreement is very good. Calculated and theoretical values of the coefficient of friction are compared graphically in Fig 9, indicating that 36% of the test results lie within 2% of the theoretical line. The heat-transfer rate of the heater can be much increased by using slightly super-heated steam under pressure. With this type of heat exchanger there is practically no risk of the fuel getting into the steam and so the condensate can be used for boiler feed.

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Comparative characteristics of the old and new types of oil heater are given in Table 3, which relates to operating data from a power station. The new heaters are cheaper, smaller and more efficient. At present, heaters of the new type are being installed in a number of power stations. There are 9 figures, 3 tables and 5 Soviet references.

ASSOCIATION: Groznenskiy Neftyanoy Institut (Groznyy Petroleum Institute)

Card 4/4

SOV/65-59-7-9/12

AUTHORS: Volkov, N.F., and Geller, Z.I.

TITLE: Some Features of Heat Exchange in the Fire-Boxes of Tubular Furnaces and the Distribution of Radiant Flux over the Baffles (Nekotoryye osobennosti teploobmena v topkakh trubchatykh pechey i raspredeleniye luchistykh potokov po ekranam)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 7, pp 38-47 (USSR)

ABSTRACT: After discussing some published work on radiant heat transfer in tubular furnaces the authors describe their own tests on three heating furnaces in the oil industry. These were a two-chamber, double-flow furnace (Fig 1) and type R-1 (Fig 2) and N-1 (Fig 3) single-chamber furnaces. The respective fire-box volumes were 404, 206 and 340 m³. Table 1 gives design details. The authors used VNIIT low-inertia two-sided radiometer-heat probes for measuring local fluxes and also compiled heat balances (Table 2). Thermal fluxes at a constant firing rate were found to be substantially influenced by numerous factors. The relation between radiant flux and total heat output per unit volume of firing box varies for furnaces of different designs. In the furnaces

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investigated, the distribution of flux between baffles was very uneven, even taking the average of several determinations; a six-fold ratio between maximum and minimum thermal stresses in baffles was observed in some tests. Aerodynamic factors caused a characteristic distribution of radiant flux (Fig 4) in one of the furnaces (Fig 1). Distribution of thermal flux over a roof baffle is shown in Fig 5. Tests were carried out with burners switched off at various points: greatest uniformity of incident radiant flux was obtained when the burner nearest the baffle was turned off (middle graph of Fig 6, which shows frequency curves for flux intensities). Deposits on the baffles and tubes caused further non-uniformity and led to scatter of experimental points on a graph of roof baffle thermal efficiency as a function of incident radiant flux. The outside deposit surfaces of tubes were found to be 300 - 350 °C hotter than the product being heated, which must greatly restrict the role of convective heat transfer; on the other hand, the authors conclude that the effect of baffling on radiation factors has been

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exaggerated (Refs 2, 5). To obtain greatest uniformity in the firing box a cascade control system should be used. For measuring the thermal load on a baffle the authors favour the direct measurement of incident radiation with a radioactive probe (Fig 8). An editorial note invites further contributions on the subject.

Card 3/3 There are 8 figures, 2 tables and 10 Soviet references.

ASHIKHMIN, V.I.; GELLER, Z.I.; SKOBEL'TSYN, Yu.A.

Temperature distribution and the average temperature of highly
viscous petroleum products in tanks. Izv.vys.ucheb.zav.; neft'
i gas 2 no.12:89-93 '59. (MIRA 13:5)

1. Groznenskiy neftyanoy institut.
(Petroleum products--Thermal properties)
(Tanks)

69182

10.4000A
8(6)

S/143/60/000/03/020/020
D047/D002

AUTHOR: Geller, Z.I. Candidate of Technical Sciences; Moroshkin, M.Ya., Engineer

TITLE: Hydraulic Characteristics of Centrifugal Nozzles 3

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1960, Nr 3, pp 143-150 (USSR)

ABSTRACT: This gives a method of calculating the flow coefficient of nozzles used in boiler installations in relation to the construction of the nozzle and experimental data on the angle of the jet. G.N. Abramovich and L.A. Klyachko had previously described the operation of nozzles, but the ones they dealt with differ from those used to spray fuel in boiler installations. To find a method for calculating the flow coefficient and obtain data on the angle of the jet, the author carried out experimental investigations into the hydraulic charac-

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Hydraulic Characteristics of Centrifugal Nozzles

teristics of nozzles, shown in Figures 3, 4 and 5, used in boiler installations. Figure 2 shows the circulation apparatus which was used. Fuel consumption was determined by a measuring tank. Pressure before the nozzles was measured by a reference manometer. Viscosity of the fuel was varied by heating. The results of the tests are given in the form of graphs and compared with those obtained by previous investigators. Figure 1 also shows graphs for the relationship of the flow coefficient to geometrical characteristics, calculated according to the methods of V.I. Skobelkin, and D.I. Taylor, and which hardly differ from the graph given in [Ref. 3]. Figures 3, 4 and 5, besides showing the flow coefficients, also give the experimental data on the angles of the jet, which differ from those obtained by calculation [Ref. 3]. There

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Hydraulic Characteristics of Centrifugal Nozzles

are 1 diagram, 5 graphs and 4 references, of which 1
is English and 3 Soviet.

ASSOCIATION: Groznenskiy ordena Trudovogo Krasnogo Znameni neftyanoy
institut (Groznyy Order of the Red Banner of Labour
Oil Institute) ✓

PRESENTED: October 23, 1959, by the Nauchno-tekhnicheskaya sekt-
siya turbomashin (Scientific and Technical Section of
Turbines)

Card 3/3

ABOVSKIY, A.P.; VCLKOV, N.F.; GELLER, Z.I.

Concerning the methodology for designing a concentric pipe-type
air preheater. Prom. energ. 15 no.7:48-50 J1 '60. (MIRA 15:1)
(Air preheaters)

GELLER, Z.I.; RASTORGUYEV, Yu.L.; SUDAKOV, P.Ye.

Device for balancing temperature fluctuations of a measurable medium
attached to the apparatus with differential transformer networks.
Khim.i tekhn. topl.i masel 6 no.12:33-37 D '61. (MIRA 15:1)

1. Groznenskiy neftyanoy institut.
(Petroleum refineries--Equipment and supplies)

S/124/61/000/012/032/038
D237/D304

AUTHORS: Geller, Z. I., and Rastorguyev, Yu. L.

TITLE: Continuous viscosity measurement in a fluid flow

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 12, 1961, 137, abstract 12B927 (Tr. Groznensk. neft. in-t, 1960, no. 24, 146-165)

TEXT: A detailed review is given of the existing methods of viscosity measurement of flowing liquids. All the existing continuous flow viscosimeters are divided into five classes: capillary, rotary, possessing the rotor, based on the falling sphere method and on the intensity of damping of elastic oscillation in a viscous fluid. For each class, a thermodynamic equation used for viscosity determination is given, as well as a description of the apparatus, working procedure, and applicability of various instruments with comparative assessment of

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Continuous viscosity...

S/124/61/000/012/032/038
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their accuracy and sensitivity. 52 references. [Abstracter's
note: Complete translation.] ✓

Card 2/2

S/081/61/000/022/058/076
B101/B147

11.0100

AUTHORS: Rastorguyev, Yu. L., Geller, Z. I.
TITLE: An equation for calculating the heat conduction of petroleum products
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 392, abstract 22M67 (Tr. Groznensk. neft. in-t, v. 3, no. 25, 1961, 85-96)

TEXT: A survey of theoretical and empirical equations for calculating the heat conduction of petroleum products is presented. A comparison of experimental and calculated data shows that the equations published in the literature lead to considerable errors when calculating the heat-conduction coefficient, λ , of petroleum products. Empirical equations obtained by generalizing the experimental data of various scientists are suggested for the determination of λ of petroleum products. These equations make possible λ determinations between -40 and $+250^{\circ}\text{C}$ with an error of 9.5-10.5% for petroleum products having $\gamma_4^{20} = 0.75-1.06$. The calculations proved that petroleum products are nonassociated liquids. The equation by Predvoditelev - Vargaftik describes the temperature dependence of the
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An equation for calculating ...

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heat conduction of petroleum products between -40 and 250°C correct to
3.5%. [Abstracter's note: Complete translation.]

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Card 2/2

GELLER, Z.I.; RASTORGUYEV, Yu.L.; SUDAKOV, P.Ye.

Organization and thermostatic regulation of streams for quality
analyzers. Izv. vys. ucheb. zav.; neft' i gaz 4 no.11:95-98 '61.
(MIRA 17:2)

1. Groznenskiy neftyanoy institut.

GELLER, Z.; VOLKOV, N.

"Heat power economy of the oil and gas industry" by L.R.Stotskii.
Reviewed by Z.Geller, N.Volkov. Neft.khoz. 39 no.8:71-72 Ag '61.
(MIRA 14:7)

(Petroleum industry) (Power engineering)
(Stotskii, L.R.)

ASHIKHMIN, V.I.; GELLER, Z.I.; SKOBEL'TSYN, Yu.A.

9

Viscous fluid discharge external cylindrical nozzles. Neft. khoz.
39 no.9:55-59 S '61. (MIRA 15:1)
(Hydrodynamics)

GELLER, Z.I., doktor tekhn.nauk, prof.; RASTORGYEV, Yu.L., kand.tekhn.nauk

Estimated equation of the heat conductivity of heavy petroleum
products. Teploenergetika '9 no.2:93-95 F '62. (MIRA 15:2)
(Petroleum products--Thermal properties) (Heat--Conduction)

GELLER, Z.I.; RASTORGUYEV, Yu.L.; SUDAKOV, P.Ye.; ANTIMIROV, M.Ya.;
Prinimali uchastiye: DIMITRIYENKO, O.M.; BOYANOVICH, V.A.

GNI automatic densitometer for liquids. Izv.vys.ucheb.zav.;
neft' i gaz 5 no.2:109-116 '62. (MIRA 15:7)

1. Groznenskiy neftyanoy institut.
(Densitometers)
(Petroleum products—Density)

GELLER, Z.I., doktor tekhn.nauk, prof.; ASHIKHMIN, V.I., inzh.

Measurement of consumption of fuel oil using a doubled diaphragm.
Teploenergetika 9 no.12:76-77 D '62. (MIRA 16:1)

1. Gornenskiy neftyanoy institut.
(Electric power plants) (Petroleum as fuel)

GELLER, Z.I.; RASTORGUYEV, Yu.L.; SUDAKOV, P.Ye.; RYKHERT, L.A.,
ved. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Controlling, measuring, and regulating apparatus used in
petroleum refining; instructions for laboratory work] Kontrol'-
no-izmeritel'nye i reguliruiushchie pribory v neftepereraba-
tyvaiushchei promyshlennosti; rukovodstvo k laboratornym rabo-
tam. Leningrad, Gostoptekhzidat, 1963. 250 p. (MIRA 16:11)
(Petroleum refineries--Equipment and supplies)
(Automatic control) (Measuring instruments)

GILLER, E.I.; SKOBELETSYN, Yu.A.

Viscous fluid flow from long and extremely short external
cylindrical nozzles. Izv. vya. ucheb. zav.; neft' i gaz
6 no.8:77-82 '63. (MIRA 17:6)

1. Groznenskiy neftyanoy institut.

GELLER, Z.I., doktor tekhn.nauk, prof.; ASHIKHMIN, V.I., inzh.

Effect of low-frequency oscillations on the purity of the heating surface of a rocking heater. Izv. vys. ucheb. zav.; energ. 6
no.10:130-132 0 '63. (MIRA 16:12)

1. Groznenskiy ordena Trudovogo Krasnogo Znameni neftyanoy institut. Predstavlena kafedroy teplotekhniki.

GELLER, Z.I., doktor tekhn.nauk, prof.; MOROSHKIN, M.Ya., kand.tekhn.nauk

Methodology for calculating and designing centrifugal jets for atomizing
fuel oils. Teploenergetika 10 no.4:87-91 Ap '63. (MIRA 16:3)
(Furnaces) (Boilers) (Oil burners)

GELLER, Z.I., doktor tekhn.nauk, prof.

Problem concerning the fuel oil economy of thermal electric power
plants. Teploenergetika 10 no.6:89-91 Je '63. (MIRA 16:7)
(Electric power plants) (Petroleum as fuel)

GELLER, Z.I., doktor tekhn. nauk, prof.; SKOBEL'TSYN, Yu.A., inzh.

Coefficient of expenditure of external cylindrical caps
in the flow of a viscous liquid. Teploenergetika 10 no.11:
72-74 N 163. (MIRA 17:1)

1. Groznenskiy neftyanoy institut.

DUBROVIN, Ye.Ye. GELLER, Z.I.; LEVENBUK, I.Kh.

Bibliography. Gaz. prom. 8 no.11:55-56 '64.

(MIRA 17:11)

GELLER, Z.I., doktor tekhn. nauk

All-Union conference on the exchange of experience in the use of
mazut in electric power plants. Elek. sta. 34 no.5:95 My '63.
(MIRA 16:7)

(Mazut) (Electric power plants)

GELLER, Z.I., doktor tekhn.nauk; ASHIKHMIN, V.I., inzh.

Effectiveness of the heat insulation of metal reservoirs for storing
mazut. Elek. sta. 34 no.11:24-27 N '63. (MIRA 17:2)

GELFER, Z.I.; LEVINSON, I.M.

Concerning the work of A.D. Al'tshul' "On the linear relation between
in the motion of viscous fluids". *Izv. Akad. Nauk SSSR Ser. Mekh.* 1963, no. 4, p. 163.
(MOS 1963)

GELLER, Z.I.; SKOBEL'TSIH, Yu.A.

Comparing the flow-rate factors of external cylindrical nozzles
and the openings in a thin wall. Neft.khoz. 43 no.4:60-62 Ap
'65. (MIRA 18:4)

GELLER, V...; KOBOLINTH, Yu... .

Flow of a real fluid from external cylindrical nozzles at low
Reynolds numbers. Naft.khoz. 41 no.8:62-65 Ag. '63.
(MIRA 17410)

L 10422-65 EWT(1)/EPA(n)-2/EPF(n)-2/ENG(v)/EPR/EWA(1) Pe-5/Pe-4/Pe-10/Pu-4
EED(dp)/AS(mp)-2/SSD/AEDC(a)/AFETR/ASD(d)/ASD(p)-3/ESD(t)/RAEM(t) Wd

ACCESSION NR: AP4047441

S/0170/64/000/009/0057/0063

AUTHORS: Antimirov, M. Ya.; Goller, Z. I.

TITLE: Solution of heat problem with moving boundaries expressed by $\beta\sqrt{t}$ B

SOURCE: Inzhenerno-fizicheskii zhurnal, no. 9, 1964, 57-63

TOPIC TAGS: heat conduction, error function, Maclaurin series, convergence test

ABSTRACT: The solution of heat conduction problems with movable boundaries expressed by the one-half power law, $\beta\sqrt{t}$, is discussed. Three different cases are considered: (1) heat conduction in finite as well as semi-infinite regions for a boundary condition of first kind, or

$$\left. \begin{aligned} u_1(0, t) &= \psi_1(t) \\ u_1(\beta\sqrt{t}, t) &= u_2(\beta\sqrt{t}, t) = \psi_2(t) \end{aligned} \right\} 0 < t < +\infty,$$

$$u_2(x, 0) = 0, \quad 0 < x < +\infty;$$

(2) heat conduction in finite region with boundary conditions of second kind

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L 10422-6"

ACCESSION NR: APh047441

$$\left. \begin{aligned} u(x, 0) &= 0, \quad 0 < x < \beta\sqrt{t}, \\ u(0, t) &= \psi_1(t) \\ \frac{\partial u(\beta\sqrt{t}, t)}{\partial x} &= \psi_2(t) \end{aligned} \right\}, \quad 0 < t < +\infty;$$

and (3) boundary conditions of the fourth kind

$$u_1(0, t) = \psi_1(t), \quad 0 < t < +\infty;$$

$$u_2(x, 0) = 0, \quad 0 < x < +\infty;$$

$$u_1(\beta\sqrt{t}, t) = u_2(\beta\sqrt{t}, t);$$

$$\lambda_1 \frac{\partial u_1(\beta\sqrt{t}, t)}{\partial x} = \lambda_2 \frac{\partial u_2(\beta\sqrt{t}, t)}{\partial x}$$

In all above cases ψ_1 and ψ_2 (arbitrary functions of time) are expanded in Maclaurin series, and the series solutions are given in terms of the complementary error functions

$$(4t)^n \operatorname{erfc} \frac{x}{2a_i \sqrt{t}}, \quad i = 1, 2$$

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L 10122-65

ACCESSION NR: AP4047441

Sufficient conditions for the uniform convergence of these series are established.
Orig. art. has: 38 equations.

ASSOCIATION: Neftyanoy institut G. Groznyy (Grozny Petroleum Institute)

SUBMITTED: 26Jun63

ENCL: 00

SUB CODE: ME, TD

NO REF SOV: 007

OTHER: 000

Card 3/3

GELLER, Z.I., doktor tekhn.nauk; KOVAL'SKIY, Ye.V., insh.

Use of the method of temperature waves for determining the thermal conductivity of steel. Izv. vys. ucheb. zav.; energ. 7 no.3; 111-113 Mr '64. (MIRA 17:4)

1. Groznenskiy neftyanoy institut. Predstavlena kafedroy teplotekhniki i gidravliki.

GELIER, Z.I.; SKOBEL'TSYN, Yu.A.; GOLOVCHENKO, V.A.

Flow rate factors of the discharge devices in tank cars.

Izv. vys. ucheb. zav.; neft' i gaz 7 no.3:95-97 '64.

(MIRA 17:6)

1. Groznenskiy neftyanoy institut.

GELLER, Z.I., doktor tekhn. nauk, prof.; ASHIKHMIN, V.I., inzh.;
 SHEVOHENKO, N.V., inzh.

Utilization of the existing pressure of centrifugal burners.
Teploenergetika 11 no.4:20-22 Ap '64. (MIRA 17:6)

1. Groznenskiy neftyanoy institut.

GORBANENKO, A.D., kand. tekhn. nauk; TSIRUL'NIKOV, L.M., inzh.;
KRASMOSELOV, G.K., inzh.; GELLER, Z.I., doktor tekhn. nauk;
LIPINSKIY, F.A., inzh.

Effectiveness of burning mazut. Elek. stat. 35 no.1:66-71
Ja '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut im Dzerzhinskogo (for Gorbanenko, TSirul'nikov).
2. Bashkirenergo (for Krasnoselov). 3. Groznenskiy neftyanoy institut (for Geller). 4. Novoufimskaya teploelektrotsentral' (for Lipinskiy).

ASHIKHMIN, V.I., inzh.; GELLER, Z.I., doktor tekhn. nauk

Methodology for designing duplex diaphragms for measuring
mazut expenditure. Elek. sta. 35 no.2:27-28 F '64.
(MIRA 17:6)

GELLER, Z.I.; SKOBEL'TSYN, Yu.A.

Disruption characteristics of external cylindrical nozzles.
Neft. khoz. 42 no.7:57-60 J1 '64. (MIRA 17:8)

SHCHERBININ, A.I.; GELLER, Z.I.

Automated lubricant tank of the V2 engine in drilling rigs.
Mash. i neft. obor. no.9:34-37 '64.

(MIRA 17:11)

1. Stavropol'skiy filial Groznenskogo neftyanogo nauchno-issledovatel'skogo instituta.

ANTIMIROV, M.Ya.; GELLER, Z.I.

Solution of thermodynamic problems when the boundary moves according
to the law $\phi \sqrt{t}$. Inzh.-fiz. zhur. 7 no.9:57-63 S '64.

(MIRA 17:12)

1. Neftyanoy institut, g. Groznyy.

GELLER, Z.I., doktor tekhn. nauk

Continuous measurement and control of the viscosity of
mazut. Elek sta. 35 no.10:13-15 0'64. (MIRA 17:12)

GELLER, Zinoviy Isayevich; RASTOVA, G.V., ved. red.

[Mazut as fuel] Mazut kak toplivo. Moskva, Nedra, 1965.
494 p. (MIRA 18:8)

GELLER, Z.I.; RASTORGNYEV, Yu.L.; GANIYEV, Yu.A.

Heat conductivity of selective solvents. Izv. vys. ucheb. zav.; neft' i
gaz 8 no.6:79-83 '65. (MIRA 18:7)

1. Groznenskiy neftyanoy institut.

GENEER, S. I., Doktor tekhn. nauk, pr. f. VOTI/EPH, Y. I., (1974-
sertant)

Study of the nature of motion of a drooping heat transfer front.
Teploenergetika 12 no.8:84-87 Ag '65. (MIRA 19:9)

1. Odesskiy tekhnologicheskiy institut pishchevoy i khimicheskoy
promyshlennosti.

GELLER, Z.I., doktor tekhn. nauk; ASHIKMIN, V.I., inzh.

Mazut heaters for large power plants operating on gas and mazut.
Elek. sta. 36 no.9:2-5 S '65. (MIRA 18:9)

ACC NR:

AI5028928

(A)

Monograph

UR/

Geller, Zinovy Isayevich

Mazut used as fuel (Mazut kak toplivo), Moscow, Izd-vo "Nedra", 1965, 494 p. illus., biblio. 5,000 copies printed. Combustion, petroleum, petroleum fuel.

TOPIC TAGS: fuel property, industrial furnace

PURPOSE AND CONTENT: This book describes the composition and properties of high-sulfur and high viscosity mazuts used in boiler and furnace fuels. Also presented are means of fuel supply, preparation of fuel for burning, and several questions on the technology of heating processes (diffusion, burning, radiant heat regime, contamination and corrosion of the heating surface) while burning mazuts in boiler furnaces and technological furnaces of petroleum processing factories. The book is recommended for technical engineers studying, planning or using thermal electric stations, production and heating boilers, heating and technological furnaces of industrial plants and petroleum industries. It can also be useful for students and aspirants specializing in thermal energy and associated fields.

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ACC NR:

AM5028928

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SUB CODE: 21,13 / SUBM DATE: 30Apr65 / ORIG REF: 071 / OTH REF: 085

Card 2/2.

GELLERI, E.

TECHNOLOGY

VILLAMOSSAG. (Magyar Elektrotechnikai Egyesulet) Budapest.

GELLERI, E. Economical lighting. p. ~~302~~²⁸¹:

Vol. 6, no. 7, July 1958.

Monthly List of East European Accession (E.E.A.) LC Vol. 8, No. 3
March 1959, Unclass.

GELLERI, Emil.; Turan, Gyorgy

Lighting of foundries. Villamosag 9 no.8:242-243 Ag '61.

1. Orszagos Villamosenergia Felugyelet.

GELLERI, Emil, dr., fizikus

Achievements obtained in the field of modernizing public lighting and some of its relevant questions. Villamosag 11 no. 12:368-373 D'63.

1. Országos Villamosenergia Felügyelet.

GELLERI, Emil, dr.; LAKATOS, György; BITTO, Janos, dr.

Economy of high-power neon tubes in the industry. Ipari
energia 5 no.4:73-79 Ap '64.

1. National Electric Power Control Board, Budapest (for Gelleri).
2. Research Institute of Telecommunication Engineering Industry,
Budapest (for Lakatos and Bitto).

GELLERI, S.

3

Gelléri, Sándor, Éghajlatkutatók expedíciója a Káspi-tó környéki síkságon. (Climatic expedition to the plains near the Caspian Sea.) *Tervezés és Technika*, Budapest, III(7):445-446, July 1952. DLC—Description of activities and preliminary results of an expedition organized by the Russian Academy of Science. Purpose of the enterprise was to investigate physical properties and effects of "sukhovet," the parching wind of the Caspian plains. To this end air and soil temperature, humidity, wind and evaporation measurements were made in the desert east of Stalingrad. Anemometer and electric thermometers were placed on high poles. Among other instruments the author describes the "spider thermometer" (an electric device developed for measuring soil surface temperature), the "thermometer sonde" (a metal rod provided with an electric meter for measuring soil temperature to a depth of 1 m) and a novel type evaporimeter. *Subject Headings:* 1. Expeditions 2. Dry winds 3. Micrometeorological instruments 4. Sukhovet 5. Kazakhstan, U.S.S.R.—G.T.

DC LL

GELLERMAN, D.S.; SHARAPOV, A.M.; POKOTILENKO, G.M.

"Internal diseases; textbook for medical schools" by A.G.Gukasian.
Reviewed by D.S.Gellerman, A.M.Sharapov, G.M.Pokotilenko. Fel'd.
i akush. 22 no.5:58-59 My '57. (MLRA 10:6)

1. Voroshikovgradskoye meditsinskoye uchilishche.
(MEDICINE) (GUKASIAN, A.G.)

GELLERMAN, D.S., prepodavatel' .; BOGACHEK, S.Ye., prepodavatel'.

"General care of the patient" by E. P. Sal'nikov, Fel'd i akush.
22 no.6:59 June '57. (MIRA 12:3)
(MEDICAL CARE)

AKIMOV, V.I.; ALMEYENKO, I.P.; ALENT'YEVA, K.A.; AMOSOV, H.H.; ARUTYUNOV, A.I.;
BRATJUS', V.D.; VASHCHENKO, I.D.; GELLERMAN, D.S.; GRISHIN, M.A.;
DANKHEVA, T.H.; DENISOVA, A.G.; DOLOVA, H.P.; IVANOV, H.A.; ISHCHENKO,
I.H.; KATS, V.A.; KOLOMIYCHENKO, M.I.; LAVRIK, S.S.; LIMAREV, A.A.;
NAZAROVA, H.G.; NOVACHENKO, H.P.; PETRUNYA, S.P.; PEKAKADZE, A.L.;
RUDENKO, F.A.; SERGIYEVSKIY, V.F.; TATSLIN, I.S.; TARTAKOVSKIY, B.S.;
CHIZHONOK, P.I.; SHALABALA, M.P.; SHUMADA, I.V.; SHUPIK, P.L.

Konstantin Konstantinovich Skvortsov; obituary. Nov.khir.arkh.
no.3:142-143 My-Je '59. (MIRA 12:10)
(SKVORTSOV, KONSTANTIN KONSTANTINOVICH, 1871-1959)

GELLERMAN, D.S.; TSYUKHNO, Z.I.

Coma in chronic adrenal gland insufficiency. Trudy Ukr.nauch.-
issl.inst.eksper.endok. 18:244-249 '61. (MIRA 16:1)
(COMA) (ADRENAL GLANDS—DISEASES) (ADDISON'S DISEASE)

GELLERMAN, Ya. M.
CA

110

Some data on the mechanism of mineral nutrition of plants by adsorbed ions. Ya. M. Gellerman (Timirязev Agr. Academy). *Compt. rend. acad. sci. U.R.S.S.* 55, 643-6(1947) (in English).--In expts. in which plants were grown in nutrient soils, with and without activated carbon, more Ca, P, and Cl were taken up in the presence of the carbon. It is suggested that accumulated org. substances around the roots, root secretions and intermediate products of their decompos. by bacteria, are adsorbed by the carbon; this frees the active adsorbing surface of the roots. The presence of materials in soils capable of adsorbing org. substances probably similarly improves the mineral nutrition of plants. Lawrence P. Miller

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

REGION: 11783.74

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APR 1948

C.A.
Gellerman, Y.M.

Effect of decomposition products of organic substances on root nutrition of plants. Ya. M. Gellerman, D. I. Doblady, Abad. Nauk S.S.S.R. 79, 807-81 (1960). Introduction of 1-20 millimoles/l. of AcOH, PrCO₂H, EtOH, or BuOH into the King nutrient mist led to the following results with oats plants, grown in sand culture. Plant growth was retarded, although the pH of the medium was unaltered. AcOH and PrCO₂H increased the amt. of labile Al; this may have affected availability of phosphate. Apparently EtOH and BuOH are oxidized by the soil bacteria to the acids which increases mobile Al content. These conclusions are verified by expts. with Krasnozem soils; both Al and FeO in labile form are increased by incubation of the soil with aq. solns. of glucose; the aq. ext. added to known phosphate soln. lowers the amt. of available phosphate. G. M. Kosolapoff -

USSR / Soil Science. Organic Fertilizers.

J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95753.

Author : Gellerman, Ya. M., Bedrna, Zoltan.
Inst : Moscow Agricultural Academy imeni K. A. Timiryazev.

Title : Influence of Sterilization of Composts on Their Content of Biologically Active Substances.

Orig Pub: Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1957, vyp. 29, 105-110.

Abstract: The influence was studied of sterilization of composts in various period of decomposition (0, 29, 44, 59, 74 and 88 days) on the growth and development of tomato sprouts raised in a sandy culture in a Knop nutrient mixture with the addition of 103 g of compost. The tests showed the depressing effect of sterilization, especially for

Card 1/2

GELLERMAN, Ya.M., kand. biolog. nauk, assistant; LITVINENKO, L.A., aspirant;
KRYAZEV, A.N., student

Stimulating tomato growth with repeated action of sublethal
temperatures on the roots. Izv. TSKHA no.1:38-48 '63.
(MIRA 16:7)

(Plants, Effect of soil temperature on)
(Tomatoes)

PROCESSES AND PROPERTIES INDEX

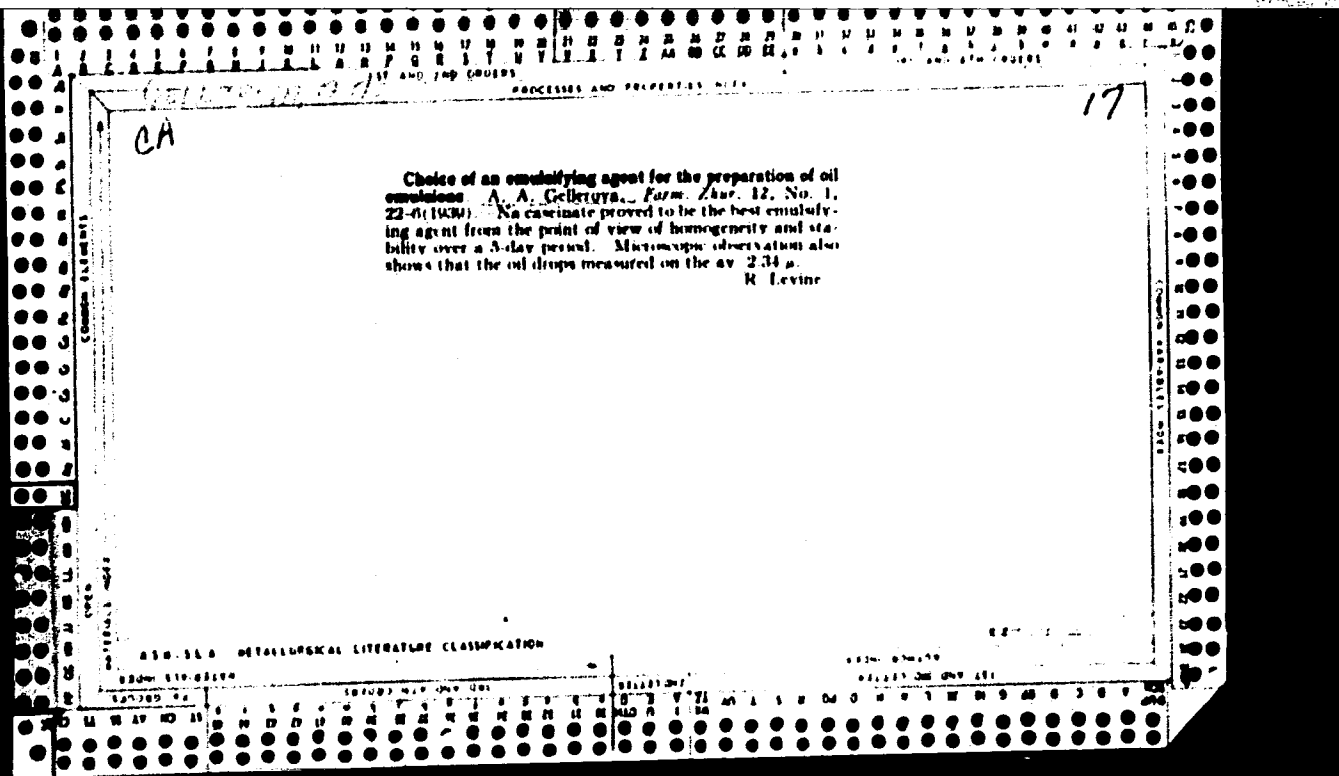
CA

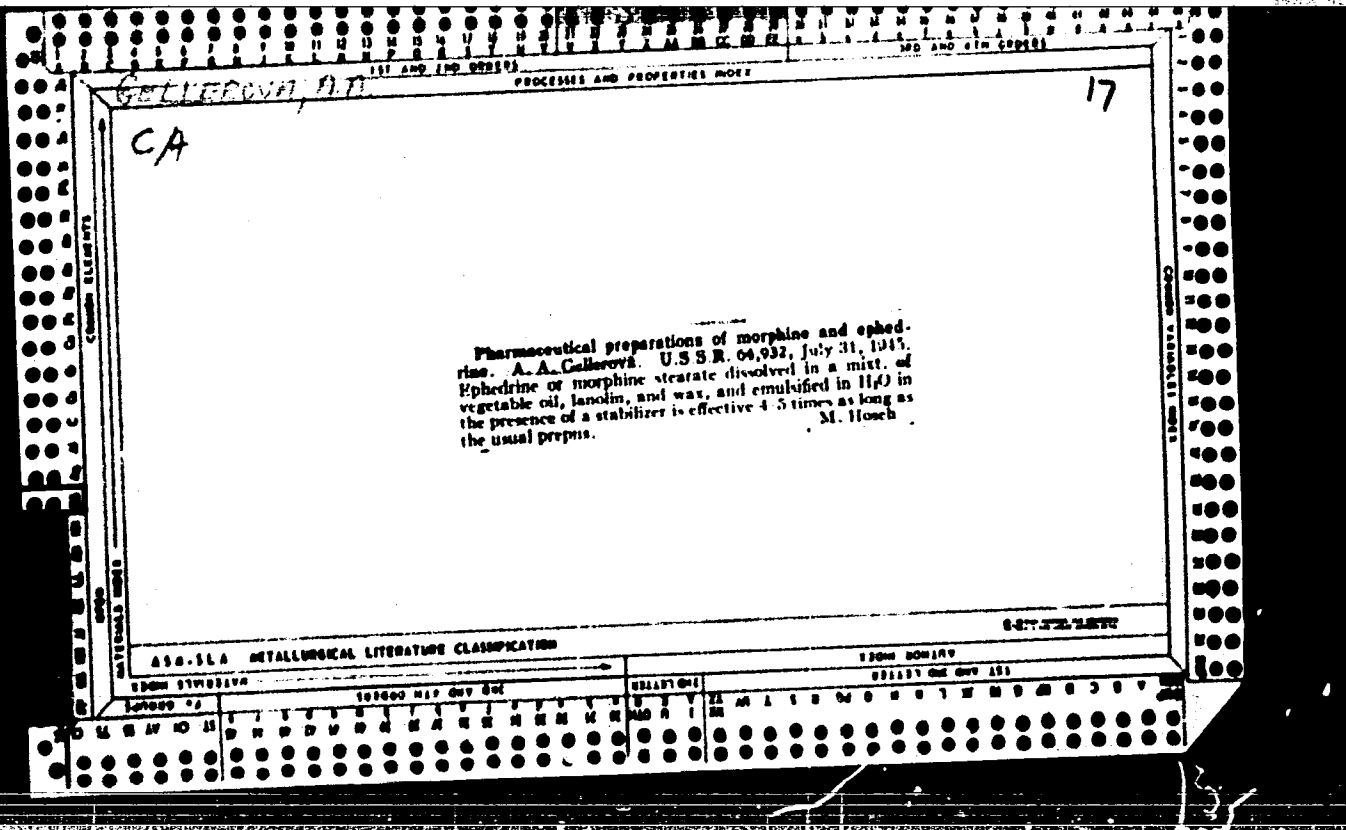
The use of preservatives in pharmacy. M. I. Shvartman and A. A. Gellerova. *Farmatsiya* 1939, No. 8, 3-7; *Khim. Referat. Zh.* 1960, No. 4, 90. Nipagin (methyl *p*-hydroxybenzoate) is recommended as a preservative for eye drops and for certain ointms. by parenteral application. W. R. Henn

17

ASO.31A METALLURGICAL LITERATURE CLASSIFICATION

100000 02	100000 0101 001 002	0011010101	11000 000100	011111 001 001 101
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GELLEHOVA, A.A.

Preparation of stable 5% solution of ascorbic acid in ampuls.
Aptech. delo, Moskva 2 no.2:33-38 Mar-Apr 1953. (GLML 24:3)

1. Of Khar'kov Scientific-Research Pharmaceutic Chemistry Institute
(Director -- Docent M. A. Angarskaya).

GELLERSHTEYN, S.G.

~~CONFIDENTIAL~~
Psychophysiological views of Lamarck's. Zh. obsh. biol., Moskva
18 no.1:23-40 Jan-Feb 1953. (CJML 24:2)

SECHENOV, I.M.; GELLERSHTYIN, S.G.; SMIRNOV, G.D.; KOSHTOYANTS, Kh.S.,
redaktor; MEDIN, Ye.I., redaktor; ASTAP'YEVA, G.A., tekhnicheskiy
redaktor.

[Collected works] Izbrannye proizvedeniya. Red. i posleslovie
Kh.S.Koshtoiantsa. Moskva. Izd-vo Akademii nauk SSSR. Vol.2.
[Physiology of the nervous system] Fiziologiya nervnoi sistemy.
1956. 942 p. (MLRA 9:5)

(NERVOUS SYSTEM)

ORLLERSHTEYN, S.G. (Moskva).

Problems in the psychology of work. Vop. psikhol. 3 no.4:8-24
Ил-Аг '57. (MLBA 10:9)
(Work)

GELLERSHTAYN, Solomon Grigor'yevich,; KOGAN, V.M., red.; ROMANOVA, Z.A., tekhn. red.

[Time sense and motor reaction speed] Chuvstvo vremeni i skorost'
dvigatel'noi reaktsii. Moskva, Gos. izd-vo med. lit-ry, 1958. 147 p.
(MIRA 11:12)

(TIME PERCEPTION)
(MOVEMENT, PSYCHOLOGY OF)

GELLERSHTEYN, S.G.; TSFASMAN, I.L.; BEZIN, F.B., red.

[Principles and methods of occupational therapy for mental patients] Printsipy i metody trudovoi terapii psikhicheski bol'nykh. Moskva, Meditsina, 1964. 163 p.

(MIRA 17:5)

BULANOV, Vladimir Antonovich, zhurnal'ist; GELLERSHTEYN, V.I., red.;
FEDOROVA, V.V., tekhn.red.

[Sun over the tundra; 1,000 kilometers on dogs along the shore
of the Arctic Ocean] Solntse nad tundroi; 1,000 kilometrov na
sobakakh po poberezh'iu Ledovitogo okeana. Magdan, Magdanskoe
knizhnoe izd-vo, 1959. 87 p. (MIRA 14:1)

1. Otvetsvennyy sekretar' "Magdanskoy pravdy" (for Bulanov).
(Arctic Ocean region--Description and travel)

URIN, Viktor Arkad'yevich; GELLERSHTEYN, V.I., red.; FEDOROVA, V.V., tekhn.
red.

[Along the Kolyma route to the cold pole] Po kolymskoi trasse -
k Poliusu kholoda. Magadan, Magadanskoe knizhnoe izd-vo, 1959.
225 p. (MIRA 13:9)
(Kolyma Valley--Description and travel)

KANDOR, Iosif Solomonovich, prof., doktor biolog.nauk; KHLIPALOV, M.P.,
spetsred.; ~~OMELNERSHTAYN~~, V.I., red.; GUSSAKOVSKAYA, O.N., red.;
FEDOROVA, V.V., tekhn.red.

[Man in the Far North] Chelovek na Severe. Magadan, Magadanakoe
knishnoe izd-vo, 1960. 55 p. (MIRA 14:4)

1. Institut obshchey i kommunal'noy gigiyeny AN SSSR (for Kandror).
(RUSSIA, NORTHERN--MAN--INFLUENCE OF CLIMATE)

ZULANOV, Vladimir Antonovich; GELLERSHTEYN, V.I., red.; FEDOROVA, V.V.,
tekhn. red.

[Day begins here; sketches] Zdes' nachinaetsia den'; ocherki.
Magadan, Magadanskoe knizhnoe izd-vo, 1961. 112 p.

(MIRA 15:4)

(Chukchi National Area--Description and travel)

USTINOV, Dmitriy Yefimovich; GAVRILOV, Viktor Gerasimovich;
GELLERSHTEYN, V.I., red.

[Trench method for peat winning in the winter using explosives] Transheinyi sposob vskryshi torfov v zimniy period s primeneniem vzryvchatykh veshchestv. Magadan, Magadanskoe knizhnoe izd-vo, 1964. 21 p. (MIRA 18:3)

GELLERT, A.

SAVAY, G.; CSILLIK, B.; GELLERT, A.

Data on chromophil cells of the spinal ganglia. Kiserlates Orvostud.
3 no. 5:329-333 1951. (CIML 21:3)

1. Doctors. 2. Institute of Anatomy, Histology and Embryology,
Szeged Medical University.

GELLERT, A.

Savay, Gy.; Csillik, B.; Gellert, A.

"The Experimental Effect of Cold on the Rise of Blood Pressure." p. 64. (Acta Physiologica. Supplement to v. 4. 1953, Budapest)

SO: Monthly List of East European Accessions. Vol 3 No 6 Library of Congress, Jun 54, Uncl.

HUNGARY/Human and Animal Morphology (Normal and Pathological). Lymphatic System.

8-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74358

Author : Kozma, Marta; Gallert, Albert

Inst : -

Title : Microscopic Data on the Structure of Lymph Vessels of Muscles.

Orig Pub: Kisori. orvostud., 1957, 9, No 2, 147-150

Abstract: Lymph vessels (LV) of muscles of the hind extremities of rats, rabbits and dogs were studied; to one group of the animals, an interstitial injection of various tinted substances was given; in the rest, blockage was caused by tying up the trunk of the femoral vein and adjacent LV. The presence of

Card : 1/2

HUNGARY/Human and Animal Morphology (Normal and Pathological). Lymphatic System.

S-7

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74358

LV in the internal perimysium in the immediate vicinity of blood vessels was established. Between muscle fibers LV were not found. In the external perimysium LV with large lumens were found; superficially located large LV are formed from these, and they drain off the lymph to regional lymph nodes. -- A. N. Ivanov

Card : 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514630003-9
logical). Methods and Apparatus.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79003.

Author : Gellert, Albert.

Inst : Not given.

Title : The Possibility of Paraffin Impregnation of Brain Preparations.

Orig Pub: Kiserl. orvostud., 1957, 9, No 2, 221-224.

Abstract: A method of soaking the whole brain or its separate parts with paraffin is proposed. The brain is dehydrated with alcohol or acetone, and put into a mixture of benzene or turpentine, and then into paraffin. For the best indication of the division between the grey and white matter, it is recommended that the brain be first cooled to a temperature of 10°.

Card 1/1

HUNGARY / Human and Animal Morphology - Lymphatic System. 8

Abs Jour : Ref. Zhur. - Biol., No. 2, 1958, No. 101499

Author : Gellert, A.; Foberai, M.; Nagy, I.; Nagy, S.;
Lippai, J.

Inst : -

Title : Comparative Histologic Studies of the Structure
of the Walls of the Lymph Vessels. I. Histologic
Structure of the Walls of the Thoracic Duct.

Orig Pub : Kiserl. orvostud., 1957, Vol. 9, No. 3, 309-315

Abstract : Studies were made of the structure of the wall of
the thoracic duct (TD) of man and of various ani-
mals. Depending upon the peculiarities of struc-
ture of the wall of the TD, three types could be
distinguished: a muscular-collagenous-fibrous
(man, sheep); a muscular-elastic-fibrous (ox, pig);
a TD poor in muscular fibers (dog, cat, rabbit).

Card 1/2

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HUNGARY / Human and Animal Morphology - Lymphatic System. 8

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101499

The enclosure of the TD by 3 membranes is possible only with the first and second types. The wall of the TD thins out in the proximal direction, chiefly because of the reduction in the number of muscular elements; in the contrary direction, there is an especially marked increase in the thickness of the circular musculature. -- A. V. Kuz'mina-Prigradova

Card 2/2

KOZMA, Marta; GELLERT, Albert

Nerve cells and microscopic ganglia of the glossopharyngeal nerve.
Kiserletes orvostud. 10 no.2-3:183-185 Apr-June 58.

1. Szegedi Orvostudományi Egyetem Bonctani, valamint Szövet- és Fejod-
estani Intézete.

(NERVES, GLOSSOPHARYNGEAL, anat. & histol.
nerve cells & microscopic ganglia, histol. (Hun))

OBLLERT, Albert; KOZMA, Marta; POBERAI, Maria; LIPPAL, Jozsef

Data on the problem of autonomic innervation of the smooth muscle. Kiserletes Orvostudomány 12 no.1:35-39 F '60.

1. Szegedi Orvostudományi Egyetem Bonctani, valamint Szolet es Fejlodestani Intezete.
(MUSCLES innervation)

POBERAI, Maria; GELLERT, Albert; NAGY, Istvan; LIPPAI, Jozsef; KOZMA, Marta;
NAGY, Sandor

Comparative studies on the tissue structure of the walls of the
peripheral lymph vessels. Kiserletes orvostud. 13 no.2:154-159
My '61.

1. Szegedi Orvostudományi Egyetem Bonctani, valamint Szövet- es
Fejlődéstan Intézete.

(LYMPHATIC SYSTEM anat. & histol.)

POSERAI, Maria; GELLERT, A.; NAGY, I.; LIPPAI, J., KOZMA, Marta; NAGY, S.

Comparative histology of the structure of the wall of lymphatic vessels.
III. Histological structure of the wall of peripheral lymphatic vessels.
Acta Morph. Acad. Sci. Hung. 11 no.2:229-238 '62.

1. Institut für Anatomie, Histologie und Embryologie der Medizinischen
Universität, Szeged (Vorstand: Prof. A. Gellert)

(LYMPHATIC SYSTEM anat & histol)

FOLDI, K., dr.; KUKAN, F., dr.; SZEGHY, G., dr.; GELLERT, A. dr.; KOZFA, H., dr.; POSENAI, K., dr.; ZOLTAN, O.T., dr.; VARGA, L., dr.

Anatomical, histological and experimental data on the fluid circulation of the eye. Orv. hetil. 103 no.38:1789-1792 23 S '62.

1. Sz. Med. Orvostudományi Egysen, II. Orv. Klinikai, Szemklinika és Anatómiai Intézet.

(EYE) (EYE PROTEINS) (LYMPHATIC SYSTEM)

Közlemények, Vol. XVII, no. 38, 1962, pp. 1789-1792

Abstract: [Authors' Hungarian summary] By the method of experimental lymphatic edema produced by "self-injection with lymphatic fluid," the lymphatic vessels in the substance of the dura mater at the skull base and their connection with the cervical lymphatic vessels were demonstrated. In contrast to the uncertainties and inadequacies found in the literature, this study provides a morphological confirmation of the lymphatics in the area of the dorsal sulcus and also explains the severe morphological and functional changes seen after radical ligation of the cervical lymphatic ducts. All 9 references are Western. [Manuscript received 13 Jul. 65.]

GILBERT, R. : ROBERT, G.

Some theoretical and practical problems of statistical observation in planning finished production. p. 30.

Vol 9, no. 10, Oct. 1955. TORBTERELES. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

GELLERT, ENDRE.

A radiovevokes ulek. 2. atolq. bov. kiad. Budapest, Muszaki Konyvkiado,
1955. 316 p. [The radio receiver. 2d rev. and enl. ed. illus., diags.
(part fold.)]

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sept, 1957. Uncl.

SECRET, [redacted]
SURNAME, Given Names

Country: Hungary

Academic Degrees: Dr.

Affiliation: [not given]

Source: Budapest, Orvoskepzes, Vol 36, No 3, June 61, pp 171-182

Data: "Rehabilitation in Traumatology."

GPO 981643 173

PROCESSES AND PROPERTIES

10

CA

Tartaric acid and its salts. Kde L. Gellert. Hung 133,000, Jan. 15, 1948. Grape marc ext. or other raw materials are exactly neutralized with Ca(OH)₂ or pound chalk, after standing 24 hrs. the soln. of neutral K tartrate is sep. and filtered, the ppt. mixed with water, decomp. by H₂SO₄, and the soln. of tartaric acid used for pptn. of K acid tartrates. Hung 133,000. K acid tartrate 2 mols. or 2 mols. of neutral K tartrate are treated with 2 mols. CaCO₃ or 2 mols. Ca(OH)₂ at increased temps. Istvan Fuzaly

METALLURGICAL LITERATURE CLASSIFICATION

GALFI, Janos; LIPTAY, Istvan; STEGNA, Lajos; GELLERT, Ferenc; KOVACS, Judit;
SEDY, Lorand

Pressure gauge for seismic surveying. Geofiz kozl 3 no.1/11:143-156
'54.

GALFI, Janos; GELLERT, Ferenc; SEDY, Lorand

Formation of pressure waves by air blasts. Geofiz kozl 4 no.2:41-44
'55.

GADASIN, M.M.; GELBERT, I.V.; LYCHAGIN, Ya.Ya.; ROZA, L.I.; BURSHTEYN, I.Ye., laureat Stalinskoy premii; kandidat tekhnicheskikh nauk, retsenzent; KOTLYAROV, M.Z., inzhener, retsenzent; MARTYNOV, N.P., inzhener, redaktor; POPOVA, S.M., tekhnicheskij redaktor.

[Files; design and manufacture] Napil'niki; konstruktsiia i izgotovlenie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 236 p. (Files and rasps) (MLRA 8:2)

S/193/60/000/008/016/018
A004/A001

AUTHOR: Gellert, I. V.

TITLE: The Introduction of the Gang Machining of Parts at the Heavy Machinery Plants of the Mosoblsovnrarkhoz

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 8, pp.71-72

TEXT: The Tekhniko-ekonomicheskii sovet Moskovskogo oblastnogo sovnarkhoza (Technical and Economic Council of the Moscow Oblast' Sovnarkhoz) discussed the practice of introducing the gang machining of heavy machinery parts at the Kolomenskiy zavod tyazhelogo stankostroyeniya (Kolomna Plant of Heavy Machine Tool Construction) and at the Elektrostal'skiy zavod tyazhelogo mashinostroyeniya (Elektrostal' Plant of Heavy Machinery). The production of the Kolomna Plant is characterized by the variety of machine tools and presses being manufactured and the great number of parts being used for every machine, i. e., more than 2,000 items per machine. 400 standardized technological processes have been developed for 40,000 items, seven specialized sections for the gang machining of parts in a technologically closed production cycle have been established. As a result of these measures, labor productivity increased on an average by 20-22%, while the

Card 1/2

S/193/60/000/008/016/018
A004/A001

The Introduction of the Gang Machining of Parts at the Heavy Machinery Plants of
the Mosoblsovnrarkhoz ✓

volume of manual and transport operations was reduced by 2-2.5 times. At these sections, multipurpose assembly fixtures and jigs are used which yield annual savings of 900,000 rubles. The total labor consumption for the manufacture of each machine was cut by 4,000 norm-hours. At the Elektrostal' Plant of Heavy Machinery, where individual production features prevail, machine parts and units have been unified and standardized, technological processes typefied, and, based on these preparations, sections for the gang machining of parts have been established. As a result of these measures, labor consumption was reduced by 30%.

Card 2/2