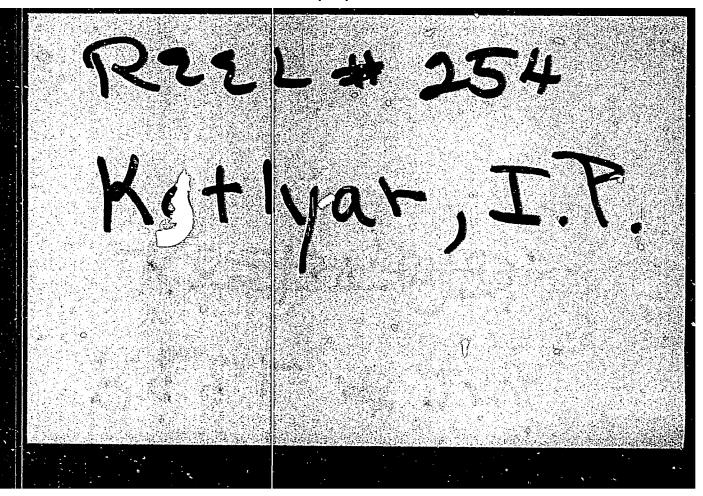


APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410001-0"



CIA-RDP86-00513R000825410001-0

SIDOROV, A.N.; KOTLYAR, I.P.

Infrared spectra of phthalocyanines. Part 1. Effect of the crystalline structure and of the central atom of a metal on a phthalo yanine molecule in the solid state. Opt. i spektr. 11 no.2:175-184 Ag '61. (MIRA 14:8)

(Infrared ravs)

(Infrared ravs) (Phthalocyanine—Spectra)

L 5422-66

ACCESSION NR: AP5019774

听/0051/65/019/002/0310/0311 535.853.24-15

AUTHOR: Dmitriyevskiy, O. D.; Kotlyar, I. P.

TITIE: An ultrafast infrared spectrometer in

SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 310-311

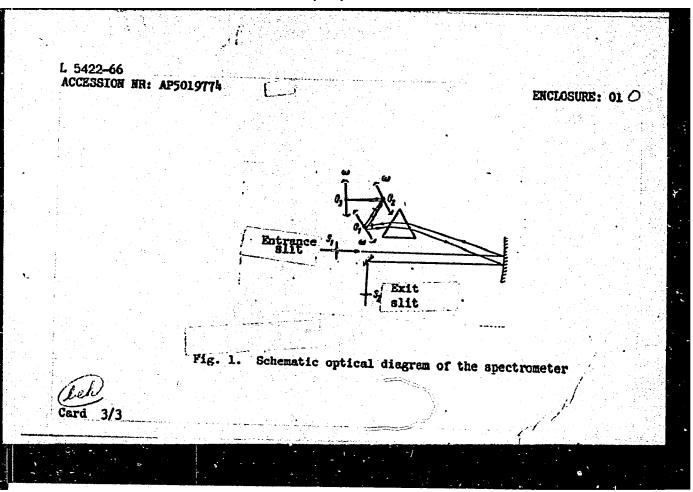
TOPIC TAGS: IR spectrometer, IR radiation, radiation detector, monochromator

ABSTRACT: The authors point out first that development of fast infrared spectrometers was hampered in the past by the lack of inertialess detectors. In view of the recent availability of a number of quick-response detectors with time constants  $10^{-6}$ — $10^{-8}$  sec for a very broad portion of the spectrum, they constructed a model of an ultrafast spectrometer of original design (Inventor's Certificate No. 625090/26, 13 April 1959, issued to 0. D. Dmitriyevskiy), with three counterrotating mirrors to scan the spectrum. The optical diagram of the monochromator used is shown in Fig. 1 of the Enclosure. The spectrum scanning time in such a monochromator is 5 times less than in a similar monochromator with a single mirror. A quick-response detector is used. With the mirrors rotating at ~3000 rpm, a 1-5  $\mu$  interval of the spectrum can be registered in 40  $\mu$ sec. A sample spectrum is shown. The spectrometer was used to obtain a series of measurements of triplet-triplet absorption in dilute dye solutions subjected to pulsed photoexcitation.

Card 1/3

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## KOTLYAR, I. V.

"Treatment of Patients of Chronic Arthritis of Various Origin by Means of Inductive Thermo-electrophoresis"

report submitted at the Republic Session on Traumatology and Orthopedics, Kishinev, 9-10 January, 1961

So: Zhravookhranenive, Kishinev, No. 2, March-April 1961, pages 61-64

KOTLYAR, I.V. USER/Engineering - Turbines Gard 1/1 : Pub. 128 - 5/38 Authors : Kotlyar, I. V. Contribution to the problem of determining the throughput through Title a series of turbine stages Periodical: Vest. mash. 9, 25-27, Sep 1954 ! The author claims that the Customary formula for the variation of Abstract throughput with input temper ture and pressure, based on dimentional similarity, yields excessive errors in a group of few stages when the pressure drop through the stages is large. An alternating formula based on simultaneous solution of the continuity and energy equations can be made practical by the introduction of a throughput parameter given in a set of graphs. Four references: 3 USSR; 1 German (1924-1948). Table; graphs. Institution: Submitted

# KOTLYAR, I. V.

"Questions on the Operation of Gas Turbine Installations Under Variable Conditions." Cand Tech Sci. Khar'kev Polytechnic Inst imeni V. I. Lenin, Min Higher Education USSR, Khar'kev, 1955. (KL, No. 13, Mar. 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

KOTLYAR, I,V.

AID P - 2063

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 5/29

Author : Kotlyar, I. V., Eng.

Title : Approximate method of determining the steam characteristics

of a turbine

Periodical: Elek. sta., 4, 20-23, Ap 1955

Abstract : A mathematical analysis for determining the steam

characteristics for a turbine of given design and dimensions is presented. The calculations cover the

design of impulse turbines and determines pressures acting on their blades and developed in various turbine stages.

The article contains also some data on reactive turbines.

Three diagrams.

Institution: None

Submitted : No date

8(6), 14(6)

507/112-59-4-6592

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 29 (USSR) AUTHOR: Shnee, Ya. I., and Kotlyar, I. V.

TITLE: On the Selection of an Efficient Legout for a Locomotive Gar-Turkine Plant

PERIODICAL: Tr. Khar'kovsk. politekh. in-ta, 1957, Vol.24, pp 169-189

ABSTRACT: Thermal economy of a gas-turbine locomotive is still considerably behind that of a diesel-electric locomotive; for this reason, selection of the most rational scheme for a gas-turbine plant is the most important objective. An analysis of a gas-turbine plant includes these two problems:

(1) investigating individual components; (2) effect of their places in the layout. The influence of a number of stages upon internal turbine efficiency is demonstrated in the article. The influence of the number of stages upon the overall efficiency for single-shaft and two-shaft schemes with optimum pressure is determined. The two-shaft unit with a small number of stages

Card 1/2

SOY/112-59-4-6592

On the Selection of an Efficient Layout for a Lecomobine Gas-Turbine Plant proves to be more economical than a multistage single-shaft unit (only schemes without intermediate cooling are considered). A comparison of thermal economy of schemes having different degrees of regeneration under partial loads is submitted. The thermal economy of a unit can be raised by using a two-shaft compressor with higher compression. At moderate compressions, a two-shaft single-compressor scheme with an adjustable-blade turbine is the most economical.

V.S.P.

Card 2/2

8(6), 14(6)

SOV/112-59-4-658?

Translation from: Referativnyy zhurnal. Elektrotekhaika, 1959, Nr 4, p 29 (USSR)

AUTHOR: Kothyag, I. V.

TITLE: New Thermal Diagram for Designing Cas Turbines

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 34, pp 199-205

ABSTRACT: The diagram suggested in the article is constructed in the tH coordinates and can be used for a gas mixture of any composition. A net of curves in the diagram presents the dependence of the adiabatic drop H on the higher (or lower) temperature of the process with a construct specified pressure ratio. Specific gas volumes and final temperatures are determined analytically. Principles underlying the diagram are described, and an example of using it is cited. The accuracy of thermal calculation provided by the new diagram is much higher than that poscible with existing diagrams.

V.S.P.

Card 1/1

SOV/24-58-4-10/39 AUTHORS: Kotlyar, I.V. and Shnee, Ya.I.

(Khar'kov)

TITLE: The Choice of a Rational Squeme for a Marine Gas

Turbine Installation of La ge Power, Capable of Operating at All Regimes ( bor ratsional noy skhemy vserezhimnoy korabel'noy gazoturbinnoy ustanovki

bol'shoy moshchnosti)

PERJODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh

Nauk, 1958, Nr 4, pp 73 - 77 (USSR)

ABSTRACT: The characteristic feature of the gas turbine is its

high specific fuel consumption. Hence for high powers, it is convenient to have the installation in the form of a single unit guaranteeing both small specific fuel consumption and a high efficiency over a wide range of loads. The requirement of a reduction in specific fuel consumption is also important from the point of view of the necessity of reducing the weight of the installation in every way possible. This is illustrated by the consideration of two

geometrically similar installations with the same gas

parameters, local velocities, stresses and efficiency. Card1/2

The Choice of a Rational Scheme for a Marine Gas Turbine Installation of Large Power, Capable of Operating at All Regimes

Several rational schemes for gas turbines are considered, each of which has one or two stages and is a direct flow unit where possible. From an analysis of the curves of comparison, a scheme involving secondary heating of the gas is seen to be the best.

There are 7 figures and 3 Soviet references.

SUBMITTED: April 8, 1957

Card 2/2

32019 S/587/60/029/002/007/008 D203/D302

26.2120

AUTHOR: Kotlyar, I. V.

TITLE: On the specific weight of a gas turbine installation

SOURCE: Khar'kov. Politekhnicheskiy institut. Trudy. v. 29, no. 2. Parovyye i gazovyye turbiny, 195-198

TEXT: It is often required to know the change in the specific weight which would result from the redesign of the unit for a different power. This is particularly important in the case of transport engines. Increased power of large steam turbines is achieved by increasing the size of their low pressure stages and the length of the blades is the only change in the high pressure parts. The external dimensions do not change materially and the specific weight is reduced. The economy in the specific weight is even greater for small steam turbines, in which the power is increased solely by increasing the blade length. The situation is different in the case of gas turbines whose capacity is limited by the strength card 1/3

32019 S/587/60/029/002/007/008 D203/D302

On the specific weight ...

due to the high temperature at inlet and a relatively low ratio of specific volumes of gas. In the geometrical scaling of a turbine with optimum (for its size) characteristics, the laws of similarity can be used. If the gas conditions are the same and the effects of Reynolds number car be neglected, the stresses and the efficiency will be identical. If the model turbine has minimum weight, the weight of the scaled turbine will also be a minimum. In changing the power from N $_{\rm O}$  to N the scale factor is 1. The peripheral velocities will be the same and the ratio of speeds will be

$$\frac{\mathbf{n}}{\mathbf{n}_{o}} = \left(\frac{\mathbf{N}_{o}}{\mathbf{N}}\right) \quad \frac{1}{2} \tag{3}$$

The specific weight is given by

Card 2/3

On the specific weight ...

32019 S/587/60/029/002/007/008 D203/D302

$$\frac{\mathbf{q}}{\mathbf{q}_{o}} = \frac{\mathbf{QN}_{o}}{\mathbf{Q}_{o}\mathbf{N}} = \left(\frac{\mathbf{N}}{\mathbf{N}_{o}}\right)^{\frac{1}{2}} \tag{5}$$

However, this does not apply to turbines of low power. Sometimes the specific weight of a large turbine can be reduced by 10 to 20% by adding one stage of compression and combustion. The change of specific weight should not be described by a strictly mathematical formula. This article is merely an attempt to show the tendency of the specific weight to increase with the turbine power. There are 3 Soviet-bloc references.

Card 3/3

KOTLYAR, I.V.

Galvanic inductothermy as a new method in physical therapy. Zdravookhranenie 2 no.1:58-60 Ja-F '59 MIRA 12:7)

l. Iz fizioterapevticheskogo otdeleniya Respublikanskoy klinicheskoy bol'nitsy (glavnyy vrach - Yu.B. Kasperskiy)
(ELECTROTHERAPEUTICS)

181,920

26.2120

**S/0**96/60/000/011/004/018 E194/E184

AUTHOR:

Kotlyar, I.V. (Candidate of Technical Sciences)

TITLE:

The Influence of Atmospheric Air Conditions on the

Operation of a Gas Turbine Set

PERIODICAL: Teploenergetika, 1960 No 11, pp 41-45

TEXT: Reduction of the ambient air temperature can increase the efficiency and output of a gas turbine; pressure changes are less important in practice unless the turbine operates at very high The influence of air temperature change on the operation of a gas turbine depends on whether the speed of the power turbine is independent of the compressor speed or not. If the main turbine is separate from the compressor the influence of air temperature changes depends very little on the type of load driven, whilst when both turbine and compressor are on the same shaft the influence of air temperature depends on whether the load is taken at constant speed or whether the speed changes with load according to some law. Complex parameters of similarity are given for a gas turbine in which the power turbine is independent of the compressor, and these are used to construct universal characteristics plotted in Fig 2, for the two-shaft single Card 1/6

S/096/60/000/011/004/018 E194/E184

The Influence of Atmospheric Air Conditions on the Operation of a Gas Turbine Set

compressor circuit with low pressure power turbine corresponding to the circuit of Fig 1.1. The gas turbine characteristics shown in Fig 2 may be used for any atmospheric air conditions. If there is intermediate cooling or heating the equation of similarity can only give an approximate solution, but the procedure required to obtain an accurate solution is explained. It follows from the conditions of similarity that for a gas turbine with independent power turbine increase in the air temperature should also increase the gas temperature, other things being equal. Graphs showing changes in gas temperature, efficiency and speed as function of air temperature are plotted in Fig 3, from which it will be seen that with a given load the efficiency varies little with the atmospheric air temperature. However, in practice, it is usually necessary to limit the gas temperature to its value at rated load. For the circuit of Fig 1.1, if the air temperature is reduced from 15 to -25 °C and the rated gas temperature of 750 °C is maintained the output increases by a factor of 1.4 whilst the efficiency rises from 20.4 to 22.9%. On the other hand, if the air Card 2/6

\$/096/60/000/011/004/018 E194/E184

The Influence of Atmospheric Air Conditions on the Operation of a Gas Turbine Set

temperature is raised to +35 °C maintaining the gas temperature constant, the power is reduced to 0.8 of the rated value and the efficiency to 18.7%. The influence of having reduced gas temperature at partial load is then considered and it is shown to be advantageous if considerable variations in air temperature are The case when the power turbine and compressor are on the likely. same shart is then considered. In this case universal characteristics such as are shown in Fig 2 cannot be constructed because any change in the shaft speeds alters the equilibrium parameters of the As the air temperature is changed the constant speed lines on the compressor characteristics are displaced which alters the gas temperature and all other parameters. The case is then considered of a turbine of this type driving a constant speed alternator. It is shown that in addition to the change in gas temperature which is approximately proportional to the change is air temperature there is an additional change in gas temperature corresponding to the alteration in compressor characteristics with the new air temperature. Values of this additional change are Card 3/6

\$/096/60/000/011/004/018 E194/E184

The Influence of Atmospheric Air Conditions on the Operation of a Gas Turbine Set

Fig 4 shows characteristics for the circuits of Figs 1.3, given. 1.4 and 1.5, for various values of air temperature. These curves show that when the turbine and compressor are on the same shaft the relative change in gas temperature for a given load is much greater than the relative change in air temperature, so that efficiency rises with the air temperature and vice versa. Over-heating of the turbine in hot weather may be prevented by limiting the load and additional load can be taken in cold weather unless other The disadvantages in certain cases of factors prevent this. having only slight decrease in gas temperature at partial loading Marked changes in gas temperature with the change are discussed. in air temperature for a given load may be avoided in several ways; for example, by by-passing gas or air, by altering the turbine nozzle arrangements or by having variable guide vanes on the If such guide vanes can be used the advantages compressor intake. of having relatively little change of gas temperature at partial In the case of turbines for which the gas loads are considerable. temperature change at partial load is considerable, the use of Card 4/6

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The Influence of Atmospheric Air Conditions on the Operation of a Gas Turbine Set

compressor guide vanes gives relatively little advantage. Figs 5 and 6 show graphs of the operating lines of compressors of circuits Figs 1.3 and 1.4 with various air temperatures. It will be seen from Fig 6 that as the air temperature is increased the working line of the low pressure compressor of circuit 1.4 is of an unfavourable shape, which can be overcome by using variable guide vanes at the compressor inlet. If the turbine with compressor on the same shaft alters in speed with the load, the effect of air temperature at rated load is the same as before because, of course, the full load speed is constant. However, the effect of air temperature at partial loads depends on the relationships between power and speed. On the basis of considerations of this kind it is often possible to construct approximate characteristics of such turbines with change in air If gas reheat is used as the air temperature changes temperature. there is a change in the temperature ratio at the inlet to the combustion chamber and if the ratio of fuel consumption between

Card 5/6

F-1920

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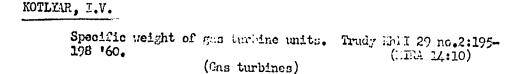
The Influence of Atmospheric Air Conditions on the Operation of a

chambers is not controlled as function of the air temperature, there is also a change in the temperature ratio beyond the combustion chambers. This must be carefully checked in each particular case.
There are 6 figures and 6 Soviet references.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute)

Card 6/6

# Galvanoinfluctothermy and mud inductothermy. Vop. kur., fizioter. i leach. flz. kul't. 25 no.2:176-177 Mg-Ap '60. (MIRA13:9) 1: Iz respublikanskoy klinicheskoy bol'nitsy Moldavskoy SSR (glavnyy vrach Yu.B. Kasperskiy). (ELECTROTHERAPEUTICS) (BATHS, MOOR AND MUD)



KOTLYAR, Iosif Veniaminovich; SHNEE, Ya.I., prof., doktor tekhn.nauk, red.;
PANSHIN, B.M., inzh., retsenzent; OMISHCHENKO, N.P., red.;
GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Variable operation of gas turbine systems] Peremennyi reshim raboty gasoturbinnykh ustanovok. Pod red. IA.I.Shnee. Moskva, Gos. isd-vo mashinostroit.lit-ry, 1961. 226 p. (MIRA 14:4) (Gas turbines)

KOTLYAR, Iosif Veniaminovich; ARONOV, I.Z., kand. tekhn. nauk, retsenzent; SHNEE, Ya.I., doktor tekhn. nauk, prof., red.; NIKIFOROVA, R.A., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn, red.

[Heat diagram for air and combustion products] Teplovaia diagramma dlin vozdukha i produktov sgoraniia. Izd.2., perer. Pod red. IA.I.Shnee. Moskva, Mashgiz, 1963. 12 p. (MIRA 16:10)

(Heat—Tables)

KOTLYAR, I.V. (Kishinev, ul. Pirogova, d.31,kv.3)

Inductophoresis therapy in diseases and injuries of the locomotor apparatus. Ortop., travm. i protez. 24 no.3: 57-60 Mr '63. (MIRA 17:2)

1. Iz kafedry obshchey khirurgii (zav. - prof. N.L. Gladyrevskiy) Kishinevskogo meditsinskogo instituta i fizioterapevticheskogo otdeleniya (zav. - I.V. Kotlyar) Respublikanskoy klinicheskoy bol'nitsy Moldavskoy SSR.

KOTLYAR, I.V.; GERMANOV, P.N.

Use of inductotherapy combined with other physical factors. Sbor. nauch. rab. vrach. san.-kur. uchr. profectuzov no.1:198-201 (MIRA 18:10)

1. Moldavskiy respublikanskiy sovet po upravlenivu kurortami professional'nykh soyuzov.

KOTLYAR, I.V., kand. tekhn. nauk; SELIN, V.V., inzh.

Study of the characteristics of the transient modes in gas turbine systems. Teplcenergetika 11 no.6:70-75 Je '64. (MIRA 18:7)

1. Kaliningradskiy tekhnicheskiy institut rybnoy promyshlennosti i khozyaystva.

KOTLYAR, I.V., kand. tekhn. nauk

Approximate mothod for determining the accelerating capability of gas turbine systems. Teploenergetika it no.9:73-75 S 164.

(MIRA 18:8)

1. Kaliningradskiy tekhnicheskiy institut rybnoy promyshlenmosti i khozynystva.

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ABSTRACT A muthod be set on some experimental data presents the flow conscious in this form. Indeq at the first the first components represent warfactors of flow depending of life hard and out asparameters on the rpm in the single stage, and on the utilities of out the life as add outlet speed of a preceding stage with the office sting spire (nether multistage curbine). In the general case when both the initial parameters slightly of spire ratio day, the flow equation is given by:    April	SOURGE: Energomanningercogenives no. Pre1965, 24-28	
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EXTLYAR J.V., kand. tekhn. nauk, dotsent; SELIN, V.V., inzh.

Dynamic character'stics of different gas turbine systems during sudden disturbances in fuel and load. Izv. vys. ucheb. zav.; energ. 8 no.7:58-65 Jl '65. (MIRA 18:9)

1. Kaliningrad\*kiy tekhnicheskiy institut rybnoy promyahlennosti i khozyaystva. Predstavleno kafedroy sudovykh silovykh ustanovok.

ACC NR: AT7003566

(N)

SOURCE CODE: UR/3240/66/000/001/0088/0096

AUTHORS: Kotlyar, I. V.; Yermol'chik, V. N.

ORG: Kaliningrad Technical Institute for the Fish Industry and Management (Kaliningradskiy tekhnicheskiy institut rybnoy promyshlennosti i khozyayatva)

TITLE: On intrinsic stability calculations for gas turbine installations

SOURCE: Kharkov. Politekhnicheskiy institut. Energeticheskoye mashinostroyeniye, no. 1, 1966. Teploobmen i gazodinamika (Heat transfer and gaz dynamics), 88-96

TOPIC TAGS: gas turbine, gas compressor, combustion chamber, stability criterion vibration

ABSTRACT: The intrinsic stability of a gas turbine installation which consists of three turbines, two compressors, and two combustion chembers is analyzed. Without considering a regenerator, the study leads to 28 linearized equations that describe the free vibrations of the gas turbine installation. The stability criterion is defined by the quantity I<sub>1</sub>, given by

 $Y_{i} = \frac{\lambda R_{i}}{\lambda \tilde{n}_{i}} = -R_{i} \frac{d \tilde{n}_{i}}{\lambda \tilde{n}_{i} \tilde{n}_{i}}, :$ 

where

 $R_1 = \frac{I_{f} \kappa n_{f0}}{30 \, \text{M}_{f10}}$ 

Card 1/2

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is the APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410001-0 on the j-th shaft. Two extreme values are obtained for the stability criterion, one for each compressor shaft. These are:

1) 
$$Y_{1a} = A_1$$
 at  $R_0 + \infty (\Delta R_0 + 0)$   
2)  $Y_{1a} = A_1 - \frac{E_1 E_0}{A_2}$  at  $R_0 + 0 (\Delta M_0 + 0)$ 

and

3) 
$$Y_{2n} = A_0$$
 at  $R_1 \to \infty (\Delta n_1 \to 0)$   
4)  $Y_{2n} = A_2 - \frac{E_1 E_0}{A_1} + \frac{R_1}{A_1} \to 0 (\Delta M_1 \to 0)$ 

A specific example is selected and the coefficients in the above 26 equations are evaluated. The results are then given in tabular form. Origo art. has: 39 equations, 1

SUB CODE: 21, 20/ SUBM DATE: none/ ORIG REF: CO1

# KotLyAR, Kh.R.

USSR / Farm Animals. Domestic Fowl.

Q

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40529.

Author : Kotlyar Kh. R.

Inst : Not given.

Title : Hydrolyzed Yeast as Protein Feed for Poultry.

Orig Pub: Ptitsevodstvo, 1957, No 7, 34-35.

Abstract: An experiment was conducted on two groups of chicks 5 days old (45 in each group). The 1st group was a control one. The rations of the 2nd group, an experimental one, were supplemented by the hydrolyzed yeast obtained from the waste of wood pulp and of agricultural raw materials. At one month, the live weight of the experimental chickens was 9% higher than that of the controls. In the blood of the ex-

Card 1/2

Abs Jour: Ref Zhur-Biol., No 9, 1908, 400000.

Abstract: perimental chickens, there was 48.6% of Hb, as against 43.4% in the controls. The heart, APPROVED FOR RELEASE: 108628/2000 betCIA-ROPS6F0051BR000825410001-0

the experimental chickens.

Card 2/2

59

USSR/Form Animals - Poultry

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: Ref Zhur- Biol., No 15, 1958, 69415

Author

: Kotlyar, Kh.R.

Inst

Title

: Utilization of Hydrolytic Yeast in Poultry Rations

Orig Pub

: S. kh. Povol'zhya, 1957, No 11, 38-41

Abstract

: The chemical composition of hydrolytic yeast (in %) is as follows: water 12.47, cellulose 8.73, albumin 30.78, protein 38.62, ash 8.4, fat 1.24 and nonnitregenous extractive substances 30.54. The albumin of the ration can

be replaced by hydrolytic yeast up to 25-40%.

Card 1/1

KOTLYAR, Kh. R.

Cand Agr Sci - (diss) "Feed hydrolyzed yeasts as substitutes for animal feeds, and vitamin "D" in rations of chickens under conditions of the Volga Region." Saratov, 1961. 23 pp; (Ministry of Agriculture RSFSR, Saratov State Zootechnical-Veterinary Inst); 200 copies; free; (KL, 10-61 sup, 221)

POLYKLANN, B.I., KONLYAR, K.T., PRONDZ, K.Y.

Boots and Shoes - Trade and Manufacture

Apparatus for determining the activity of a solvent for granitol. Leg. prom. 12 no. 4:33-34 Ap 152.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified

KOTLYAR, L., kandidat tekhnicheskikh nauk.

"Manual for students of milling industry technology." L.E.Aizikovich. Reviewed by L.Kotliar. .Kuk.-elev.prom.21 no.1:30 Ja 155. (MIRA 8:5)

1. Odesskiy tekhnologicheskiy institut im. I.V.Stalina. (Grain milling) (Aisikevich, L.E.)

#### KOTLYAR, L.

Methods for scheduled preventive maintenance on equipment. Kuk.-elev. prom. 21 no.5:30 Ky '55. (HIRA 8:9)

1. Odesskiy tekhnologicheskiy institut imen. I.V. Stalina. (Grain-milling machinery)

EESTEL MAN, H., kandidat tekhnicheskikh nauk; KOTLYAR, L., kandidat tekhnicheskikh nauk. Experimental studies en milling cern meal. Muk.-elev.prem. 21 ne.11: 13-15 N '55.

1. Odesskiy tekhnelegicheskiy institut imeni I.V. Stalina. (Cern milling)

KOTLYAR, L., kandidat tekhnicheskikh nauk.

Studying technological properties of grain. Muk.-elev.prom. 22
no.4:22-24 Ap '56. (MLRA 9:8)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina.

(Grain)

GALIPERIN, G., kandidat tekhnicheskikh nauk; KOTLIAR, L., kandidat tekhnicheskikh nauk.

Design of separators for drying and cleaning towers. Muk.-elev. prom. 23 no.3:3-5 Mr \*57. (MERA 10:5)

1. Odesskiy tekhnologicheskiy institut im. I.V. Stalina. (Separators (Machines))

PANCHENKO, A.V.; OSTAPCHUK, N.V.; KOTLYAR, L.I.

Effect of the load volume of the rell mill on the intensity of grain crushing. Izv.vys.ucheb.sav.; pishch.tekh. no.4: 117-123 '59. (HIRA 13:2)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina. Kafedra tekhnologicheskogo oborudovaniya. (Grain-milling machinery)

TSORFAS, S., inzh.: KOTLYAR, L., kand.tekhn.nauk; KESTEL'MAN, M., kand.tekhn.

For more extensive introduction of the preventive maintenance of machinery and equipment. Muk-elev.prom. 25 no.1:14-17 Ja \*59.

(MIRA 12:3)

1. Odesskiy tekhnologicheskiy institut ineni I.V. Stalina. (Grain-milling machinery--Maintenance and repair)

TSORF45, S., inzh.; KOTLYAR, L., kand.tekhn.nauk

Methods of determining the productive capacity of grain-milling enterprises. Muk.-elev.prom. 26 no.7:23-25 J1 '60.

(Flour mills)

(Flour mills)

DUDAREV, I.R.; KALISHEVICH, I.V., KOTLYAR, L.I.

Technoligical investigations of huskers of moist wheat. Izv.vys. ucheb.zav.;pishch.tekh. 1:71-79 '61. (MIRA 14:3)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina,
Kafedra tekhnologicheskogo oborudovaniya i kafedra tekhnologii
mukomol'no-krupyanogo i kombikormovogo proizvodstva.

(Mills and mill-work)

(Wheat)

GAL'PERIN, G.D.; KOTLYAR, L.I.

Intensification of the grain milling process in a roller mill. Izv. vys. ucheb. zav.; pishch. tekh. no. 2:88-98 \*61.

(MIRA 14:5)

l. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina. Kafedra tekhnologicheskogo oborudovaniya. (Grain milling)

KESTEL'MAN, N.Ya.; KOTLYAR, L.I.

Expediency of using capron in the trieur disk manufacture. Izv. vys. ucheb. zav.; pishch. tekh. no. 2:108-113 '61. (MIRA 14:5)

l. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina. Kafedra tekhnologii metallo i Kafedra tekhnologicheskogo oborudovaniya.

(Grain-handling machinery)

(Nylon)

DEMIDOV, P. G.; KOTLYAR, L. I.

"Pneumatic conveying in grain processing plants" by A. M. Dziadzio. Reviewed by P. G. Demidov, L. I. Kotliar. Izv. vys. ucheb. zav.; pishch. tekh. no.5:153-154 (MIRA 15:10)

(Pneumatic conveying) (Grain handling) (Dziadzio, A. M.)

SOKOLOV, Aleksandr Yakovlevich, doktor tekhn. nauk, prof.;

ZHISLIN, Ya.M., kand. tekhn. nauk; KOTLYAR, L.I.,

kand. tekhn. nauk; GINZ HURG, M.Ye., kand. tekhn. nauk;

FURER, G.L.; PARFENOV, K.A., kand. tekhn. nauk; RYZHOVA,

L.P., inzh., red. izd-va; MODEL', B.I., tekhn. red.

[Machines for processing grain] Mashiny dlia pererabotki zerna. Moskva, Mashgiz, 1963. 346 p. (MIRA 16:6)

1. Glavnyy instruktor zavoda im. F.E. Dzerzhinskogo (for Furer).

(Grain--Handling machinery)

GEORGI, N.V.; DUDAREV, I.R.; KOTLYAR, L.I.

Effect of ultrasonic waves on the resistance to impact (f wheat grains during washing with water. Izv. vys. ucheb. zav.; pishch. tekh. no.2:55-63 '63. (MIFA 16:5)

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova, kafedra tekhnologicheskogo oborudovaniya.

(Grain—Cleaning) (Wheat—Testing)

(Ultrasonic waves—Industrial applications)

Grain-processing machinery. Izv.vys.ucheb.zav.; pishch.tekh, no.1:171-172 '64. (MIRA 17:4)

KOTLYAR, Leon Iosifovich; KESTEL'MAN, Nusya Yakovlevich; OSTAPCHUK, Nikolay Vasil'yevich; VAYNBERG, Anton Antonovich; DENISENKOVA, L.M., red.; SOKOLOV, A.Ya., prof., doktor tekhn. nauk, red.

[Design and operation of sieves in screening machines] Konstruktsiia i ekspluatatsiia sit proseivaiushchikh mashin.

Moskva, 1963. 130 p. (MIRA 17:7)

ACC NRI AP6035916

(N)

SOURCE CODE: UR/0413/66/000/020/0159/0159

INVENTOR: Georgi, N. V.; Kotlyar, L. I.; Soldatenko, L. S.

ORG: None

TITLE: A hydrodyanmic plate emitter of ultrasonic waves. Class 42, No. 187424 [announced by the Odessa Technological Institute im. Lomonosov (Odesskiy tekhnologicheskiy institut)]

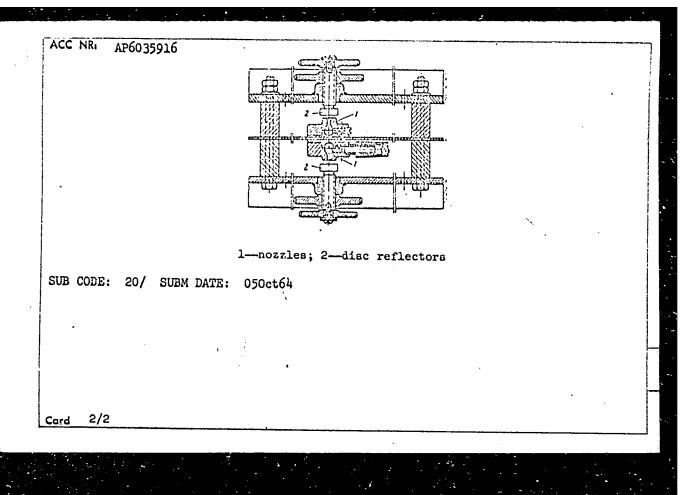
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 159

TOPIC TAGS: ultrasonic emitter, hydrodynamics

ABSTRACT: This Author's Certificate introduces a hydrodynamic plate emitter of ultrasonic waves. The unit contains a controllable resonating plate and nozzles fastened in a common frame. The power of the ultrasonic field is increased by rigidly fastening two conoidal nozzles on both sides of the resonating plate. Opposite the outlet aperques of the nozzles are reflecting discs which are moved through a fixed distance.

Card 1/2

IDC: 534-232:532-9



3,1210

S/035/60/000/007/009/018 A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 7, p. 61, # 6328

AUTHOR:

Kotlyar, L.M.

TITLE:

A New Solar Magnetograph of the Main Astronomical Observatory

AS USSR

PERIODICAL:

Astron. tsirkulyar, 1958, iyunya 18, No. 203, pp. 5-7

TEXT: A solar magnetograph of the Pulkovo Observatory is described which was put into operation in 1958. The optical diagram (see Figure 1) of the instrument and the block-diagram of its electronic part (see Figure 2) are presented.

(Figures 1 and 2)

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

Card 1/1

22381

S/035/61/000/005/014/042 A001/A101

5,/540 AUTHOR:

Kotlyar, L.M.

TITLE:

The solar magnetograph of the Main Astronomical Observatory AS USSR.

Part I

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 5, 1961, 50-51,

abstract 5A378 ("Izv. Gl. astron. observ. v Pulkove", 1960, v. 21,

no. 4, 73 - 87, Engl. summary)

TEXT: The author describes the design of the solar magnetograph operating according to Babcock's principle. The magnetograph works in combination with the great diffraction spectrograph mounted on the horizontal solar thescope at Pulkovo. To assure the accuracy of attaching the measured magnetic fields to the corresponding points on the Sun's surface, the author constructed a simple guide plotting the auxiliary image of the Sun on a control screen with a coordinate network. A specific feature of the construction described consists in that a special 'splitting' prism divides the profile of the spectral line which is being measured for Zeeman splitting, into two parts (a part of the profile is not lost when using this prism, as is the case with the two-slit system). The light from the right

Card 1/3

APPROVED FOR RELEASE: 08/23/2000

22381

S/035/61/000/005/014/042 A001/A101

The solar magnetograph ...

and the left wings of the line is incident on two photoelectronic multipliers. crystalline electric optical light modulator (modulation frequency is 400 cps) is placed in front of the input slit of the spectrograph; the modulator quenches alternately the left and right components of splitting (circular polarization of these components in opposite senses is used). This leads to the alternate increase of the light flux to one photomultiplier and decrease to the other. In photocurrents of the photomultipliers appears a variable component of modulation frequency the magnitude of which is, within some limits, proportional to splicting. This variable signal is supplied to the amplifier of photocurrents the first stage of which functions as a differential cathode follower; in this stage the useful signal caused by the line splitting is doubled and the effect of simultaneous changes in intensity of both components is eliminated. After selective amplification the signal is detected by a phase detector and recorded by a self-recording device. In distinction from the Babcock device, an automatic compensation of Doppler displacements of spectral lines takes place in this instrument. A Doppler line displacement leads to a change in the constant components of photocurrents of the photomultiplier. The signal originated when the equality of photocurrent constant components in the differential amplifier circuit is violated, controls the system of automatic displacement compensation. A potentiometric turning angle transducer

Card 2/3

CIA-RDP86-00513R000825410001-0"

The solar magnetograph ...

S/035/61/000/005/014/042 A001/A101

of this plate permits the recording of angles and thereby the determination of radial velocities in the studied sections of the solar surface. The shift of the solar image along the spectrograph input slit makes it possible to record the distribution of magnitude and polarity of the magnetic field over the solar surface. Recording is made by means of electronic potentiometers of the fill \_09 (EPP\_09) type. The magnetograph records without distortions magnetic fields which do not exceed the magnitude inducing splitting of a line amounting approximately to its width. All units of the device are described in detail (their schematic diagrams are presented), as well as the sequence of adjustment and calibration of the instrument and the observational procedure. The magnetograph can measure magnetic fields with a strength >1 gauss (noise level not exceeding 0.1 gauss). Preliminary results of observations are given. There are 12 references.

I. Zhulin

[Abstracter's note: Complete translation]

Card 3/3

81839

3.1240

S/033/60/037/03/008/027

Kotlyar, L.M.

E032/E314

AUTHOR: TITLE:

A New Differential Photometer for a Solar Magnetograph

PERIODICAL:

Astronomicheskiy zhurnal, 1960, Vol 37, Nr 3,

pp 469 - 475 (USSR)

ABSTRACT: The differential photometer described in the present paper differs from the existing photometers in that only one photomultiplier is used instead of two. There is also auxiliary modulation of the light beam by means of an electro-optical crystal modulator. The photometer is shown diagrammatically and schematically in Figure 1, in which N is the light source,  $\Pi$ 1 and  $\Pi$ 2 are polaroids, KM is the electro-optical crystal modulator, PN is the beam splitter followed by two  $\lambda/4$  plates,  $\Lambda$  is the lens and  $\sqrt[4]{0}$  is the photomultiplier. The light from the source M becomes linearly polarised on passing through the first polaroid. It is then converted into circularly polarised light by the electro-optical phaseshifting plate of the crystal modulator KM. The latter is in the form of a plane parallel plate cut from an Cardl/4 NH4H2POh crystal in the direction perpendicular to the

81839

s/033/60/037/03/008/027 EQ32/E314 menotograph

A New Differential Photometer for a Solar Magnetograph

Z axis. This plate is placed between two transparent electrodes. Under the action of an electric field such a plate assumes the properties of a biaxial crystal and produces a phase shift between the ordinary and the extraordinary rays. This shift is proportional to the applied voltage but is independent of the plate thickness. Thus, by exciting the crystal modulator with a suitable alternating voltage, the linearly polarised light can be converted into circularly polarised. The frequency of rotation of the plane of polarisation is equal to the frequency of the exciting voltage. The circularly polarised beam is split into two by the beam splitter and the two beams are then compared. Each of the two beams passes through its own  $\lambda/4$  plate and then through a common polaroid. The two beams are then brought together by the lens at a point on the photocathode of the photomultiplier. The axes of the  $\lambda/4$  plates are at  $\pm 45^{\circ}$ to the axis of the second polaroid and the corresponding axes of the  $\lambda/4$  plates are at rightangles. In this way, the  $\lambda/4$  plates transform the circularly polarised light into linearly polarised and whatever the direction

Card2/4

818*39* s/033/60/037/03/008/027 s6032/8314 s6032/8314 se032/8314

A New Differential Photometer for a Solar Magnetograph

of the circular polarisation one of the  $\lambda/4$  plates gives linearly polarised light in the direction coinciding with the axis of the second polaroid while the other  $\lambda/\bar{4}$  plate: gives linearly polarised light in the perpendicular direction. The two beams are alternately brough onto the photo cathode during successive half-periods of the exciting voltage. It is shown that the intensity of light transmitted along one of the paths is given by Eq (21). The parameters of the instrument were chose so that the intensity could be described by Eq (24). This expression is plotted in Figure 3 for each of the two paths. It is shown that if the intensities along the two paths are equal then the photomultiplier current is constant. If they are unequal then an alternating component appears whose amplitude is equal to the difference between the two intensities just after the beam splitter. A differential photometer based on this scheme was built into the new solar magnetograph at the Main Astronomical Observatory of the Ac.Sc., USSR (autumn, 1959). The magnetograph will be described in a

Card3/4 separate paper.

**EL930** 

s/033/60/037/005/013/024 E032/E514

9.4160 (3201,1105,1137

AUTHOR:

TITLE:

Kotlyar, L.M.

A Recording Microphotometer with Automatic Transforma-

tion of Photographic Density into the Corresponding

Intensities

Astronomicheskiy zhurnal, 1960, Vol.37, No.5, pp.888-896

The instrument is designed to transform automatically PERIODICAL: photographic densities into corresponding intensities or logarithms

of intensities in accordance with the characteristic curve of the negative. It is based on the Mo-2 (MF-2) microphotometer in which ( the selenium photocell was replaced by the \$\tilde{Q}\$ Y-20 (FEU-20)\$ photomultiplier. An electrical motor was also included for displacing microphotometer was described by L. A. Kamionko and L. M. Kotlyar the carriage of the photometer. in Ref.10. The photocurrents were recorded with the aid of the pen recorder 300 B-51 (EPPV-51). 2 This instrument is an electronic automatic compensator designed for measuring very small currents from high impedance sources (Ref.11). Its principle is as follows. The principal part of this instrument is a precision rheochord which is such that its resistance per unit length is as constant as Card 1/3

CIA-RDP86-00513R000825410001-0" **APPROVED FOR RELEASE: 08/23/2000** 

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S/033/60/037/005/013/024 E032/E514

A Recording Microphotometer with Automatic Transformation of Photographic Density into the Corresponding Intensities

The slide of the rheochord is connected to the pen and is brought into motion by a ser/omotor controlled by an amplifier. The current flowing through the rheochord is 5 mA and the voltage drop across it is 400 mV. A fraction of this voltage taken from the slide is used to back off the voltage drop produced by the current to be measured across one of the high input resistances of the The difference between these two voltages is fed into the input of the amplifier and the amplified difference brings into motion the servomotor which moves the slide until the two voltages As soon as the difference is zero, the motor comes to rest. At the same time the pen records the magnitude of the current through the high resistance. Since the voltage distribution along the rheochord is linear, the scale of the instrument is also linear. In order to convert this instrument into a functional convertor, which transforms the measured quantity in accordance with a pre-determined law, the voltage distribution along the rheochord must follow the appropriate law. In the present instrument this was Card 2/3

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84930

S/033/60/037/005/013/024 E032/E514

A Recording Microphotometer with Automatic Transformation of Photographic Density into the Corresponding Intensities

done by replacing the characteristic curve of the negative by a series of short linear segments and the voltage distribution along the rheochord was arranged accordingly. The resistances of the rheochord sections are in fact variable (the total number of sections about 20) so that any law can be set up on the rheochord. Typical spectra obtained with this device are shown in Fig.5. The curve on the left shows a direct transmission curve, whilst the curve on right shows the transform of the curve obtained with the aid of this instrument. The basic circuit of the device is shown in Fig.2 and ences: 3 Soviet, 1 German, 1 Italian and 6 English.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR (Main Astronomical Observatory of the Academy of Sciences USSR)

SUBMITTED: December 2, 1959

Card 3/3

#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R000825410001-0

S/035/61/000/009/029/036 A001/A101

3,1540

AUTHOR:

Kotlyar, L.M.

TITLE:

The solar magnetograph of the Main Astronomical Observatory, AS

USSR

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 56, abstract 9A503 ("Izv. Gl. astron. observ. v Pulkove", 1961, v. 22, no. 2, 95 - 107, Engl. summary)

The author describes in detail the magnetograph the brief description of which was published previously (see RZhAstr, 1961, 5A338). There are 6 references.

[Abstracter's note: Complete translation]

Card 1/1

KOTLYNR, L.M.

Some improvements of the sclar magnetograph of the Hain Astronomical Observatory of the Academy of Sciences of the U.S.S.R. Izv.GAG 22 no.4:52-57 \*61. (MIRA 14:10) (Spectrcheliograph)

S/757/61/022/002/004/007 E032/E114

AUTHOR:

Kotlyar, L.M.

TITLE:

The solar magnetograph of the Main Astronomical

Observatory of the AS USSR.

SOURCE:

Pulkovo. Astronomicheskaya observatoriya. Izvestiya.

v. 22, no. 2 (167). 1961. 95-107

TEXT: The first part of this paper was published by the author in lzv. GAO (no.163, 1960).

The original magnetograph was similar to that described by H.W. Babcock (Aph.J., v.110, 1949, 126; v.118, 1953, 387). found that the magnetograph suffered from a number of shortcomings. one of which was the use of two photomultipliers. This meant that the photomultiplier characteristics had to be closely matched. In the modified form now reported, there is only one photomultiplier and the two light beams are compared by bringing them in turn onto the photo-cathode and using phase detection of the amplified photocurrent. The instrument incorporates electrooptical crystal modulators, whose action was considered in a previous paper (L.M. Kotlyar, AZh, v.37, no.3, 1960, 469).

The solar magnetograph of the ... S/757/61/022/002/004/007 E032/E114

The complete optical system of the spectrograph and solar magnetograph is shown in Fig. 3, in which: 1 - spectrograph; 2 collimating mirror; 3 - mirror; 4 - diffraction grating; 5 - entrance slit; 6 - plane mirror; 7 - magnetograph; mirror; 9 - radial velocity compensator; 10 - slit; 11 - objective; 12 - beam splitting prism; 13 - mica  $\lambda/4$  plates; 14 - polaroid; 15 - lens; 16 - photomultiplier; 17 - modulator; 18 - first crystal modulator (400 cps); 19 - polaroid; 20 - second crystal modulator (4 7 kc/sec); Φ - light filter separating spectral orders. There is provision for automatic sensitivity control, ensuring constant sensitivity at different extinction, luminance of solar details, height of entrance slit of spectrograph, and so on. The sensitivity remains constant for light flux changes by a factor of up to 10. Basic circuits of the auxiliary electronics are reproduced and the calibration procedure is outlined. magnetograph was brought into operation in the summer of 1959. At present the \$99-17 (FEU-17) photomultiplier is used as the final detector, giving a noise level of 1 - 3% for a 1 mm long Card 2/4

The solar magnetograph of the ...

S/797/61/022/002/004/007 E032/E114

entrance slit. . This limits the scanning rate. In order to increase the scanning rate, photomultipliers with lower noise level will have to be used. There are 11 figures.

SUBMITTED: April 1960

Card 3/4

Solar magnetograph of the Fulkovo Observatory, Part 2, Isv.

GAO 22 no.2:95-107 '61. (MIRA 15:10)

(Pulkovo Observatory) (Heliograph)

KOTLYAR, L.M.

Using automatic potentiometers as functional converters. Priborostroenie no.5:29-30 My 163. (MIRA 16:8)

L 04247-67 EWT(1)

ACC NR: AR6004668

SOURCE CODE: UR/0269/65/000/010/0040/0041

AUTHOR: Kotlyar, L. M.

TITLE: Problem of measuring the total magnetic field intensity vector with a solar magnetograph

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.304

REF SOURCE: Solnechnyye dennyye, no. 10, 1964(1965), 66-73

TOPIC TAGS: solar magnetic field, light polarization, photomultiplier

ABSTRACT: A technique developed at GAO AN SSSR for measuring the total magnetic field vector on the sun is described. A rotating half-wave plate is mounted in front of the circular polarization analyzer (ADP crystal and polaroid) used in the longitudinal field magnetograph. Measurement of the field signal is produced, as usual, according to two portions of the wings symmetrically placed relative to the line center, the radiation being incident on two photomultipliers. The photomultiplier output signals are fed to two channels. A unit subtracting the two PM signals is placed at the input of the second channel. Analysis of the conversion of elliptically polarized light with passage through the polarization analyzer shows that at the output of the subtracting unit a variable signal is formed, its frequency equaling the frequency of the voltage supplied to the ADP crystal  $(\Omega)$ . This signal is proportional within definite limits to the magnitude of the longitudinal field component. Thus, the first channel is the

Card 1/2

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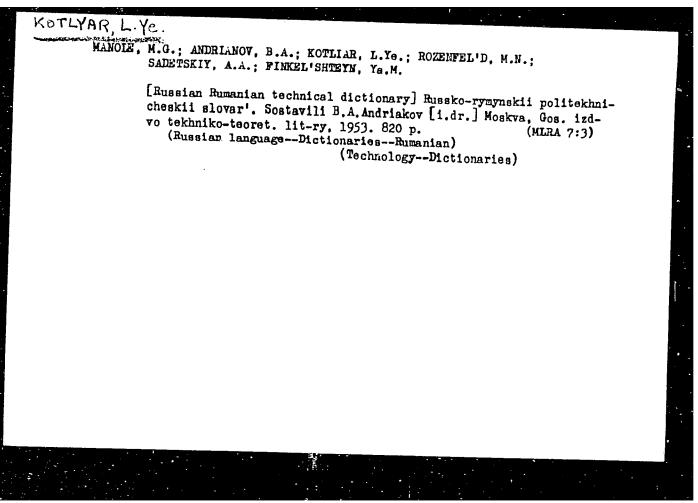
1. 04247-67

ACC NR: AR6004668

ordinary channel for measuring the longitudinal component  $(H_{ij})$ . Besides the subtraction unit, an amplifier at the frequency  $\Omega$ , a synchronous detector (D $\Omega$ ), and a recorder are used. The signal at the output of the addition unit is proportional to the magnitude i<sub>+</sub> described by the formula  $i_+=1/16(a^2-b^2)\sin(4it+\beta)+0.1(a^2-b^2)$ .  $[\sin[(2\Omega+4\nu)t+\beta]-\sin[(2\Omega-4\nu)t-\beta]]$ , where a and b are the amplitudes of the two orthogonal vibration components polarized along the axes of the polarization ellipse of the radiation, v is the frequency of rotation of the half-wave plate, and the phase angle eta is a function of the azimuth of the H vector projection on the figure plane. All the necessary information relative to the transverse component of the magnetic field vector is contained in the output signal i. To determine the parameters of the transverse field, the second channel contains a phase-measuring unit measuring the phase angle  $\beta$ , an azimuth recorder recording the measured value of the angle  $\beta$ , an amplifier at the frequency  $2\Omega$ , a synchronous detector at this frequency, a square law detector, and an H signal recorder. The reference signal to the phase-measuring unit is supplied from a reference signal detector coupled with the rotating halfwave plate. The described circuit allows the recording of the total vector components in the separate channels, which can simplify the utilization of the obtained data. Bibliography of 10 citations. B. Ioshpa Translation of abstract7

SUB CODE: 03,20

Card 2/2 fv



ANDRIANOV. B.A.; KOTLYAR, L.Ye.; MANOLE, M.G.; ROZENFEL'D. M.N.; SADETSKIY.
A.A.; FINEEL'SHTEYN, Ye'M.; LEPESHINSKAYA, Ye.V., redsktor; TUMCHKIHA,
N.A., tekhnicheskiy redsktor

[Rumanian-Russian polytechnical dictionary] Rumynsko-russkii politekhnicheskii slovari. Sost. B.A.Andrianov i dr. Pod red. M.G. Manole. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 715 p.

(MLRA 10:3)

(Rumanian language--Dictionaries--Russian) (Technology--Dictionaries)

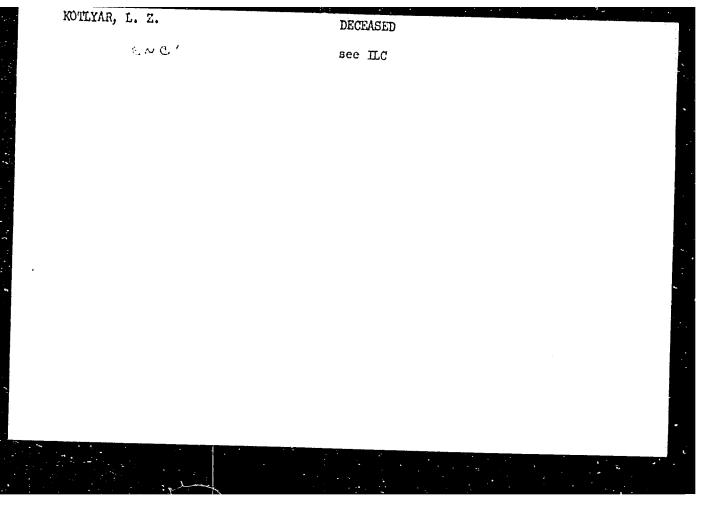
KOTLYAR, Lev Yevseyevich; MANGLE, H.G., red.; BRUINO, K.F., tekhn.red.

[Russian-Rumanian agricultural dictionary] Russko-rumynskii
sel'skokhozisistvennyy slovar'. Moskva, Glav.red.inostr.nauchnotekhn.slovarei Fizmatgiza, 1960. 456 p.

(Russian language Pictionardes P.

(Russian language-Dictionaries-Rumanian)
(Agriculture-Dictionaries)

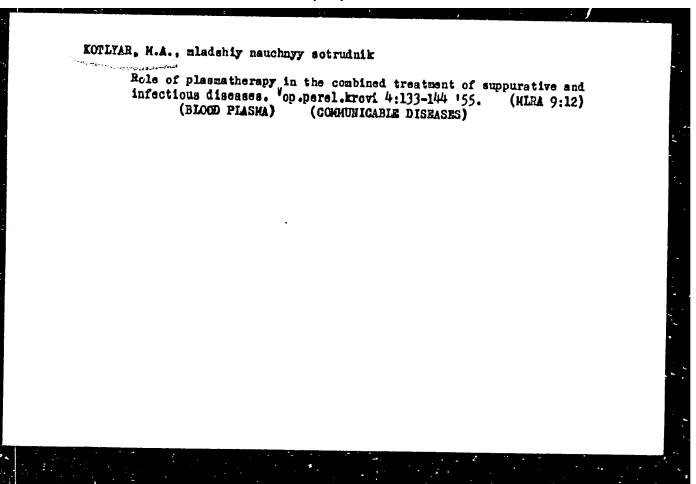
## "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410001-0



KOTLYAR, M. A.

KOTLYAR, M. A.: "Plasma therapy in the complex treatment of patients with suppurative inflammatory diseases". Khar'kov, 1965. Khar'kov Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopio', No. 52, 2h December, 19 5. Moscow.



KOZYR', P.T., ka midst biologicheskikh nauk; KOTLYAR, M.A., nauchnyy sotrudnik Changes in the opsonic index and complement titer in suppurative infections under the effect of plasmotherapy. Vop.perel.krovi 4: 155-164 155.

(BLOOD PLASMA) (OPSONIES AND OPSONIC INDEX)
(COMPLEMENTS (IMMUNITY) (SUPPURATION)

## "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410001-0

Karilton, Jil D

AID P - 3813

Subject

: USSR/Mining

Card 1/1

Pub. 78 - 1/25

Authors

: Karyagin, I. D., L. M. Tomashpol'skiy and M. D. Kotlyar

Title

The question of planning the organization of drilling

work production. (In the order of discussion)

Periodical

: Neft. khoz., v. 33, #11, 1-10, N 1955

Abstract

: The authors analyse different phases relating to the well drilling works and indicate shortcomings and lack of proper coordination, planning and organization. This article is one among many published in this journal in a general discussion on the subject of achieving better efficiency in drilling works through better planning, organization, adoption of more modern equipment and technical methods,

mechanization of work and automation.

Institution: Central Bureau of Work Standards (TSBNT)

Submitted

: No date

## "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410001-0

KARYAGIN, Ivan Dmitrieyvich; TOMASHPOL'SKIY, Leonid Markovich; KOTLYAR, Mikhail Davydovich; MURSHANOV, V.A., redaktor; MORGUNOVA, G.V., vedushchiy redaktor; ERDENKO, V.S., tekhnicheskiy redaktor

[Planning over-all organization of boring work] Proektirovanie kompleksnoi organizatsii burovykh rabot. Hoskva, Gos. nauchnotekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 99 p.

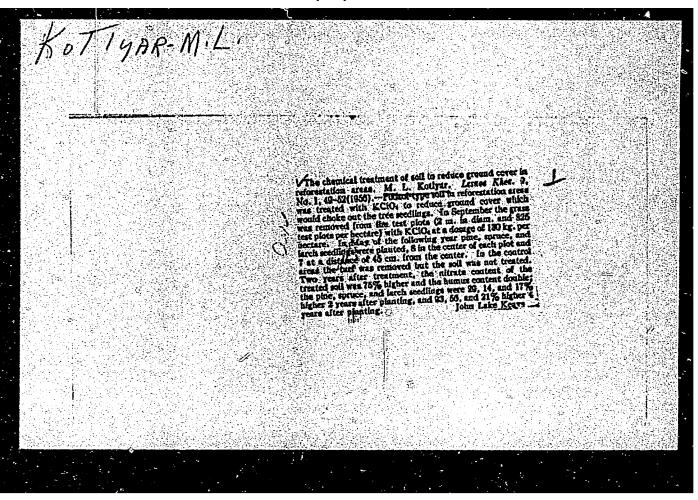
(Oil well drilling) (MIRA 9:12)

KOTLYAR, Mikhail Davydovich; ALEKSAMDROV, Mark Aleksandrovich; ISAYEVA.
V.V., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Drilling practices of the progressive Al'met'yevsk Gil Well
Drilling Trust] Opyt raboty peredovogo tresta Al'met'evburneft'.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1959. 52 p.

(Al'met'yevsk region--Oil well drilling)

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KOTLYAR, M. Ye., inzh.; SHTEYNDORF, Yu. Ye., inzh.

Straightening of large-size metal structures with a special hydraulic press. Svar. proizv. no.3:35-36 Mr '65. (MIRA 18:5)

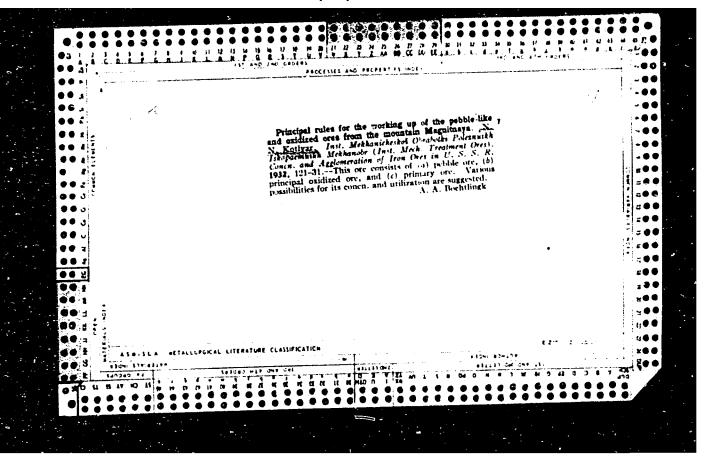
1. Novosibirskiy zavod tyazhelykh stankov i krupnykh gidropressov im. A.I.Yefimova.

BLEKHMAN, I.Ye., inzh.; KOTLYAR, N.L.

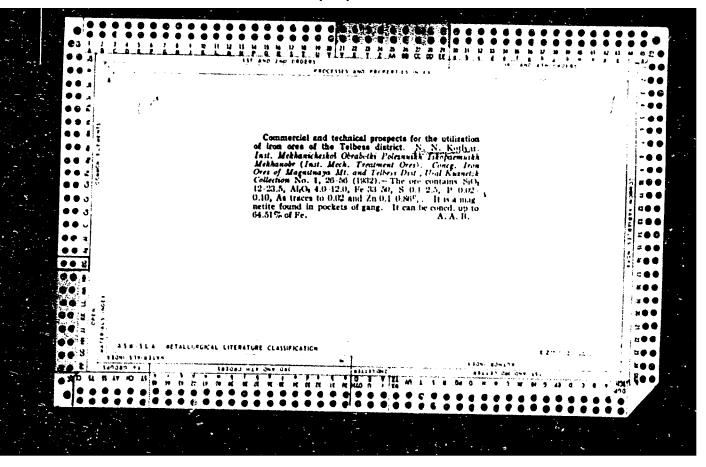
Stretching reinforcements by electrothermal methods in making ceiling beams. Prom. stroi. 38 no.5:44-47 '60. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Girders) (Prestressed concrete)

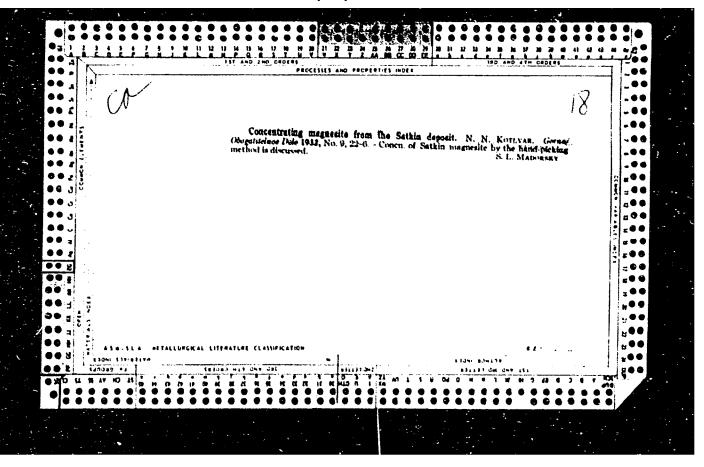
"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825410001-0



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KOTLYAR, N. N.

Mekhanicheskie klassifikatory. Sverdlovak, Metallurgizdat, 1945. 176,(4) p. illus.

Bibliography: p. 173-(177)

Mechanical classifiers (screens and separators)

DLC: TN515.K6

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

KORSHUNOV, Ye.S., inzh.; KOTLYAR, O.M., inzh.

Air-friction bit-feeding machanism. Trudy Gipromeftemasha.
Nefteprom.delo no.1:37-44 '61. (MIRA 15:8)

(Oil well drilling-Equipment and supplies)

RENNE, V.T., professor; KOTLYAR, O.N., inzhener; ANDREYEVA, M.A., inzhener.

Effect of iron and copper content in condenser paper upon the quality of condensers. Bum.prom. 29 no.8:18-19 Ag '54. (MLRA 7:9)

(Faper) (Condensers (Electricity))

AUTHORS: Kagan, V.G., and Kotlyar, P.E.

Z/019/61/018/012/001/004

D006/D102

TITLE:

Electronic device for signalling the saturation of air

with mercury vapors

PERIODICAL:

Prehled technické a hospodarské literatury, Energetika a elektrotechnika, v. 18, no. 12, 1961, 551, abstract # E 61-7599.

Elektr. i. teplovoz., Tyaga 5, February 1961, no. 2, 13-14

TEXT: The device is used in converter stations with mercury rectifiers. It consists of a bridge to which are connected two photocells illuminated by an ultraviolet-light source. One of the photocells is located nearer to the light source than the other. If there are no mercury vapors in the air the bridge is balanced. In the presence of mercury the rays reaching the farther photocell are more shaded than those reaching the nearer one and the bridge becomes unbalanced. The signal is amplified and fed to a signalling or recording device. The original article contains 2 figures. Abstracter's note: The above text is a full translation of the original Czech abstract.

Card 1/1

KOTLYAR, P.S.

How we organize a training installation. Voen. Enan. 25 no.12: 14-15 D '59. (HIRA 12:12)

l. Predsedatel' komiteta pervichnoy organizatsii zavoda im. Sergo Ordzhonikidze TSentral'nogo komiteta Dobrovol'nogo obshchestva.

(Moscow--Military education)

KOTLYAR, P.S., inzh.; GONOR, V.B., inzh.

Water conditions of low-capacity steam boilers. Bezop.truda v prom. 6 no.8:13-15 Ag '62. (MIRA 16:4)

1. Upravleniye Kiyevskogo okruga Gosudarstvennogo komiteta pri Sovete Ministrov UkrSSR po nadzoru za bezopasnym vedeniyem rabot v promyshlemnosti i gornomu nadzoru.

(Boilers)

KOTLYAR, P.S., insh.

Operating units for electromagnetic treatment of water. Bezop.truda v prom. 4 no.11:27-29 N '60. (MIRA 13:11)

1. Upravleniye Kiyevskogo okruga Gosgortekhnadzora USSR. (Feed-water purification)