

Asymptotic representations ...

S/020/61/140/001/002/024  
C111/C222

4.  $\mu = -\nu \leq -1$ ;  $z = -x \leq 0$ . The formulas are obtained as above by a change of the sign for  $\nu$ . For integral  $\nu$ :  $\nu = n$  and large  $x$  it holds

$$i_{-n}(-x) \sim \frac{2}{\Gamma(n)} e^{-x^2} (-2x)^{n-1} \quad (19)$$

For fractional  $\nu$  and large  $x$  it holds

$$i_{-\nu}(x) \sim \frac{2}{\Gamma(1-\nu)} x^{-\nu} \quad (20)$$

A number of further partially known formulas (amongst others concerning the connection with the Hermitean polynomials) is given. There are 3 Soviet-bloc and 2 non-Soviet-bloc references. The reference to the English language publication reads as follows: E.T. Whittaker, G.N. Watson: Kurs sovremennogo analiza (Modern analysis), 2, 1934. ✓

PRESENTED: March 21, 1961, by A.A. Dorodnitsyn, Academician

SUBMITTED: March 20, 1961

Card 3/3

PETROV, V.N.; PRESSMAN, A.Ya.

Estimation of the effect of turbulent scattering along the vertical and in the direction of the wind on the propagation of a polydispersed impurity. Dokl. AN SSSR 146 no.1:86-88 S '62.  
(MIRA 15:9)

1. Institut prikladnoy geofiziki AN SSSR. Predstavleno akademikom Ye.K. Fedorovym.  
(Geophysics)

ACC NR: AP7002139

SOURCE CODE: UR/0050/66/000/012/0019/0026

AUTHOR: Pressman, D. Ya.

ORG: Hydrometeorologic Center for Scientific Research, SSSR (Gidrometeorologicheskii nauchno-issledovatel'skiy tseentr SSSR)

TITLE: Solution of the complete equations for short-range weather prognosis and of the problem of nonlinear adaptation of the pressure and wind fields

SOURCE: Meteorologiya i gidrologiya, no. 12, 1966, 19-26

TOPIC TAGS: atmospheric model, atmospheric movement, atmospheric geopotential, weather forecasting, atmospheric pressure, atmospheric wind field

ABSTRACT: Solution of the system of equations

$$\left. \begin{aligned} \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + \omega \frac{\partial u}{\partial \zeta} - l v + \frac{\partial \Phi}{\partial x} &= 0 \\ \frac{\partial v}{\partial t} + u \frac{\partial v}{\partial x} + v \frac{\partial v}{\partial y} + \omega \frac{\partial v}{\partial \zeta} - l u + \frac{\partial \Phi}{\partial y} &= 0 \\ \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial \omega}{\partial \zeta} &= 0 \\ \frac{\partial^2 \Phi}{\partial t^2} + u \frac{\partial^2 \Phi}{\partial x \partial \zeta} + v \frac{\partial^2 \Phi}{\partial y \partial \zeta} + \lambda(\zeta) \omega &= 0, \end{aligned} \right\}$$

Card 1/3

UDC: 551.509.313

ACC NR: AP7002139

describing atmospheric movement, is worked out by the finite-difference method. Here,  $x, y, \zeta = \frac{p}{p_{1000}}, t$  are coordinates and time;  $u = \frac{dx}{dt}, v = \frac{dy}{dt}, w = \frac{d\zeta}{dt}$  are components of velocity in these coordinates;  $\Phi$  - is geopotential;  $f$  - Coriolis parameter, here assumed to be equal  $f_0 \sin \frac{\pi x}{L} \cdot \sin \frac{\pi y}{L}$ .  $f_0 = 1.4 \cdot 10^{-4} \text{ cek}^{-1}$ ;  $L$  - is the length of the interval within which  $x$  and  $y$  are variables;  $\lambda(\zeta) = \frac{R^2 T(\zeta) (\gamma_a - \gamma)}{g \zeta^2}$ ;  $\gamma_a$  - adiabatic lapse rate;  $\gamma$  - temperature lapse rate;  $R$  - gas constant;  $T(\zeta)$  - standard temperature;  $g$  - gravity acceleration;  $p$  - pressure. The viscosity and effect of the earth's surface curvature are ignored, and the atmospheric processes are assumed to be adiabatic and pseudostatic. An example of prognosis attained for 24 hours by using the above system of equations is given in Fig. 1. The average relative error for the geopotential field in this example, as calculated for the European territory, is 0.65 (sea level), 0.67 (700 millibar), 0.55 (300 millibar). The author expresses his gratitude to A. I. Kibel', corresponding member of AN SSSR, for his interest in this work.

Card 2/3

ACC NR: AP7002139

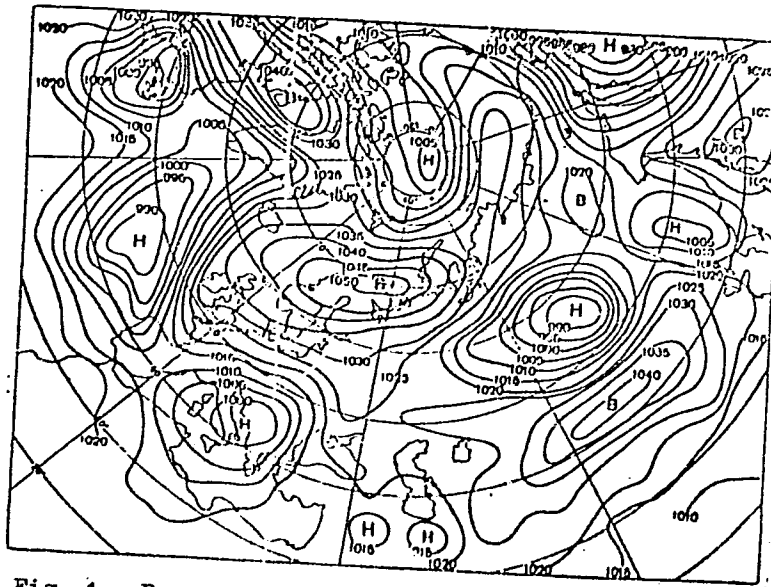


Fig. 1. Prognostic map of the surface pressure for 3 hours, 13 January 1966

Orig. art. has: 3 figures and 3 equations.

Card 3/3 SUB CODE: 04/ SUBM DATE: 03Aug66/ ORIG REF: 003

L 27369-66 EWI(1)/FCC GW/JXT(CZ)

ACC NR: AT5024833

UR/3118/65/000/006/0033/0040

AUTHOR: <sup>D.</sup> Pressman, N. Ya.

55  
B+1

ORG: None\*

TITLE: A finite differences method of short term weather prediction

SOURCE: \*Mirovoy meteorologicheskoy tsentr. Trudy, no.6, 1965. Voprosy gidrodinamicheskogo kratkosrochnogo prognoza pogody i mezometeorologii (problems in hydrodynamic short-range weather forecasting and mesometeorology), 33-40

TOPIC TAGS: weather forecasting, hydrodynamics, mathematic model, atmospheric model, approximation, wind velocity, atmospheric geopotential, weather map, Coriolis force, iteration, atmospheric pressure, atmospheric density

ABSTRACT: A finite differences mathematical model for the numerical solution of single layer atmosphere hydrodynamic equations is proposed and its computational stability investigated. The departure point is the system of hydrodynamic equations, (1)

$$\left. \begin{aligned} \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} - fv + \frac{\partial \Phi}{\partial x} &= 0 \\ \frac{\partial v}{\partial t} + u \frac{\partial v}{\partial x} + v \frac{\partial v}{\partial y} + fv + \frac{\partial \Phi}{\partial y} &= 0 \\ \frac{\partial \Phi}{\partial t} + u \frac{\partial \Phi}{\partial x} + v \frac{\partial \Phi}{\partial y} + c^2 \left( \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} \right) &= 0 \end{aligned} \right\} \quad (1)$$

which is an approximation to certain well known hydrodynamic equations. The notations

Card 1/3

UDC: None

L 27369-66

ACC NR: AT5024833

are:  $u, v$ , - horizontal components of the wind velocity;  $\Phi$  - geopotential;  $l$  - the Coriolis parameter;  $c$ , - a constant having the dimension of velocity and given by

$$c^2 = - \frac{(\rho_0 - \rho_1) \rho_1}{2} \left( \frac{1}{\rho \theta} \frac{\partial \theta}{\partial p} \right) \Big|_{p=\rho_1} \quad (2)$$

where  $p$  - pressure,  $\rho$  - density,  $\theta$  - potential temperature, and subscripts refer to the ground and the working level. The initial conditions are  $u_0, v_0, \Phi_0$  at time  $t=0$  for the working level within the square  $0 \leq x, y \leq L$ . No air exchange at the boundary; zero Coriolis coefficient at the boundary, a consequence of the assumption

$$l = l_0 \sin \frac{\pi x}{L} \sin \frac{\pi y}{L} \quad (3)$$

Numerical computations occur upon a network system with a time step of  $\Delta t$ , and a length step of  $\Delta L$  on the  $x, y$  plane; all functions are considered on that net. The network computation schematic is explicit: an unknown value on the  $k$ 'th time layer on the point  $m\Delta L, n\Delta L$  is determined from the magnitudes of the function on the previous time layer upon nine nearest points:  $(m + s)\Delta L, (n + r)\Delta L$   $r, s = -1, 0, +1$ . The author then shows that continuous computation (iteration, Abstractor) based upon alternate linearization or "stationarization" of the system (1) by alternate step assumptions e.g.  $u = \text{const.} = a; v = 0$ , transferring or transforming (1) into (4)

$$\left. \begin{aligned} \frac{\partial u}{\partial t} + a \frac{\partial u}{\partial x} - lv + \frac{\partial \Phi}{\partial x} &= 0 \\ \frac{\partial v}{\partial t} + a \frac{\partial v}{\partial x} + lu + \frac{\partial \Phi}{\partial y} &= 0 \\ \frac{\partial \Phi}{\partial t} + a \frac{\partial \Phi}{\partial x} + c^2 \left( \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} \right) &= 0 \end{aligned} \right\} \quad (4)$$

Card 2/3

L 27369-66

ACC NR: AT5024833

is always stable (that is, the iteration process for them converges, Abstractor). To investigate now the corresponding finite differences process, the author initially disregards the Coriolis parameter ( $l = 0$ ) and obtains for this case the stability criterion in the form

$$r(a + c) \leq 1 \quad (5) \quad \text{where:}$$

$$r = \Delta t / \Delta L \quad (6)$$

A stability criterion based upon the Courant condition yields the expression

$$r \cdot c^* \leq 1 \quad (7); \quad c^* = c + \sqrt{u^2 + v^2} \quad (7b)$$

These considerations were applied, for experimental testing, to a system obtained by curtailing system (1), the curtailed system having a known solution. The system was

$$\left. \begin{aligned} \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} - lv + \frac{\partial \phi}{\partial x} &= 0 \\ \frac{\partial v}{\partial t} + u \frac{\partial v}{\partial x} + v \frac{\partial v}{\partial y} + lu + \frac{\partial \phi}{\partial y} &= 0 \\ \frac{\partial \phi}{\partial t} + c^2 \left( \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} \right) &= 0 \end{aligned} \right\} \quad (8)$$

Computations showed that no instability develops if (7) is satisfied, however  $c^*$  is in this case defined by the expression

$$c^* = \frac{\sqrt{4c^2 + u^2 + v^2} + \sqrt{u^2 + v^2}}{2} \quad (9)$$

Examples of prognostic weather maps are give. Orig art. has 4 fig., 20 formulas.

SUB CODE: 04,12,20 SUBM DATE: none / ORIG REF: 001/ OTH REF: 001

Card 3/3 *do*



PRESSMAN, L.P., doktor med.nauk

Hypertension in young people. Trudy MONIKI no.5:84-87 '62.

(HYPERTENSION)

(MIRA 16:4)

PRESSMAN, L.P.; ARTEMENKO, I.N.

Anticoagulants in the treatment of cardiovascular diseases.  
Trudy MONIKI no.5:225-230 '62. (MIRA 16:4)

1. Iz II terapevticheskoy kliniki Moskovskogo oblastnogo  
nauchno-issledovatel'skogo klinicheskogo instituta imeni  
Vladimirskogo (zav. - doktor med.nauk L.P.Pressman).  
(CARDIOVASCULAR SYSTEM--DISEASES)  
(ANTICOAGULANTS (MEDICINE))

TURBAYEVSKIY, S.N., inzh.; PRESSMAN, I.G., inzh.

Work quality control. Energ.stroi. no.23:95-101 '61. (MIRA 15:1)  
(Hydraulic structures--Quality control)  
(Kremenchug Hydroelectric Power Station--Design and construction)

PRESSMAN, L. I.

Otogenous cranial osteomyelitis. Vest. otorinolar., Moskva 15 no.4:  
80-81 July-Aug 1953. (CLML 25:1)

1. Candidate Medical Sciences. 2. Moscow.

PRESSMAN, L.I., kandidat meditsinskikh nauk (Moscow).

Otogenous cranial osteomyelitis. Vest.oto-rin. 15 no.4:80-81 Л1-Аg '53.  
(MLRA 6:9)  
(Osteomyelitis)

GUMIN, I.Ya. [author]; SIN'KOV, V.M., kandidat tekhnicheskikh nauk, dotsent;  
PRESSMAN, S.M., inzhener [reviewers].

"Secondary schemes of electric power plants." I. I.A. Gumin. Reviewed by V.M.  
Sin'kov, S.M. Pressman. Elektrichestvo no.10:94-95 0 '53. (MIRA 6:10)  
(Electric power plants) (Gumin, I. I.A.)

PRESSMAN, S. M.

Electric Currents - Grounding; Dynamos

Operation of protective devices against ground short circuit of generators. Elek. Sta., No. 1, 1952 Inzh. Kuybyshevenergo

SO: Monthly List of Russian Accessions, Library of Congress, March, 1952 ~~1952~~, Uncl.

FRESSMAN, L. I.

"Cerebral Hemorrhage Due to Puncture", Vest. Oto-rino-laringol., No. 4, 1948.

Mbr., Clinic Moscow Mil. Hosp. No. 3419, -c1948-.

✓ Otorhinolaryngological



PRESSMAN, L.I.

Review of abstracts from the periodical "Monatsschrift fur Ohren-  
heilkunde und Laryngo-Rhinologie" for 1953. L.I.Pressman. Vest.Oto-  
rin. 17 no.2:89-91 Mr-Apr '55. (MIRA 8:7)

(OTORHINOLARYNGOLOGY--ABSTRACTS)

PRESSMAN, L.I.

Eighth Congress of Austrian Otorhinolaryngologists; abstract.  
Vest.oto-rin. 16 no.1:90-92 Ja-F '54. (MLRA 7:3)  
(Austria--Otorhinolaryngology)  
(Otorhinolaryngology--Austria)

PRESSMAN, L.I.

Use of corticosteroids in otorhinolaryngology; survey of foreign literature. Vest. otorin. 22 no. 5:83-91 S-O '60. (MIRA 13:11)  
(OTORHINOLARYNGOLOGY) (ADRENOCORTICAL HORMONES)

PRESSMAN, L. I., kand.med.nauk

Hemorrhage in otorhinolaryngology (from "Revue de laryngologie,  
otologie, rhinologie," No.9/10, 1957, pp.907-922). Vest.oto.-rin.  
20 no.3:115-118 My-Je '58 (MIRA 11:6)  
(HEMORRHAGE)  
(OTORHINOLARYNGOLOGY)

PRESSMAN, L. I.

25944 Pressman, L. I. K voprosu o raneniyakh shel po dannym armeyskogo rayona. Sbornik nauch. rabot lecheb. uchrezhdeniy Mosk. voyen. okr. Gor'kiy, 1948, s. 113-17

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

PRESSMAN, L.I.

"Les annales d'oto-laryngologie" for 1954; abstracts by L.I. Pressman.  
Vest. oto-rin. 17 no.5:86-90 S-0 '55. (MLRA 9:2)

(FRANCE--OTORHINOLARYNGOLOGY--ABSTRACTS)

PRESSMAN, L.I., kandidat meditsinskikh nauk

"Problems in bronchoscopy and esophagoscopy" (Les annales d'oto-laryngologie Vol. 72 no.8/9 '55). Reviewed by L.I.Pressman. Vest. oto-rin. 18 no.3:84-86 My-Je '56. (MLRA 9:8)  
(BRONCHOSCOPY) (ESOPHAGUS--EXPLORATION)

PRESSMAN, L.I., kandidat meditsinskikh nauk

Review of abstracts from the magazine "Monatsschrift für Ohrenheil-  
kunde und Laryngo-Rhinologi" [Monthly journal of otorhinolaryngology]  
for 1955. Vest.oto-rin. 18 no.5:71-75 S-0 '56. (MLRA 9:11)  
(GERMANY--OTORHINOLARYNGOLOGY--ABSTRACTS)



PRESSMAN, L.I., kandidat meditsinskikh nauk

Abstract review of "Les Annales d'oto-laryngologie," 1955, no.  
1,4,5-6. Reviewed by L.I.Pressman. Vest. otorin. 18 no.2:84-88  
Mr-Ap '56. (MIRA 9:7)  
(FRANCE--OTORHINOLARYNGOLOGY--PERIODICALS)

PRESSMAN, Lev Petrovich

[Treatment of cardiac insufficiency] Lechenie serdechnoi nedo-  
statochnosti. Moskva, Medgiz, 1959. 166 p. (MIRA 13:7)  
(HEART FAILURE)

PRESSMAN, L. F.

706. KURSHANOV, N. A. i PRESSMAN, L. F. M. V. Yanovskiy. K. stoleyty so dnya  
rozhdeniya. 1874-1954. M., Medgiz, 1954, 160s. s ill.; 1 c. portr. 2 sn.  
(Vydayushchiy sya deyato i oteches'tva meditsiny). 5,000 kuz 5r 2k. V per. —  
Na pekolete avt. ne ukazany.--"Nauch. trudy. Vypunennyye lichno M. V. Yanovskim."  
"Literatura o M. V. Yanovskom" Rabory. Vypolnennyye sotrudnikami kunka, rukovodimoy  
M. V. Yanovskim." s. 140-57.--(54-55221) p 61(7) (092 Yanovskiy) 1 012 Yanovskiy  
1 016.3/

SO: Knizhnaya Letopis, Vol. 1, 1955

BONDAR', Z.A., doktor meditsinskikh nauk

M.V.IAnovskii, on his 100th birthday. N.A.Kurshakov. L.P.Pressman.  
Reviewed by Z.A.Bondar'. Sov.med.19 no.8:92-94 Ag '55 (MIRA 8:10)  
(IANOVSKII, MIKHAIL VLADIMIROVICH, 1854-1927)  
(KURSHAKOV, N.A.) (PRESSMAN, L.P.)

PRESSMAN, L.P., dots. (Moskva)

Clinical determination of vascular sensitivity. Klin.med. 36  
no.9:62-66 S '58 (MIRA 11:10)

1. Iz terapevticheskoy kliniki (zav. - chlen-korrespondent AMN  
SSSR prof. N.S. Molchanov) Moskovskogo oblastnogo nauchno-issledovatel'  
skogo klinicheskogo instituta (dir. P.M. Leonenko).

(BLOOD VESSELS, physiol.

interreceptor vasc. appar. (Rus))

PRESSMAN, J.P., dotsent

Genesis and clinical aspects of congestive hypertension. Vrach.delo  
no.9:983 S '59. (MIRA 13:2)

1. Terapevticheskaya klinika (zaveduyushchiy - chlen-korrespondent  
AMN SSSR, prof. N.S. Melchanov) Moskovskogo oblastnogo nauchno-issle-  
dovatel'skogo klinicheskogo instituta imeni M.V. Vladimirovskogo.  
(HYPERTENSION)

PRESSMAN, L. P., Doc Med Sci -- "Blood pressure and vascular tone in the physiology and pathology of blood circulation." Mos-Len, 1961. Acad Sci USSR. Inst of Physiol im I. P. Pavlov) (KL, 8-61, 257)

- 419 -

PRESSMAN, L.P.

Changes in the vascular tonus in normal and pathological conditions.  
Vop. klin. pat. no.3:3-10 '61. (MIRA 14:12)

1. Iz II Terapevticheskoy kliniki Moskovskogo oblastnogo nauchno-  
issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo.  
(CARDIOVASCULAR SYSTEM DISEASES)



PRESSMAN, L.P.

Changes in vascular tonus in hypertension and atherosclerosis.  
Vop. klin. pat. no.3:15-24 '61. (MIRA 14:12)

1. Iz II Terapevticheskoy kliniki Moskovskogo oblastnogo nauchno-  
issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo.  
(HYPERTENSION) (ARTERIOSCLEROSIS)  
(CARDIOVASCULAR SYSTEM DISEASES)

PRESSMAN, L.P.

Static hypertension. Vop. klin. pat. no.3:25-33 '61.

(MIRA 14:12)

1. Iz II Terapevticheskoy kliniki Moskovskogo oblastnogo nauchno-  
issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo.  
(HYPERTENSION)

PRESSMAN, L.P.

Principles of therapy in chronic cardiac insufficiency. Sov. zdrav.  
Kir. no.3:3-9 My-Je '62. (MIRA 15:5)

1. Iz 2-y terapevticheskoy kliniki (zav. - L.P.Pressman) Moskovskogo  
oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni  
M.F. Vladimirskego (direktor - P.M.Leonenko);  
(HEART--DISEASES)

PRESSMAN, L.P., doktor med. nauk, red.; MALINOV, N.I., prof. red.;  
ZAKHAR'YAN, S.T., st. nauchn. sotr., red.; DRYK, V.Ye.,  
and. med. nauk, red.; ZAVRAZHIN, E.M., red.; KATSEVICH, I.M., red.;  
SMIRNOV, B.V., red.; LUCHNER, E.A., kand. med. nauk, red.

[Problems of practical medicine] Voprosy prakticheskoi meditsiny; sbornik trudov. Moskva, 1963. 252 p.

(BIBL 17:9)

1. Moscow. Moskovskiy oblastnoy nauchno-issledovatel'skiy institut imeni N.F.Vladimirova. B. Zaveduyushchiy Pervoy khirurgicheskoy kliniki Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta im. N.F.Vladimirovskogo (for Makhov).

PRESSMAN, L.P. (Moskva)

Hypertension and atherosclerosis. Trudy MONIKI no.5:220-224 '62.  
(MIRA 16:4)

(HYPERTENSION) (ARTERIOSCLEROSIS)

PRESSMAN, YA. M.

PA 38T72 -

DESR/Medicine - Eyes - Accommodation and Refraction  
Medicine - Light - Perception Nov 1947

"Accommodation Constant of an Optical Instrument and Its Variations in the Process of Adaptation of the Eye to Darkness," Ya. M. Pressman, State Institute of the Study of the Brain Imeni Bekhterev, Leningrad, 2 pp

"Dok Ak Nauk" Vol XVIII, No 5

Account of experiments conducted to confirm some of Orbell's theories with regard to accommodation and adaptation; in particular, experiments to determine the constant of accommodation of visual apparatus in daytime conditions, and also adaptation to darkness.

~~DESR/Medicine - Eyes - Accommodation and Refraction (Contd)~~ 38T72  
NOV 1947

Experiments were conducted with five instruments using a natural source of light. Submitted by Academician I. A. Orbell, 12 May 1947.

38T72

PRESSMAN, Ya. M.

USSR/Biology - Neurology

Card 1/1 : Pub. 124 - 24/35

Authors : Pressman, Ya. M., and Struchkov, M. I., Candidates of Biol. Sc.

Title : Problems of higher nervous activity

Periodical : Vest. AN SSSR 7, 92-94, July 1954

Abstract : Minutes of the 16-th All-Union Conference of candidates of physiological sciences at which physiological problems of higher nervous activity of animals were debated.

Institution : ....

Submitted : ....

TRON, Ya.Zh.,; PRESSMAN, Ya.M.

Clinical significance of electroencephalography in homonymous  
hemianopsias. Probl. fiziol-opt. 11: '55. (MLRA 9:6)

1. Nauchno-issledovatel'skiy neyrokhirurgicheskiy institut imeni  
professora Polenova.

(HEMIANOPSIA,

homonymous, EEG (Rus))

(ELECTROENCEPHALOGRAPHY, in various diseases,  
hemianopia, homonymous (Rus))



*Pressman, Ya.M.*

PRESSMAN, Ya.M.

Defense-motor conditioned reflexes in dogs during adaptation to the dark. Zhur.vys.nerv.deiat.5 no.3:402-405 My-Je '55.  
(MLRA 8:10)

1. Fiziologicheskaya laboratoriya Akademii nauk SSSR  
(REFLEX, CONDITIONED,  
defense-motor reflex in dogs during dark adaptation)  
(ADAPTATION, OCULAR,  
dark, adaptation, conditioned defense-motor reflexes  
during adaptation in dogs)

PRESSMAN Ya.M.

Temporary differentiation thresholds of excitation of cutaneous and visual analysors in dogs [with summary in English]. Zhur. vys.nevr. deiat. 8 no.6:871-878 N-D '58 (MIRA 12:1)

1. Physiological Laboratory, USSR Academy of Sciences, Moscow.  
(REFLEX, CONDITIONED,

temporary differentiation of skin & visual analyzer  
irritation thresholds in dog (Rus))

(SKIN, physiol.  
same (Rus))

(EYE, physiol.  
same (Rus))

17(0), 17(15)  
AUTHOR:

Pressman, Ya. M., Candidate of  
Biological Sciences

SOV/30-59-3-32/61

TITLE:

News in Brief (Kratkiye soobshcheniya) . Symposium on Problems  
of Peripheral and Central Mechanisms of the Motive Activities  
of Animals (Simpozium po voprosam izucheniya perifericheskikh  
i tsentral'nykh mekhanizmov dvigatel'noy deyatel'nosti  
zhivotnykh)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 3, pp 107-108 (USSR)

ABSTRACT:

This symposium was organized by the Pol'skaya Akademiya nauk  
(Polish Academy of Sciences) and took place from September 9  
to September 16, 1958 at Osechno near Poznan'. It was attended  
by 3 scientific collectives of the following institutes:  
otdel neyrofiziologii Instituta biologii im. M. Nentskogo  
Pol'skoy Akademii nauk (Department for Neurophysiology of the  
Institute for Biology imeni M. Nencki of the Polish Academy  
of Sciences), Fiziologicheskaya laboratoriya Akademii nauk  
SSSR (Physiological Laboratory of the Academy of Sciences of  
the USSR) and Fiziologicheskaya laboratoriya Chekhoslovatskoy  
Akademii nauk (Physiological Laboratory of the Czechoslovakian  
Academy of Sciences). The majority of lectures dealt with

Card 1/4

News in Brief. Symposium on Problems of Peripheral  
and Central Mechanisms of the Motive Activities of  
Animals

SOV/30-59-3-32/61

investigations of physiological processes. The following reports are mentioned: E. A. Asratyan (USSR) spoke about the problem of the process of the creation of a conditioned connection; W. Wyrwicka (Poland) described the basic structural features which intercentral connections caused by a conditioned reflex of type 2 (according to the classification by J. Konorski have in common with a conditioned motive reflex of the classical type; M. Ye. Varga (USSR) spoke about the creation of conditioned connections between the centers of feed- and defence stimuli; S. Soltysik and E. Jankowska (Poland) spoke about the part played by cortical and sub-cortical structures at the termination of the conditioned reflex; E. Fonberg (Poland) gave data concerning the particular features of conditioned defense reflexes; Ya. M. Pressman (USSR) spoke about the interaction in micro-intervals of time between positive and restrictive conditioned motive reflexes; B. I. Pakovich (USSR) spoke about the possibility of working out a conditioned motive reflex; I. Lat (Czechoslovakia) spoke about the interaction of various kinds of motive reactions in the process of the formation of conditioned motive

Card 2/4

News in Brief. Symposium on Problems of Peripheral  
and Central Mechanisms of the Motive Activities of  
Animals

SOV/30-59-3-32/61

reflexes; I. A. Bulygin (USSR) spoke about the interrelations between exteroceptive and interoceptive conditioned reflexes; W. Wyrwicka (Poland) explained the changing-over process in higher nerve-function; G. T. Sakhiulina (USSR) spoke about some forms of electric activity of the cerebral cortex; E. Gutman, R. Beránek, P. Hnik, G. Vrbová (Czechoslovakia), E. Jankowska, T. Górska (Poland) dealt with the part played by and the importance of the afferent property of the motions of animals; I. Stepien, L. Stepien, J. Konorski, E. Yankovska (all Poland) gave a report on the results obtained by a fine analysis of the sensomotive range in the structure of conditioned motive reflexes of various kinds. The lecture was illustrated by a film. S. Sołtysik (Poland), Ye. A. Romanovskaya (USSR) spoke about the results obtained by investigations of the influence of the irritation and the removal of a "caudate body" (udalenije khvostatogo tela) upon conditioned reflexes; B. D. Stefantsov (USSR) explained the influence exercised by the sympathetic nerve system upon the process of compensation of disturbed motive functions; R. Beránek, P. Hnik (Czechoslovakia), P. G. Kostyuk, N. M.

Card 3/4

News in Brief. Symposium on Problems of Peripheral  
and Central Mechanisms of the Motive Activities of  
Animals

SOV/30-59-3-32/61

Shamarina (USSR) gave data on electrophysiological investi-  
gations of problems of the coordination of functions and  
phenomena of plasticity in the medullary region.

Card 4/4

VARGA, M.Ye.; PRESSMAN, Ya.M.

Role of the order of application and force of combined stimuli  
in closing conditioned connections. Zhur.vys.nerv.geiat. 12  
no.1:110-117 Ja-F '62. (MIRA 15:12)

1. Physiological Laboratory, U.S.S.R. Academy of Sciences, Moscow.  
(CONDITIONED RESPONSE)

PRESSMAN, Ya.M., Izv. Biol. nauk

International physiological symposium in Armenia. Vest. AN BSSR  
35 no.2:91 F '65. (MIRA 18:3)



32627  
S/137/61/000/011/106/123  
A060/A101

18 4300

AUTHOR:

Prest, D.K.

TITLE:

Study of the mechanism of corrosion cracking of magnesium alloys

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 52-53, abstract  
111347 (V sb. "Korrozion. rastreskivaniye i khрупkost'", Moscow,  
Mashgiz, 1961, 81 - 90)

TEXT:

Intracrystalline corrosion cracking of Mg alloy grade J1, containing  
(in percent): Al 6.54, Mn 0.30, Zn 1.28, Si 0.05, and Fe 0.0015 in chromate salt  
solution occurs preeminently along the plane of the base of the hexagonal alloy  
lattice. After cooling in a furnace from the temperature of 345°C the fine-granu-  
lar alloy type J1 is susceptible to intercrystalline corrosion cracking in chroma-  
te salt solution. As result of this heat-treatment the Mg<sub>17</sub>Al<sub>12</sub> compound is se-  
parated along the grain boundaries, favoring intercrystalline failure. After  
water-hardening from the temperature 345°C the fine-granular structure does not  
contain Mg<sub>17</sub>Al<sub>12</sub> and the alloy is susceptible to intracrystalline cracking. If the  
grain-size in the alloy is greater than standard, then in the chromate salt solu-  
tion the corrosion cracking of the alloy always has an intracrystalline character

Card 1/2

[Abstr

Card 2/2

CA

19

Laboratory glass filters. Josef Pfrtichy. *Chemie (Prague)*  
- 3, 111-12(1948).—P. gives specifications for the glass  
used in glass filters in the USA, England, Poland, and  
USSR. Frank March

CA

17

The fogging of glass in flames. Josef Pireticky. *Chemie* (Prague) 3, 77-8(1948).—The cloudy surface of glass after it has been in flames is due to the volatilization of alkalis that leave a surface in which the compn. of the glass has been altered; it can be prevented by adding addnl. alkali to the glass while it is heated or by a selection of glass with a compn. which remains stable during the application of heat.  
Frank Marash

1952



PRESTHY, L., JR.

Method for increasing the accuracy of mineral separation according to specific gravity. p. 286

FOLDTANI KOZLONY. BULLETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY.

(Magyar Foldtani Tarsulat) Budapest, Hungary. Vol. 89, No. 3, July/Sept. 1959

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, No. 1, Jan. 1960

Uncl

PRESTO, U.

Asphalt lake. Znan.sila 37 no.3:41 Mr '62.  
(Trinidad--Asphalt)

(MIRA 15:4)

FRUC ENH, . I. ; OWH A, . D.

Apparatus for the determination of the relative damping of (torsional) vibrations. (The energy losses of the apparatus are very low, the vibrations are recorded optically; the described apparatus is useful for investigation of steel behavior in the case of cyclic stresses) - pp. 127 - 133.

A paper contained in the collection "Research work on the strength of steel", edited by I. V. Rudnitskaya, Lashitz, 1971.

PRESVODITELEV, A.A.

Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Polycrystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3975

Author : Presvoditelev, A.A., Smirnov, B.A.

Title : Creep of Aluminum Under Dynamic Loads

Orig Pub : Vestn. Mosk. un-ta, 1956, No 3, 51-55

Abstract : Creep tests of aluminum subjected to additional impact-pulsating loads were carried out in the Scientific Research Institute for Physics of the Moscow State University equipment at medium stresses, 0.62, 0.76, 0.93 and 1.18 kg/mm<sup>2</sup>. The impact-pulsating load, produced by an eccentric mechanism, was applied to the lower jaw, and the static load was applied to the upper one. The deformation was determined photographically using a system of mirrors. Earlier (Predvoditelev, A.A., Smirnov, B.A., Vestn. MGU, 1953, No 8) it was proposed that the creep depends on the speed of variation of the dynamic load at which the deformation of the metal becomes easier, owing to the intensification of the slippage processes at the grains of the metals. The curves obtained for the dynamic creep

Card : 1/2



Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Polycrystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3975

(similar to the curves for the static creep), in the opinion of the authors, confirm the validity of the equation they derived earlier for the dependence of the deformation on the properties of the metal and on the test conditions.

Card : 2/2

RUTKOWSKI, Edward, inż.; PRZYBYL, Andrzej, inż.

The second stage of testing the experimental 3L55 ship engine.  
Biul techn Cegielski 45-49 Special issue '61.

KRYSZEWSKI, Jozef, inż.; PRESZ, Andrzej, inż.

Main ship engines of the RD family. Biul techn Dagielski 5:80-87  
Special issue '61.

PRESZ, Andrzej, mgr inż.

Problem of cooling pistons in low-speed out-of-cylinder high-power  
ship engines. Biul techn Jarielski 5:105-113 Special Issue '61.

KRYSZEWSKI, Jozef, inż.; PRĘSKI, Andrzej, inż.; WĘDŁA, Edward, inż.

Design and construction of the first engine of the 6R3AD76 H.  
Cegielski-Sulzer type. Biul techn Cegielski 5:122-133 Special  
issue '61.

PRESZ, Andrzej, mgr inż.

Directives for designing pistons and selection of the cooling device  
of low-speed high-power cylinder engines for ships. Bilal techn  
Cegielski 6 Specia issues 41-45 '62.

KALLO, Denes; ENGELHARDT, Jozsef; PRESZLER, Imre

Isomerization of n-butenes on aluminum silicate catalyst. I.  
a separation of polymerization and isomerization; determination of  
thermodynamical equilibriums. Magyar kem folyoir 68 no.8:359-366  
Ag '62.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Bu-  
dapest.

PRESZLER, L.

Investigation of the volumetric loss of a centrifugal fan. In English.

p. 255. (ACTA TECHNICA) Vol. 18, no. 3/4, 1957  
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958



Р.А. Гречешникова, И.А.

Hydrogen peroxide bleaching of cotton thread. D. N. Gribodov, J. A. Grechenskaya, S. L. Volotskaya, and N. P. Belluzova. *Trudy Tsvet. Przem. TO*, No. 2, 30-9 (1960). Bleaching of cotton thread is discussed in detail and recommendations for plant process are made; cf. Stakreeva-Kaverzheva, *et al.*, *C.A.* 48, 7896g. Elisabeth Barabash

4

PRETECHTEL, Antonin

Insuring of favorable healing of acute suppurative inflammation of  
the tympanic cavity. Cesk. otolar. 4 no.1:2-12 Feb 55.

(EAR, MIDDLE, diseases  
inflamm. suppurative, ther.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

18

M

\*Characterisation Tests of the Forgeability of Metals and Alloys. A. Portevin, E. Protet, and J. de Lacombe (*Ann. Acad. Sci. Tech. Varsovie*, 1935, 2, 167-198).—There is a close relationship between the forgeability of metals and alloys and their mechanical properties at high temperatures. Measurements have been made of several such properties—including torsion, compression, bending, and tensile tests—of ferrous and non-ferrous alloys at different temperatures. The speed of testing is important, and similar results are obtained by the different methods, which may provide useful information about the optimum conditions for forging operations. The principles involved in the problems are discussed, and, with these in mind, a machine has been designed for carrying out bending tests on notched specimens in different atmospheres. A bibliography of 49 references is given.—N. S.

COMMON ELEMENTS

OPEN MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

3RD AND 4TH ORDERS

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PRETEL-MARTINES, A.

Comparative study of the composition of nucleic acids in cultures of the colon bacteria of various ages. A. S. Spirin, A. N. Belozerskiĭ, and A. Pretel-Martines. (A. N. Bakht Blochem. Inst., Moscow). *Doklady Akad. Nauk S.S.S.R.* 111, 1297-9 (1956).—No differences are found in ribonucleic acid compn. of *Escherichia coli* of various ages. Deoxyribonucleic acid also shows no change from 10 to 30 hrs. of age of the culture. The total content of ribonucleic acid declines from a 10-hr. culture to 30-hr. culture by nearly 60%; at the same time the deoxyribonucleic acid content remains substantially const. C. H. Kesselman

SPIRIN, A.S.; BELOZERSKIY, A.N.; PRETEL'-MARTINES, A.

Comparative studies of the composition of nucleic acids in various age cultures of Bacterium coli. Dokl. AN SSSR 111 no.6:1297-1299 D '56. (MLRA 10:3)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR i Biologo-pochvenny fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova. Predstavleno akademikom A.I. Oparinym. (NUCLEIC ACIDS) (BACILLUS COLI)

PRETEL'-MARTINES, 19.

✓ 6442\* (Russian) Comparative Studies on the Composition  
of the Nucleic Acids in Different Age Cultures of *Bacterium*  
*Coli*. Srovnitel'noe izucheniye sostava nukleonovykh kislot u  
kultur kishechnoi palochki razlichnykh vozrastov. A. S.  
Spirin, A. N. Bolozerskiy, and A. Pretel'-Martines. *Doklady*  
*Akademi Nauk SSSR*, v. 111, Dec. 21, 1975, p. 1297-1299.  
Change in the composition of the ribonucleic and deoxyribo-  
nucleic acids during growth.

100

SPIRIN, A.S., SKAVRONSKAYA, A.G., PRETEL'-MARTINES, A.

Nucleic acid content of *Escherichia coli* during the aging of the culture [with summary in English]. *Mikrobiologiya* 27 no.3:273-275  
My-Je '58 (MIRA 11:9)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Institut mikrobiologii i epidemiologii im. N.F. Gamaleya AMN SSSR.

(NUCLEIC ACIDS, metab.)

*E. Coli*, eff. of aging of culture (Rus))

(*ESCHERICHIC COLI*, metab.)

nucleic acids, eff. of aging of culture (Rus))

POL/27-50-3/4-8/24

3(5), 9(2)

AUTHOR:

Pretka, Zenon

TITLE:

On the Use of Radar Methods in Precipitation Rating and in Cloud and Storm Observation

PERIODICAL:

Przegląd Geofizyczny, 1959, Nr 3-4, pp 247-262 (POL)

ABSTRACT:

The author presents a number of formulas to calculate the range, damping echo intensity and precipitation density in weather Radar operations. Radar observation of the troposphere has shown that wather drops and dielectric heterogeneity of the troposphere cause Radar echoes. Radar may detect such atmospheric phenomena as hail, snow, rain, rain and show clouds, fog, suspended solid particles (smoke, dust), air strata of different temperatures or humidity and other phenomena. The intensity or other properties of the reflected signal (e.g. fluctuation) is an indicator to physical properties of the objects of meteorological observation. The author explains the factors which determine the range of a Radar transmitter and states that damping in the troposphere reduces the range. Most essential causes of damping are rain,

Card 1/4



POL/2-59-3/4-8/24

On the Use of Radar Methods in Precipitation Rating and in Cloud and Storm Observation

snow, fog and water vapor. Damping increases as frequency grows. According to U.S. and British experiences, 5.6 cm is the optimum wavelength for meteorological Radar operations. The dependence of damping on rain intensity and water vapor content in clouds is shown in Fig 1. The author explains physical principles of Radar echo from precipitation particles, which act as dipoles twice the radius of the particles. Furtheron, the dependency of the effective reflection area on the shape and constitution of the particles is shown in Fig 2. The effective reflection area is different for water drops, ice particles, snow flakes, etc. Echo intensity thus depends on the distance square, damping, precipitation density and precipitation rate. The intensity of echo signals reflected by rain and clouds is shown in Fig 4. Measurements of the precipitation rate are based on the experience that there is a relationship between the mean density of rain droplets of determined size and the rain intensity as shown in Fig 6. The intensity of echo signals is a function of the precipitation density, while the precipitation density is a function of the pre-

Card 2/4



POL/27-59-3/4-8/24

On the Use of Radar Methods in Precipitation Rating and in Cloud and Storm Observation

precipitation rate. To eliminate errors due to damping, the dependence of damping in decibels on the wavelength in centimeters and precipitation rate in millimeters per hour is shown in Fig 8. Other errors may be due to non-vertical rainfall, condensation or vaporization as the rain descends, and should be avoided by low-angle observation of rain formations close to the ground. There are two ways of determining the intensity of extensive rains: a) measuring the intensity on small regions and integrating the values for the whole observed area, and b) drawing isolines of echo signals in the precipitation area. The second method is based on the empirical knowledge that echo isolines closely correspond to the curves of equal rain intensity. At the close of the article the author explains the observation of rain and no-rain clouds. Observation of rain clouds is conducted by means of 3-10 cm wavelengths, that of no-rain clouds by means of wavelengths less than 1 cm. Radar observation of rain clouds will supply information on the situation in space, shape, progress in time and space and the nature of precipitate formation.

Card 3/4



POL/27-59-3/4-6/24

On the Use of Radar Methods in Precipitation Rating and in Cloud and Storm Observation

Different types of scans must be used to receive differentiated information. Pictures of clouds, storms and plane progress of clouds are provided by A type scans, while distance-altitude scans are used to provide data on the vertical progress of clouds. Both types of scans have brightness modulation which indicates the intensity of echo signals. The author points out the importance of Radar observation of rains, storms and hurricanes in weather forecasts. There are 10 diagrams, 1 table, 7 photographs and 18 references, 4 of which are Polish, 7 Russian, 1 French, 3 German and 3 English.

ASSOCIATION: Katedra hydrauliki i hydrologii P.W. (Chair of Hydraulics and Hydrology of the P.W.)

SUBMITTED: April 10, 1959

Card 4/4



PRETL, J., inz.

Map of Czechoslovak agricultural lands exposed to erosion by  
wind. Vodni hosp 13 no.5:165 '63.

1. Katedra hydromelioraci, Ceske vysoke uceni technicke, Praha.

PRETORIAN, D., ing.; MARCUS, I., ing.; DRAGOS, Z., ing. SOFRONIE, M., ing.

Producing highly resistant ordinary cast iron with lamellar  
graphite. Metalurgia constr mas 15 no.8:501-503.Ag '63.

ZAMFIR, K.; PRETORIAN, M.; IVENESKU, A. [Ivenescu, A.]

Pathogenesis of a shortened P-R interval with deformation of the ventricular complex on the electrocardiogram. Terap.arkh. 31 no.4:70-78 Ap '59. (MIRA 14:5)

1. Iz pervogo terapevticheskogo otdeleniya Tsentral'nogo voyennogo gosspitalya, Bukharest).

(ELECTROCARDIOGRAPHY)

KONDI, V., dr.; GRIGORIU, Gh., dr.; IACOBESCU, A., dr.; BALAN, St., dr.;  
PRETORIAN, M., dr.; MITRICA, N., chim.

The immunochemical study of macroglobulinemias in connection with  
a case of Waldenström's disease. Med. intern. 14 no.10:1225-1235 0 '62.

1. Lucrare efectuata la Centrul de hematologie, Bucuresti.  
(MACROGLOBULINEMIA) (IMMUNOELECTROPHORESIS) (MULTIPLE MYELOMA)  
(DIAGNOSIS, DIFFERENTIAL)

RUMANIA/Human and Animal Physiology (Normal and Pathological). T-5  
Blood Circulation. Blood Vessels.

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50860

Author : Fagarasanu, I., Bucur, A., Pretorian, R., Aloman, D.,  
Popescu, Gh.

Inst : -

Title : Acute Thromboembolism and Chronic Thromboses in Aorta  
Bifurcation.

Orig Pub : Chirurgia, 1957, 6, No 3, 351-364.

Abstract : No abstract.

Card 1/1

- 56 -



PRETORIUS, J.P.G.

Bumps in the gold mines of the Union of South Africa. Przegl techn  
84 no.14:4 7 Ap '63.

PRETRO, G.A., inzh.

Plan for the over-all utilization of the Zeya River. Gidr. stroi.  
27 no.4:1-2 Ap '58; (MIRA 11:9)  
(Zeya Valley--Water resources development)

€

PRETRO, G.A., dotsent

Special features of the calculation of the overflow front of water-power developments which include buildings of hydroelectric power stations. Izv. vys. ucheb. zav.; energ. 6 no.2:97-103 F '63. (MIRA 16:3)

1. Leningradskiy politekhnicheskoy institut imeni M.I.Kalinina.  
Predstavlena kafedroy ispol'zovaniya vodnoy energii.  
(Hydraulic structures) (Hydroelectric power stations)

PRETRO, G.A., inzh.

Economic efficiency of integrated hydroelectric power stations  
having bottom-type spillways. Gidr. stroi. 27 no.5:13-17 My '58.  
(MIRA 11:5)

(Hydroelectric power stations)  
(Spillways)

PRETRO, G.A.; DMITRIYEV, G.V.

Basic principles for calculating the overall utilization of large  
streams. Trudy Lengidroproekta no.1:115-120 '64.

(MIRA 18:10)

PRETRO, German Aleksandrovich; MAR'YANSKIY, L.F., red.; BORUNOV, N.I., tekhn.  
red.

[Special types of hydroelectric power stations] Spetsial'nye tipy  
gidroelektrostantsii. Moskva, Gos. energ. izd-vo, 1960. 69 p.  
(MIRA 14:10)

(Hydroelectric power stations)

PRETRO, G.A.

Special types of powerhouses for hydroelectric power stations.  
Trudy LPI no.208:293-316 '60. (MIRA 13:9)  
(Hydroelectric power stations)

SOV/19-58-6-176/685

AUTHORS: Rodshteyn, L.A., Obratsov, V.A., Bocharov, V.Ye., and  
Prebro, N.N.

TITLE: An Accelerating Contactor with Electromagnetic Time Lag  
(Kontaktor uskoreniya s elektromagnitnoy vyderzhkoy vremeni)

PERIODICAL: Byulleten' izobrenteniy, 1958, Nr 6, p 42 (USSR)

ABSTRACT: Class 21c, 58<sup>01</sup>. Nr 113998 (565313 of 17 Jan 57). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A contactor as specified in the title, with a normally closed main contact and a single magnetic system; with a throw-over spring compensating part of the pull on the armature; with a solid bent magnetic circuit with a rectangular back; without any mechanical connection between the armature and the main contact when the main contact is in the closed position.

Card 1/1



PRETSCH, ERNO

HUNGARY/Chemical Technology. Chemical Products and Their  
Application. Cellulose and Its Production.  
Paper.

H-33

Abs Jour: Ref. Zhur-Khimiya, No 11, 1958, 38338.

Author : Pretschn Erno

Inst : Not given.

Title : Paper with the Application of Synthetic Resins

Orig Pub: Papiripar, 1957, 1 , No 3-4, 139.

Abstract: Described briefly are various technological trends in  
pilotplant experiments on the production of paper for  
paper money, and of photopaper, with the application  
of dacron, nylon, orlon, et cetera.

Card : 1/1

PRETTENHOFFER, Imre

Experimental data on deep plowing of noncalcareous alkali lands.  
Agrokem talajtan 13 no.1/2:51-72 J1 '64.

1. Agricultural Experimental Institute of the Southern Alföld,  
Szeged.

PRETTENHOFFER, Imre

Experimental results in the subsoiling of alkali lands in the  
Tiszentul, 1957-1961. III. Agrokem talajtan 12 no.1:87-98  
Mr '63.

1. Dólalfoldi Mezogazdasági Kiserleti Intezet, Szeged.

DERKACH, F.A.; PREVARSKIY, A.P. [Prevars'kyi, A.P.], student IV kursa

The chemistry laboratory of M.V. Lomonosov. Nauk. zap. L'viv. un.  
13:137-145 '49. (MIRA 12:10)

1. Kafedra neorganicheskoy khimii L'vovskogo gosudarstvennogo  
universiteta imeni I. Franko.  
(Lomonosov, Mikhail Vasilevich, 1711-1765)

*PREVARSKIY, A.P.*

USSR /Chemical Technology. Chemical Products  
and Their Application

I-14

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31754

Author : Prevarskiy A.P.

Title : Thermal Stability of Sulfonated Coal

Orig Pub: Elektr. stantsii, 1956, No 7, 54

Abstract: For the softening of a low-grade condensate  
(total hardness 0.01-0.9, alkalinity 0.015-0.9  
mg-equivalent/liter, salt content 5-100 mg/liter)  
at 95-100°, use was made of Na-cationite fil-  
ters containing sulfonated coal (I). A 14 month  
period of operation showed that residual hardness  
of the treated water (with a specific expenditure

Card 1/2

USSR /Chemical Technology. Chemical Products  
and Their Application

I-14

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31754

of NaCl of 200 g/g-equivalent) is of 2-4  $\mu$   
g-equivalent/liter, absorption capacity of I,  
up to the failure point, is of 270-340 g-equiva-  
lent/m<sup>3</sup>. Annual mechanical wear of I is up to  
28%.

Card 2/2

MESHCHERINOVA, O.N., kand. tekhn. nauk; PREYGERZON, Sh.I., kand. tekhn. nauk  
SHEVCHENKO, R.G., inzh.

Replacing cemented 20KhNZA and 12KhNZA steel with steel containing  
boron. Trakt. i sel'khoz mash. no. 12:40-42 D '59. (MIRA 13:3)

(Steel) (Tractors)

PRETNAR, J.

Yugoslavia (430)

Technology-Periodicals

Our professional and home handicrafts. p. 584.  
NOVA PROIZVODNJA. (Slovenian Uprava za napredek  
v proizvodnji) Ljubljana. (Bimonthly technolog-  
ical journal issued by the Administration for  
Technological Advancement, including the decimal  
classification of the articles; with English sum-  
maries). Vol. 3, No. 6, Dec. 1952.

East European Accessions List. Library of Congress  
Vol. 2, No. 6, June 1953. Unclassified.



PRETNAR, S.

Yugoslavia (430)

Technology

The inventor's position in socialistic Yugoslavia. p. 234, Nova Proizvodnja,  
Vol. 2, no. 2/4, August 1951.

East European Accessions List. Library of Congress, Vol. 2, No. 3, March 1953.  
UNCLASSIFIED.

PRETNAR, S.

Yugoslavia (430)

Technology

Some critical remarks on the law concerning inventions and technical improvements, and its application. p. 332. Nova Proizvodnja, Vol. 2, no. 5, October 1951.

East European Accessions List, Library of Congress, Vol. 2, No. 3, March 1953.  
UNCLASSIFIED.

PRETNAR, S.

Yugoslavia (430)

General - Serials

An essay on contemporary bourgeois criticism of capitalism. p. 8. NASI  
RAZGLEDI. (Tiskovni konzorcij "Ljudske pravice") Ljubljana. (Illustrated fortnightly on political, economic, and cultural problems). Vol. 1, no. 10, July 12, 1952.

East European Accessions List. Library of Congress, Vol. 1, no. 13, November 1952. UNCLASSIFIED.

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