

L 60041-65 EWT(m)/EPF(c)/EPF(n)-2/EWP(j) PC-4/Pr-1/Pt-3 GG/JA/JEM

ACCESSION NR: AP5018034

DR/0191/65/000/007/0007/0013  
678.742.3:621.039,83 678.021.122

AUTHOR: Nechitaylo, N. A.; Sanin, P. I.; Gol'denberg, A. I.; Polak, L. S.

TITLE: Effect of stabilizers on irradiated polypropylene

SOURCE: Plasticheskiye massy, no. 7, 1965, 7-13

TOPIC TAGS: polypropylene, ionizing radiation, oxidation inhibitor, phenyl-naphthylamine, ionol, polymer stabilizer, gel formation

ABSTRACT: Polypropylene (MW~224,000) was irradiated with a  $Co^{60}$  source in ampoules at about  $10^{-3}$  mm Hg. The stabilizers chosen were phenyl- $\beta$ -naphthylamine (Neozone D), 2-mercaptobenzimidazole, and barium di-octadecylidithiophosphate; for comparison, experiments were made with ionol. Thermograms were recorded automatically with a Kurnakov pyrometer, and the temperatures of the thermal effects observed were studied in relation to the irradiation dose and the content of stabilizers. The endothermic effects on the heating curves correspond to the melting of the polymer samples, and the exothermic ones to the reactions of oxidation of polypropylene. The degree of oxidation was determined by infrared spectroscopy from the content of carbonyl compounds. On the basis

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of the quantity of carbonyl groups formed in the various experiments, the most effective oxidation inhibitors are phenyl- $\beta$ -naphthylamine and ionol. The intrinsic viscosity of the samples was studied as a function of the irradiation dose. The protection coefficients, energy transfer factors, and intrinsic viscosities of polypropylene irradiated in air were determined. The number of breaks in the primary molecular chain caused by the ionizing radiation was correlated with the reciprocal molecular weight. The addition of 2% ionol is sufficient to prevent cross-linking in the polymer at a dose of 70 mr. At 160 and 250 mr, 5 and 8% ionol, respectively, is needed to prevent gel formation. "The authors thank M. A. Dzyubin for considerable assistance in the work." Orig. art. has: 8 figures, 6 tables, and 2 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: CC, NP

NO REF SOV: 006

OTHER: 010

*llc*  
Card 2/2

SIROTA, A.G.; RYABIKOV, Ye.P.; GOL'DENBERG, A.L.; IL'CHENKO, P.A.;  
CHOPKO, L.F.

Modification of the structure and properties of polyolefins.  
Ethylene copolymers with higher  $\alpha$ -olefins. Plast. massy  
no.11:5-8 '65. (MIRA 18:12)

GAIKONOV, A.V.; GOL'DENBERG, A.L.; LEVIGOR'YEV, B.P.; OBLON, S.A.; PANERATONA,  
T.B.; POTEVIN, K.I.

Induced synchrotron radiation of electrons in hollow resonators.  
Dokl. v od. Zhur. eksper. i teoret. fiz. 2 no.9:430-435 N 165.

(MIRA 18:12)

I. Gor'kovskiy naučno-issledovatel'skiy radiofizicheskiy institut.  
Submitted September 1965.

L 20371-66 EWT(m)/ENP(j)/T/ETC(m)-6 WJ/RM

ACC NR: AP6006535

(A)

SOURCE CODE: UR/0191/65/000/011/0005/0008

AUTHORS: Sirota, A. G.; Ryabikov, Ye. P.; Gol'denberg, A. L.; Il'chenko, P. A.;  
Chopko, L. F.

ORG: none

TITLE: Modification of the structure and properties of polyolefins. Copolymers  
of ethylene with higher  $\alpha$ -olefins

SOURCE: <sup>1</sup>Plasticheskiye massy, no. 11, 1965, 5-8

TOPIC TAGS: polymer, crystalline polymer, conjugated polymer, catalytic  
polymerization, catalyst, organic synthetic process, copolymer, ethylene, olefin,  
polymer structure

ABSTRACT: The synthesis of ethylene-higher  $\alpha$ -olefin copolymers in the presence  
of an oxychromic catalyst was studied. The catalyst was prepared after Z. V.  
Arkhipova, A. S. Semenova, A. G. Sirota, A. L. Gol'denberg, and P. A. Il'chenko  
(Plast. massy, No. 2, 4, 1960), and the higher  $\alpha$ -olefins were synthesized after  
A. L. Gol'denberg and S. G. Lyubetskiy (Vysokomolek. soyud., 5, No. 6, 905, 1963).  
The reaction was carried out in an autoclave at a temperature of 80--100C. The  
degree of crystallinity, modulus of elasticity, density, viscosity in decaline at

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UDC: 678.74-13.01:539.2

L 20371-66

ACC NR: AP6006535

3

135C, melting point, and the number of CH<sub>3</sub> groups per 1000 atoms of C of the synthesized polymers were determined. The experimental results are presented in graphs and tables (see Fig. 1). The degree of crystallinity and the extent of

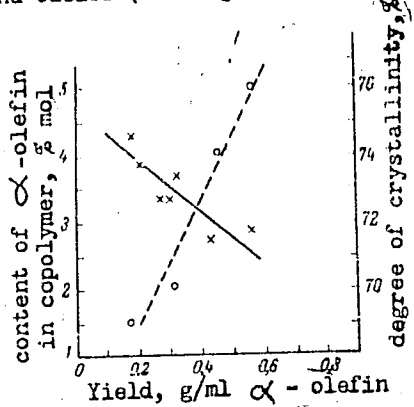


Fig. 1. Composition (—) and degree of crystallinity (---) of ethylene-alpha-olefin copolymer as a function of the reaction yield.

branching were determined by x-ray and IR spectra respectively. It was found that the ethylene-higher alpha-olefins have properties intermediate between those of medium and high pressure polyethylene, B. I. Vol and N. V. Sarana participated in Card 2/3

L 20371-66  
ACC NR: AP6006535

4

the experimental work. Thanks are given to B. A. Krentsel', K. P. Lavrovskiy,  
A. M. Brodskiy, and A. N. Rumyantsev for their valuable advice. (orig. art. has:  
2 tables and 5 graphs.

SUB CODE: 0711/      SUBM DATE: none/      ORIG REF: 009/      OTH REF: 009

ACC NR: AP6027284

SOURCE CODE: UR/0191/66/000/008/0058/0060

AUTHOR: Sirota, A. G.; Gal'denberg, A. L.; Il'chanko, P. A.; Ryabikov, Ye. P.;  
Pedotov, B. G.; Karasova, M. G.; Zyuzina, L. I.; Kharitonova, O. K.

ORG: none

TITLE: Modification of the structure and properties of polyolefins. Effect of radiation on ethylene-propylene copolymers

SCHEM: Plasticheskiye massy, no. 8, 1966, 52-60

TOPIC TAGS: irradiation effect, electron radiation, copolymer, ethylene, propylene,  
reaktsiya shchewitskoy

ABSTRACT: The effect of irradiation with fast electrons (2.0-2.2 Mrad) on the structure and properties of ethylene-propylene copolymers (EPC) was studied on films of these copolymers (50  $\mu$  thick) containing 7 mole % propylene (EPC-7) and stabilized with the heat and light stabilizers P-29 phosphite and 2-hydroxy-4-allylphenylbenzene. The irradiation effect was determined from the solubility of the films, given by the content of the soluble sol fraction extracted with boiling *o*-xylene. The cross-linking produced by the electrons decreases the crystallinity of the copolymer; the degree of crystallinity, determined by x-ray diffraction, decreased with increasing irradiation dose, but there was no appreciable change in the fusion temperature. A study of the change in physicomaterial characteristics showed the specific elongation at rupture to decrease (particularly at 50 Mrad) and the ultimate tensile strength to fall off

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SEC: 673.742.2-134.23.019.0:539.124



L 4508105

ACC NR: AP6027284

slightly with increasing dose. The most significant change occurs above the melting range of the film: at 135°C, the initial film has no strength of extension at all, whereas the irradiated film has a strength of extension of about 10 kg/cm<sup>2</sup>. The degree of unsaturation of the copolymer increases substantially with increasing dose up to 100 Mrad, and approaches a constant value with further increase in dose. The main type of unsaturation are the trans-vinylene groups ( $\text{>C=C<}$ ). The irradiated copolymer samples oxidize rapidly in air, and IR spectra show an increase in the concentration of carbonyl groups. In conclusion, authors thank A. V. Lysov, S. A. Subbotkin, A. S. Andreyev and A. N. Khoryakov for their assistance in the irradiation of the samples. Orig. art. has: 5 figures.

SUB CODE: 07,1/ORIG REF: 003/ OTH REF: 005

Card 2/2 vrb

LYUBIMOV, N.N., prof.; ALLAKHVERDYAN, D.A., dotsent; STAM, V.M., dotsent;  
GOL'DENBERG, A.M., dotsent; VINOKUR, R.D., dotsent; AZARKH, M.R.,  
dotsent; SHER, I.D., prof.; RIVKIN, B.B., dotsent; AEROSKIN, A.A.,  
dotsent; DYMSHITS, I.A., dotsent [deceased]; KON'SHIN, F.V., prof.;  
IPATOV, P.F., dotsent; NIKOL'SKIY, P.S., kand.ekon.nauk; ROSHCINA, L.,  
red.; TELEGINA, T., tekhn.red.

[Finance in the U.S.S.R.; a collection] Finansy SSSR. Avtorskii  
kollektiv pod rukovodstvom D.A.Allakhverdiana i N.N.Liubimova.  
Moskva, Gosfinizdat, 1958. 391 p. (MIRA 12:4)

1. Moskovskiy finansovyy institut (for all except Roshchina, Telegina).  
(Finance)

PERVYAKOVA, L.M.; GOL'DENBERG, A.M.; TITOVA, V.N. (Simferopol')

Use of the PMS small output conveying unit by the Simferopol Factory  
No.2. Shvein.prom. no.5:30-31 S-0 '60. (MIRA 13:12)  
(Assembly-line methods) (Simferopol--Clothing industry)

SECRET

1. The following information was obtained from a source who has provided reliable information in the past and is being provided to you for your information.

2. The source has provided information that is of a confidential nature and is being provided to you for your information.

3. The source has provided information that is of a confidential nature and is being provided to you for your information.

GOL'DENBERG, A.Ye.; SEGLEYAROVA, N.T.; KU.YACHAYA, D.Ye.; KLETSKINA, K.I.;  
BISKUBOVA, Z.O.; BAYRUCOV, M.M.; SHUSTER, D.Ye.; TOLL', P.Kh.

Prophylactic examination of the population for tuberculosis. Soy.  
med. 25 no. 7:71-82 by 1961. (PMA 15:4)

1. Iz organizatsionno-metodicheskogo sektora (rukovoditel' - kand.  
med.nauk A.Ye.Gol'denberg) Khar'kovskogo in-tituta tuberkuleza i  
oblastnykh protivotuberkuleznykh dispanserov: Khar'kovskogo  
(glavnyy vrach N.T.Seglyarova), Dnepropetrovskogo (glavnyy vrach  
K.I.Kletskina), Zaporozhskogo (glavnyy vrach M.M.Bayrucov) i  
Sevastopol'skogo gorodskogo dispansera (glavnyy vrach P.Kh.Toll').  
(TUBERCULOSIS--PREVENTION) (MEDICAL SCREENING)

SECRET

1. The following information was obtained from a source who has provided reliable information in the past:

SECRET

GOL DENBERG, A.Z., kandidat meditsinskikh nauk; SUKHOVA, M.H., kandidat  
biologicheskikh nauk

Prevention of acute epidemic conjunctivitis. Sov.med. no.3:65-68  
Mr 155. (MLRA 8:5)

1. Iz Nauchno-issledovatel'skogo instituta glaznykh bolezney imeni  
Gel'mgol'tsa (dir. -chlen-korrespondent Akademii meditsinskikh  
nauk SSSR prof. V.N.Arkhangel'skiy) i iz Instituta obshchey i kom-  
munal'noy gigiyeny Akademii meditsinskikh nauk SSSR (dir. -deyst-  
vitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. A.N.Sysin).  
(CONJUNCTIVITIS, prev. and control)

USSR / Virology. Viruses of Man and Animals. Chlamydozoa.

E-2

Abs Jour : Ref Zhur - Biologiya, No 22, 1956, No. 29173

Author : Gol'denberg, A. Z.

Inst : State Scientific Research Institute for Eye Diseases

Title : Development of a Method for Preparation of Prowazek's Bodies in Trachoma for Electron Microscopy

Orig Pub : Uch. zap. i inform. myetel. matyoriuly. Gos. n.-i in-t glazn. boleyeznyey, 1957, No 5, 17-25

Abstract : The author attempted to develop a method for electron-microscopic study of Prowazek's bodies in trachoma, not resorting to superfine sections. 3 methods were studied: the washing off of the scraping of conjunctiva epithelium in 0.1 percent sol'n of formalin, "dual pipette dialysis," and replicas of the unfixed conjunctiva epithelium scraping. Not in one case was it possible to obtain satisfactory preparations.  
-- S. B. Stefanov

Card 1/1



ROSLAVTSEV, A.V., otv.red.; GOL'DENBERG, A.Z., red.; FOFOVA, M.,  
tekhn.red.

[Proceedings of the All-Russian Conference of Ophthalmologists. Kuibyshev, 1956] Trudy Vserossiiskogo soveshchaniia glaznykh vrachei. Otvet.red. A.V.Roslavtsev. Saransk, Gos.nauchno-issl.in-t glaznykh boleznei im. Gel'mgol'tsa, 1958. 526 p. (MIRA 13:1)

1. Vserossiyskoye soveshchaniye glaznykh vrachey. Kuybyshev, 1956. 2. Direktor Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh bolezney im. Gel'mgol'tsa (for Roslavytsev).  
(OPHTHALMOLOGY--CONGRESSES)

GOLDENBERG, A.Z.

Information on the activities of the governing presidium of the  
All-Union Society of Ophthalmologists during the first half of  
1958. Vest.oft. 72 no.2:56 Apr-May '59. (MIRA 12:4)  
(OPHTHALMOLOGICAL SOCIETIES)

SHATKIN, A.A.; GOL'DENBERG, A.Z.

Isolation of the pathogen of inclusion blennorrhoea in newborn infants. Vop. virus. & no.1 :72-76 Ja-F'63.

(MIRA 16:6)

1. Institut virusologii imeni D.I. Ivanovskogo AN SSSR, Institut glaznykh bolezney imeni Gel'mgol'tsa Ministerstva zdravookhrameniya RSFSR, Moskva.

(VIRUS DISEASES) (CONJUNCTIVITIS)  
(INFANTS (NEWBORN)) ---DISEASES)

GIL'DENBERG, B.Ya., metol'nik

Section "Organization of Production and Industrial Management." Inform. biul. "MIRA" no. 70-80, 11. 1981. (MIRA 16:8)

1. Pavilion "Bash. ekonomicheskoye" na vystavke sostizheniy narodnogo khozyaystva.

Organization, N. A., 1964.

Organization and mechanization of engineering and management work.  
West. Washington. Ateneo. Ateneo. (NBA 19:5)

The following information was obtained from the files of the Central Intelligence Agency concerning the activities of the Soviet KGB in the United States during the period from 1955 to 1965. This information was obtained from a report dated September 19, 1965, by the Central Intelligence Agency, Office of Primary Operations, and is being released to you for your information.

It is noted that the KGB has been active in the United States since the late 1940s. The KGB has been engaged in a variety of activities, including the recruitment of agents, the collection of intelligence, and the dissemination of propaganda. The KGB has also been engaged in a variety of activities aimed at the subversion of the United States government and the United States population.

The KGB has been particularly active in the area of recruitment of agents. The KGB has recruited a large number of agents in the United States, and these agents have been engaged in a variety of activities, including the collection of intelligence and the dissemination of propaganda. The KGB has also been engaged in a variety of activities aimed at the subversion of the United States government and the United States population.

The KGB has been particularly active in the area of the collection of intelligence. The KGB has collected a large amount of intelligence on the United States government and the United States population. This intelligence has been used for a variety of purposes, including the planning of operations and the dissemination of propaganda.

The KGB has also been engaged in a variety of activities aimed at the subversion of the United States government and the United States population. These activities include the dissemination of propaganda, the recruitment of agents, and the collection of intelligence.

The KGB has been particularly active in the area of the dissemination of propaganda. The KGB has disseminated a large amount of propaganda in the United States, and this propaganda has been aimed at the subversion of the United States government and the United States population.

The KGB has also been engaged in a variety of activities aimed at the recruitment of agents. The KGB has recruited a large number of agents in the United States, and these agents have been engaged in a variety of activities, including the collection of intelligence and the dissemination of propaganda.

The KGB has also been engaged in a variety of activities aimed at the collection of intelligence. The KGB has collected a large amount of intelligence on the United States government and the United States population. This intelligence has been used for a variety of purposes, including the planning of operations and the dissemination of propaganda.

The KGB has also been engaged in a variety of activities aimed at the subversion of the United States government and the United States population. These activities include the dissemination of propaganda, the recruitment of agents, and the collection of intelligence.

CONFIDENTIAL - SECURITY INFORMATION

1. The following information was obtained from a source who has provided reliable information in the past.

2. The source has provided reliable information in the past.

GOLDENBERG, C.

A device for the even distribution of cement in the stabilization of foundations. Rev transport 8 no.10:458-459 '61.



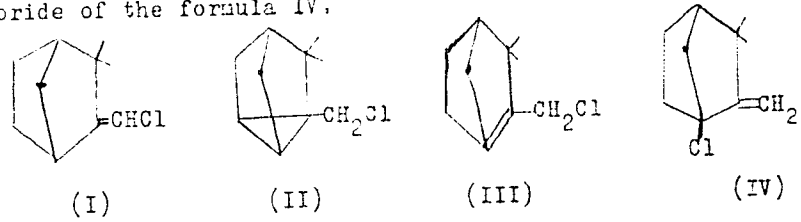
79-28-4-66/60

AUTHORS: Chiurdoglu, G., Goldenberg, Ch., Geeraerts, J.

TITLE: Letter to the Editor (Pis'mo v redaktsiyu)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 1120-1121 (USSR)

ABSTRACT: The Belgian authors of this letter oppose the conception of D. V. Tishchenko (Ref 2), who says that in the chlorination of camphene also the chloride of the formula III is formed beside the chlorides of the formulae I and II. The authors proved that the compound III cannot be formed, but a chloride of the formula IV.



There are 10 references, 1 of which is Soviet.

Letter to the Editor

79-28-4-60/60

ASSOCIATION: Laboratoriya obshchey khimii II fakul'teta nauk, Bryussel'  
(Brussels Laboratory of General Chemistry of the II<sup>nd</sup> Department  
of Sciences)

SUBMITTED: July 28, 1957

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USSR-DC-60,360

3

Journal of Applied Chemistry  
June 1954  
Industrial Inorganic Chemistry

Liquid inoculation of cast iron. N. M. Varkolomeev and D. M. Gol'denberg (*Liternoe Prosvetlenie*, 1953, J. No. 3, 14). --In the method described for inoculating cast iron in the liquid state, an alloy containing C 3.5, Si 9, and Mn 0.7% is prepared from 75% ferrosilicon and liquid grey cast iron and added to a ladle containing white iron at 1300-1350°. 220 kg of alloy are sufficient to inoculate 5500 kg. of iron, the assimilation of Si being 35%. The microstructure of the product is homogeneous, consisting of a basic pearlitic or sorbitic-pearlitic mass having evenly distributed inclusions of graphite in the form of small bent platelets.

J. Iron Steel Inst. (R.U.C.)

# GOLDENBERG, D.M.

USSR/Miscellaneous - Technology

**Card** 1/1 : Pub. 61 - 16/23

**Authors** : Varfolomeyev, N. M., and Gol'denberg, D. M.

**Title** : Simplified method for the calculation of furnace batches

**Periodical** : Lit. proizv. 3, 23-29, May-June 1954

**Abstract** : Simplified calculations of foundry-furnace charges (batches) are tabulated. Batch calculation, according to this table, is realized not only with regard to the chemical composition but also with regard to the elements composing the batch. Table.

**Institution** : ...

**Submitted** : ...

GUL'DENB. P.G. 1. , instruktor metodist

Pay more attention to practical work. In pul. 1. no. 7-20-4.  
Ji - 61. (SHEA 14 B)

1. Moskovskiy avtomobilizatsiya.  
(Automobile delivery)

PAVLOV, A., starshiy metodist; GOL'DENBERG, E., starshiy metodist

Self-financing; how to organize it? Za rul. 20 no.9:26-27 S  
'62. (MIRA 15:0)

1. Moskovskiy gorodskoy avtomotoklub.  
(Motor vehicles--Societies, etc.)

GETMANOV, M.; GOLDENBERG, E.; PAVLOV, A.; MURAVYEV, I. A.,  
spets. red.; STEKHACHEV, A. I., red.

[Collection of problems on traffic regulations for  
automotive transportation] Sbornik zadach po pravilam  
dvizheniia avtotransporta. Moskva, Izd-vo MVD SSSR,  
1965. 351 p.      OIRA 12477

GOLLEBERG, F.

(HULNIK, Vol. 20, No. 11, Nov. 1953, Katowice, Poland)  
"Production planning in Soviet steel metallurgy." p. 432

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954



3

AUTHORS: Gol'denberg, G., Skvortsova, G. SOV/55-58-5-34/34

TITLE: On the Fulfillment of the Work Provided by the Program of the International Geophysical Year by the Scientists of the Moscow State University (O vypolnenii uchenymi MGU rabot po programme IGG)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, astronomii, fiziki, khimii , 1958, Nr 5, pp 215 - 216 (USSR)

ABSTRACT: During the international geophysical year the Moscow university participates in the investigation of 22 themes. In this connection the following details are given. Professor A.Kh. Khrgian investigates the atmospherical ozone. For observing the ionosphere there are established observation stations in Moscow and on the Dikson island. The station on Dikson was established by L.K. Nerovnya and is guided by A.G.Vyal'tsev and P.I. Astakhov . Docent V.D. Gusev investigates the inhomogeneous structure and motions of the ionosphere by measurements in three points (university, Chashnikovo - 43 kilometers from the university, Krasnaya Pakhra - 29 kilometers from the university). Professor A.I. Lebedinskiy investigates

Card 1/3

107/55-56-5-3A/3A

On the Fulfillment of the Work Provided by the Program of the International Geophysical Year by the Scientists of the Moscow State University

the aurora borealis. Yu.N. Lipskiy (senior scientific assistant) and Yu.B. Pskovskiy (junior scientific assistant) investigate the polarization of the daylight. Docent N.N. Pariyskiy investigates the weak luminescence of very high atmospheric gases. Professor A.G. Kolesnikov investigates the turbulence structure of the oceans. Several assistants not mentioned participate in expeditions on several expedition ships. The following scientists participate in the investigations of cosmic radiation: Professor S.N. Vernov, corresponding member, Academy of Sciences of the USSR; N.L. Grigorov, doctor of physical-mathematical sciences; and M.M. Dubrovin (senior laboratory assistant). Seismological measurements are carried out under the direction of Professor Ye.F. Savarenskiy at numerous stationary and specially temporarily established stations (among others one in Shanghai and one in Canton). Spectroheliographic observations of the sun are carried out at the Astronomical Institute imeni P.K. Shternberg under guidance of Docent G.F. Sitnik. Determinations of time and longitudes are carried out at the Longitude Station of the Astronomical Institute under

Card 2/3

On the Fulfillment of the Work Provided by the Program SOV/55-58-5-34/34  
of the International Geophysical Year by the Scientists of the Moscow  
State University

guidance of P.I. Bakulin, senior scientific assistant. At the  
latitude station there are observed motions of earth pole by  
Professor K.A. Kulikov. I.S. Shklovskiy, senior scientific  
assistant, and Professor Ye.Ya. Bugoslavskaya carry out visual  
observations of the artificial satellites of the earth at the  
Sputnik Station of the Astronomical Institute.

Card 3/3

USCOMM-DC-60,646

SOV 124 58 11 12011

Translation from: Referativnyy zhurnal. Mekhanika, 1958, Nr 11, p 12 (USSR)

AUTHOR: Gol'denberg, G.

TITLE: Celebration of Honor of Member of the Academy of Sciences Leonid Ivanovich Sedov. (Quest' o chlenakh akademika Leona Ivanovicha Sedova)

PERIODICAL: Vestn' Mosk. un-ta. Ser. matem. i fiz. i astronom. i fiz. khimii, 1957, Nr 4, pp 251-255

ABSTRACT: Bibliographic entry

AUTHORS: Gol'denberg, G., Skvortsova, G. SOV/55-58-1-33/33

TITLE: At the Chair of Highly Molecular Alloys (Na kafedre vysokomolekul-yarnykh soyedineniy)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya fiziko-matematicheskikh i yestestvennykh nauk, 1958, Nr 1, pp 237-239 (USSR)

ABSTRACT: The academician V.A.Kargin holds the chair founded two years ago. The following scientific works were carried out at the chair: The academician V.A.Kargin, the junior scientific co-worker (mladshiy nauchnyy sotrudnik) V.A.Kabanov and the diplomant I.Yu.Marchenko developed a method for the catalytic stereospecific synthesis of polystyrene. The junior scientific co-worker V.A.Kabanov and the diplomant A.A.Petrolova investigated the deformation of crystalline films of polyethylenterephthalat. The junior scientific co-worker N.A.Plata and the diplomant I.I.Konoreva activated with ozone a starch suspension in the water, acted with it onto styrol and obtained a good amulsion with highly elastic deformation properties. N.A.Plata and L.Dudnik obtained the polybicycloheptadien with a melting temperature of 350° C.

At the Chair of Highly Molecular Alloys

SOV/55-58-1-33/33

Structural investigations were carried out by N.F. Fakeyev, Kh. Vergin, A.I. Kitaygorodskiy, G.L. Slonimskiy, S.Ya. Mirlina, and Yu. Nagornaya.

Some investigations are carried out in cooperation with the following institutes: Physical-Chemical Institute imeni L.Ya. Karpov, Institute of Synthetic Fiber, Petroleum Institute, Film and Photo Institute, Chemical-Pharmaceutical Institute.

Card 2/2

USCOMM-DC-60973

GOL'DENBERG, G.D. [Gol'denberg, H.H.]

Use of Cotton knitting machines for the manufacture of cotton  
mercerized and plated hosiery with unlooped round heel. Leh.  
prom. no. 2:43-44. Ap-Jo'64 (MIRA 17:7)

KLIMENKO, V.G.; GOL'DENBERG, G.G.

Nitrogen-containing substances in sorghum (*Andropogon sorghum* Brot.).  
Biokhim.zerna no.5:214-227 '60. (MIRA 14:5)

1. Laboratoriya khimii belka Kishinevskogo gosudarstvennogo universiteta.  
(Sorghum)



MOZDZOVICH, M.S.; SHUKLA, M.A.; ALBERT, W.C.; GARDINER, L.C.;  
KARLINA, N.I.

Optimum conditions for the preservation of green peas in refrigeration chambers till their processing in plants. Kons. i sr.prom. 18 no.10:10-11, 1963. (MIRA 16:11)

1. Moldavskiy nauchno-issledovatel'skiy institut izobretovoy promyshlennosti.

BOBRACOV, ... ..

... ..  
... ..  
3 3 3 3 3 3 (MIR 19 1)

GOLDBERG, G.M.

Using cold welding in the manufacture of electric engineering  
equipment. Arsen. avr. 17 no. 5: 85-86 My 1961. (MIRA 12711)

1. Kuznetskiy zavod elektromekhanicheskoy apparatury.

CONFIDENTIAL

"The best way to get the most out of a man is to  
keep him in the dark."

— Sir John Elliott

GOLDENBERG, G

M

N/S  
735.922  
.06

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red.; ZAYONCHKOVSKIY, P.A., prof., red.; KNCHSK'YAN, S.F.,  
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F.Ya., prof., red.; RYBNIKOV, K.A., prof., red.; SKAZKIN,  
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(Ukraine--Reed (Botany)) (Farm buildings)

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2. Sef de laborator la Institutul de cercetari in constructii si economia constructiilor (for Goldenberg).
3. Cercetator principal la Institutul de Cercetari Electrotehnice (for Popescu).
4. Cercetator la Institutul de Cercetari Electrotehnice (for Tanasescu).

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(for Popescu, Tanasescu). 2. Sef de sectie la Institutul de Proiectari  
si Cercetari Stiintifice pentru Constructii si Materiale de Constructii  
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GOLDENBERG, I.B.

Investigation of the flow pattern of gas, air and combustion products  
in the work space of Martin furnaces. Trudy Inst.chern.met.AN URSR  
7:102-113 '53. (MLRA 8:5)  
(Open-hearth process)

GOL'DEN

7 Investigation of the movement of gases, air, and combustion products in the working volume of an open-hearth furnace. L. B. Gol'dberg. *Dokl. Akad. Nauk SSSR*, 1954, No. 17111. The effect of air feed, draft, and other factors was studied on the aerodynamics in a 5-ton basic open-hearth furnace fired by producer gas & liquid fuel. It is suggested that back currents and eddies reduce the resistance of the crown, spray it with slag oxides, and above all, with Fe oxides which chemically erode the furnace lining. These are apparently the causes of uneven wear of the crown. M. Hoehn

67

AUTHOR: Goldenberg, I.B. and Dikshteyn, E.I., Engineers, Magnitogorsk Metallurgical Combine. 224

TITLE: New design of reversing valve. (Novaya konstruktziya perekidnogo klapana.)

PERIODICAL: "Metallurg" (Metallurgist), 1957, No. 2, pp. 28 - 29, (U.S.S.R.)

ABSTRACT: Laboratory-scale investigations on models of the ordinary type of reversing valve used for open-hearth furnaces showed that the high pressure-drops produced were due to incorrect shape and the absence of special devices to facilitate the direction change of the gases. An improved design has been evolved in which guide vanes are provided. In model and full-scale tests this has been found to increase checker temperatures; e.g. where gas checker temperatures were 1 180 - 1 260 °C they rose to 1 240 - 1 300 °C after installing the new type valve. A 2.8% saving in coke-oven gas was thereby obtained. Ten such valves are in satisfactory service at Magnitogorsk.

1 photograph.

137-58-4-6469

Translation from Referativnyy zhurnal Metallurgiya, 1958, Nr 4, p. 19, USSR.

AUTHOR Goldenberg, I. B.

TITLE The Effect of Heating of Steam and Air Blast in the FluoSolids Gasification of a Pulverized Fuel (Vliyaniye nagreva parovozdushnogo dushnogo daniya i zetsir pylevidnogo topliva v kipvashchem sloye)

PERIODICAL Sbornik nauchnykh i inzhenernykh rabot Magnitogorskiy gornometallurgicheskiy universitet, 1957, Nr 11, pp 145-150

ABSTRACT Calculations are presented on the change in the parameters of generator gas in the gasification of coal dust, with an increase in the amount of steam and in the preheat temperature of the steam and air. Calculations show that the heating value of the gas diminishes by 3.5 kcal for each excess kg steam. An increase in the temperature of the steam-and-air blast by 19C causes the heat value of the moist gas to rise by 0.476 kcal and that of dry gas by 0.460 kcal. At the minimum necessary consumption of steam and with a rise in the temperature to which the air is heated to 1000°, the heat value of the gas will attain 1400-1450 kcal/m<sup>3</sup>. N 1

Card 1/1

1. Gases--Temperature effects
1. Steam--Application
3. Air blast--Test methods

AUTHOR: Gol'denberg, I.B., Engineer 133-12-0/26

TITLE: Straightening Grate for Air Regenerators of Open Hearth  
Furnaces (Vypriyamlyayushchkiye rashetki vozdukhnykh  
regeneratorov martenovskikh pechey)

PERIODICAL: Stal', 1957, No. 12, p. 1076 - 1078 (USSR)

ABSTRACT: The use of a straightening grate at the entrance to the air regenerators as a means of decreasing non-uniformity of gas flow in slag pockets and in the over-checker space of the regenerators was studied on a 400-ton open hearth furnace. The design of the straightening grate (either from chrome-magnetite or Dinas refractories) tested is shown in Figs. 2 and 5. The service life of the grate from Dinas refractory was 50-60% of the duration of the campaign of the furnace (silica roof). When operating with the straightening grate, the consumption of fuel decreased on average by 9% and the temperature of the waste gas decreased due to an improvement in the operation of regenerators. The use of a straightening grate is recommended. There are 7 figures and 5 Soviet references.

AVAILABLE: Library of Congress

Card 1/1

GOL'DENBERG, I.B.

History of industrial furnace technology in Russia. Metallurg 4  
no.3:38 Mr '59. (MIRA 12:4)  
(Metallurgical furnaces)

GOL'DENBERG, I.B.

Investigating slide-type reversal valves. Vop.proizv.stali no.7:  
27-47 '60. (MIRA 13:3)  
(Open-hearth furnaces--Equipment and supplies)  
(Slide-valves)







GOL'DENBERG, Y. E., Cand Tech Sci -- (Title) "Investigation of resistance in the movement of gases in open-pore porous." Unpublished, 1960. 17 pr; (Ministry of Higher and Secondary Specialist Education RSFSR, Siberian Metallurgical Inst in Serov (transmission)); 200 copies; price not given; list of author's works at end of text (11 entries); (RL, 81-80, 11c)

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SHEGIREV, Yu.B.; ANTIPIN, V.G.; Prinipali uchastnye: SMERNOV, L.A.;  
KAZANOV, A.I.; YELISAROV, A.G.; KULANOV, A.M.; KOCHENOV, M.G.;  
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V.M.; NOVIKOV, S.M.; MANEVSKIY, A.B.; DMITRIYEV, I.; MANZULA, M.;  
BEREZCOVOY, I.A.; ZITS, K.A.; SADIN, S.N.; TAYEBENTSEV, G.;  
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Operating a 400-ton open-hearth furnace on casing-head gas.

Stal' 20 no. 7:50A-598 J1 '60.

(MIRA 14:5)

(Open-hearth furnaces--Equipment and supplies)

ZUTS, Konstantin Aleksandrovich, dots., kanz. tekhn. nauk;  
GOL'DENBERG, Iosif Borisovich, inzh.; SIVOLAPOV, Viktor  
Gordeyevich, inzh.

[Control of thermal conditions in open-hearth furnaces]  
Upravlenie teplovym rezhimom martenovskikh pechal. Mo-  
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DOBROKHOTOV, N.N., akademik [deceased]; KREBBER', K.A.; KOBYURIN,  
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GOL'DENBERG, I. B.

Investigating the component of heat exchange in open-hearth  
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163 '64. (RIRA 17:5)

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GOL'DENBERG, I.B.

Resistance of open-hearth furnaces during the drawing-off of  
combustion products. Izv. vys. ucheb. zav.; Chern. met. 7  
no.9:186-194 '64. (MIRA 17:6)

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GOLDBERG, I.B., 1961.

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(KGB 12.3)

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Rapid method of determining the straightness of rods in  
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1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy  
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PROCESSES AND PROPERTIES INDEX

C

Improving the building characteristics of alumina cement. P. P. BUNIKOV AND I. G. GOLDSBERG. *Doklady Akad. Nauk U.R.S.S., Vidil. Fiz. Khim. i Matem. Nauk*, 1942, No. 3-4, pp. 79-87. Defects in concrete blocks made from alumina cement are caused by the heat generated in the formation of  $3CaO \cdot Al_2O_3 \cdot 6H_2O$  instead of the usual hydration process:  $2CaO \cdot Al_2O_3 \cdot 9H_2O + 2CaO \cdot Al_2O_3 \cdot 7H_2O + Al_2O_3 \cdot 3H_2O$ . These defects were eliminated by the addition of gypsum calcined at 600° to 700°. Addition of 25 to 30% of the anhydrous  $CaSO_4$  to the alumina cement used in the preparation of plastic concrete which was hardened under adiabatic conditions at 60° to 65° resulted in a mechanical strength of 450 kg. cm.<sup>2</sup> after 2 days and 520 kg. cm.<sup>2</sup> after 7 days. Specimens of rigid rammed concrete showed a compressive strength of 640 kg. cm.<sup>2</sup> after 1 day and 300 kg. cm.<sup>2</sup> after 7 days. Samples of concrete prepared from alumina cement without the addition of anhydrous  $CaSO_4$  and hardened under adiabatic conditions showed a compressive strength of 220 kg. cm.<sup>2</sup> after 2 days and 144 kg. cm.<sup>2</sup> after 7 days. B/Z k.

ASA S.L.A. METALLOGICAL LITERATURE CLASSIFICATION

ALUMINA	CEMENT	CONCRETE	STRENGTH	TEMPERATURE	PROPERTIES	INDEX	CLASSIFICATION
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	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
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81	82	83	84	85	86	87	88
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113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128
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177	178	179	180	181	182	183	184
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193	194	195	196	197	198	199	200