

STRELITSKY, I. I.

Brown-tail Moth

Protecting young oaks against the brown-tail moth Les 'step' 14, no. 5, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

SECRET

TO : DIRECTOR, CIA

FROM : SAC, [illegible]

SUBJECT: [illegible]

[The following text is extremely faint and largely illegible due to the quality of the scan. It appears to be a memorandum or report containing several paragraphs of text.]

STREL'TSOV, I.I. nauchnyy sotrudnik (Dnepropetrovsk)

Automatic trap for owlet moths. Zashch.rast.ot vred.i bol. 4
no.0144 N-D '59. (MIRA 15:11)

(Insect traps)

STREL'TSOV, I.P.

Results of a competition in the Pacific Ocean Basin administration of the Scientific Technological Society for Water Transportation. *Biul. tekhn.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.4:133-136 '62.* (MIRA 16:4)

1. Uchenyy sekretar' Tikhookeanskogo basseynovogo pravleniya Nauchno-tekhnicheskogo obshchestva vodnogo transporta.
(Pacific Ocean—Merchant marine)

VODYANIK, G.M.; STREL'TSOV, I.P.

New drive for NPI-type counter-rotating fans. Trudy NPI 137:81-87 '62.
(MIRA 16:10)

AUTHORS: Selivanova, N. M., Zubova, G. A., SOV/156-58-1-2/46
Strel'tsov, I. S.

TITLE: On the Problem of Barium-, Strontium-, and Lead Selenate
Crystalline Structure (K voprosu o kristallicheskoj strukture
selenatov bariya, strontsiya i svintsa)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya
tekhnologiya, 1958, Nr 1, pp. 5 - 8 (USSR)

ABSTRACT: The crystalline structure of the selenates has hitherto much
less been investigated than that of the sulfates. Above all
the selenates of the bivalent metals which are soluble to
only a small extent are insufficiently known. After a survey
of publications (Refs 1-5) the authors say that at present
the mentioned three selenates may be considered as isomorphous
to the corresponding sulfates, i.e. they have an orthorhombic
bipyramidal structure (barite type) (Refs 8-10). Since, however,
experimental data on the structure of the barite type in the
case of lead selenates are lacking in publications, the authors
decided to investigate radiologically the three mentioned salts.
The production and several constants of the mentioned three
salts are described in an experimental part. Figure 1 gives

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On the Problem of Barium-, Strontium-, and Lead
Selenate Crystalline Structure

SOV/156-58-1-2/46

the Debye (Debye)-Scherrer (Sherrer) X-ray diagrams. They show that the appearance of the radiograph of the strontium selenate differs from that of barium selenate, it is, however, similar to that of lead selenate. The interplanar spacings of $BaSeO_4$, $SrSeO_4$ and $PbSeO_4$ (Table 2) show similar conditions.

The values determined of the refraction indices of all salts in question (Table 1) increase with the rising cation weight. They are in all cases higher than the values of the same indices of the corresponding sulfates (Ref 6). They form a series: tellurides > selenides > sulfides > oxides (Ref 2). The indices of refraction of tellurates, selenates, and sulfates are bound to change in the same order. This would agree with the authors' results. The fact that the lead selenates belong to the crystalline structure type of barite may be considered as proved. The analogy of the Debye (Debye) diagrams of the strontium- and lead selenates is no chance one: it is exclusively due to the approximate ionic radii of Sr^{2+} and of Pb^{2+} (1,27 Å and 1,32 Å) (Refs 13,14). There are 1 figure, 2 tables, and 16 references, 6 of which are Soviet.

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On the Problem of Barium-, Strontium-, and Lead
Selenate Crystalline Structure

SOV/156-58-1-2/46

ASSOCIATION: Kafedra neorganicheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta im.D.I.Mendeleyeva (Chair of Inorganic Chemistry of the Moscow Institute of Chemical Technology imeni D.I. Mendeleev)

SUBMITTED: September 21, 1957

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5(2)

SOV/78-4-7-3/44

AUTHORS: Selivanova, N. M., Shneyder, V. A., Strel'tsov, I. S.

TITLE: The Thermal Decomposition of Calcium Selenate (Termicheskoye
ra zlozheniye selenata kal'tsiya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7,
pp 1481-1487 (USSR)

ABSTRACT: The heating- and cooling-curves of calcium selenate (Fig 1) were plotted by means of the N. S. Kurnakov-pyrometer. The temperature at the beginning of decomposition and at complete decomposition, the melting temperature, and the degree of thermal decomposition between 200-1150° were determined. The salt $\text{CaSeO}_4 \cdot 2\text{H}_2\text{O}$ served as a starting basis. The heating curve up to 600° develops in a manner similar to that in the case of gypsum. The cooling curve is not in agreement with the heating curve, because irreversible processes occur in the case of heating. The data of the analysis of the salt annealed at different temperatures are given by table 1. Table 2 mentions the losses in weight at various temperatures. A microscopical investigation of the salt heated up to 200° shows a mixture of

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The Thermal Decomposition of Calcium Selenate

SOV/76-4-7-3/44

$\text{CaSeO}_4 \cdot 2\text{H}_2\text{O}$ crystals and fine needle-shaped crystals of the non-aqueous selenate. Attempts made to produce the semihydrate $\text{CaSeO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ were unsuccessful. During heating, modification changes sometimes occur. At 698° decomposition and conversion into selenite begins: $2\text{CaSeO}_4 \longrightarrow 2\text{CaSeO}_3 + \text{O}_2$ with partial volatilization. The final product is calcium oxide and anhydride of the selenic acid. The results obtained do not explain the reversible endothermic effect at 786° of the heating curve. The results of the Debye-Scherrer X-ray pictures are given by table 3. As shown by table 4, calcium selenate is less temperature-resistant than calcium sulfate. The refraction indices of the crystals were determined by A. I. Mayer. There are 1 figure, 4 tables, and 23 references, 10 of which are Soviet.

SUBMITTED: April 11, 1958

Card 2/2

SELIVANOVA, N.M.; SHNEYDER, V.A.; STRELITSOV, I.S,

Physicochemical study of selenates. Part 9: Thermal decomposition of magnesium selenate. *Izv. vys. ucheb. zav; khim. i khim. tekhn.* 3 no. 5:787-793 '60.

(MIRA 13:12)

1. Moskovskiy khimiko-tekhnologicheskoy institut imeni D.I.Mendeleyeva. Kafedra obshchey i neorganicheskoy khimii.
(Magnesium selenate)

85607

5 2640

2209, 1273, 1043

S/078/60/005/010/027/030/XX
B017/B067

AUTHORS: Selivanova, N. M., Shneyder, V. A., and Strel'tsov, I. S.

TITLE: Production of Crystal Hydrates of Magnesium Selenate 27

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,
pp. 2269-2271

TEXT: The crystal hydrates of magnesium selenate were synthesized. The compound $MgSeO_4 \cdot 6H_2O$ was produced by dissolving a stoichiometric amount of purest magnesium oxide in selenic acid, and subsequent crystallization at room temperature. Its specific gravity is 2.01; $MgSeO_4 \cdot 6H_2O$ has the following refractive indices: $N_g = 1.495 \pm 0.002$, $N_p = 1.464 \pm 0.002$. The interplanar spacings (d) and the relative lines of intensity of the X-ray pictures of the following compounds are summarized in a table: $MgSeO_4 \cdot 6H_2O$, $MgSeO_4 \cdot 4H_2O$, $MgSeO_4 \cdot H_2O$, and $MgSeO_4$. By heating the crystals of $MgSeO_4 \cdot 6H_2O$ in the air bath at temperatures of 40 and 70°C, a crystal hydrate $MgSeO_4 \cdot 4.5H_2O$ is formed. By heating the crystal hydrate

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85607

Production of Crystal Hydrates of
Magnesium Selenate

S/078/60/005/010/027/030/XX
B017/B067

$MgSeO_4 \cdot 6H_2O$ in the air bath at $40^\circ C$, the tetrahydrate $MgSeO_4 \cdot 4H_2O$ is formed within four days. The monohydrate $MgSeO_4 \cdot H_2O$ is formed by boiling $MgSeO_4 \cdot 4H_2O$ in glacial acetic acid with reflux in the course of three hours. The anhydrous magnesium selenate $MgSeO_4$ is formed by thermal treatment of $MgSeO_4 \cdot H_2O$ at $350^\circ C$. The microscopic pictures of the crystal hydrates $MgSeO_4 \cdot 6H_2O$ and $MgSeO_4 \cdot 4H_2O$ are reproduced in a figure. There are 1 figure, 1 table, and 9 references: 1 Soviet, 1 US, 3 French, 3 German, and 1 Swedish. X

SUBMITTED: July 3, 1959

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5.2610 also 2308

84215
S/078/60/005/010/010/021
B004/B067

AUTHORS: Selivanova, N. M., Shneyder, V. A., Strel'tsov, I. S.

TITLE: Thermal Decomposition of Beryllium Selenate ✓

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,
pp. 2272-2279

TEXT: By means of the Kurnakov pyrometer the authors took the heating and cooling curves of beryllium-selenate tetrahydrate in the temperature range 50 - 800°C (Fig. 1). They compared them with the curves obtained for anhydrous beryllium selenate (Fig. 2). From these data as well as from the analyses of the residues on ignition of $\text{BeSeO}_4 \cdot 4\text{H}_2\text{O}$ (Table 1) and BeSeO_4 (Table 2), of the loss on ignition of these substances (Table 3), and the Debye-Scherrer X-ray picture (Table 4), they obtained the following results: At 75°C, $\text{BeSeO}_4 \cdot 4\text{H}_2\text{O}$ passes over into $\text{BeSeO}_4 \cdot 2\text{H}_2\text{O}$. At 146°C, a further water loss occurs; and at 213°C, anhydrous BeSeO_4 is formed. These processes are accompanied by a partial reduction of Se^{6+} to Se^{4+} and a

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Thermal Decomposition of Beryllium
Selenate

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S/078/60/005/010/010/021
B004/B067

partial volatilization of Se. Decomposition occurs at 460 - 560°C. BeO is formed without melting of the reaction product. As may be seen from Table 5, dehydration of $\text{BeSeO}_4 \cdot 4\text{H}_2\text{O}$ starts at a temperature lower than that of $\text{BeSO}_4 \cdot 4\text{H}_2\text{O}$. Table 6 lists the decomposition temperatures of the selenates and sulfates of the series Be, Mg, Ca, Sr, Ba. Fig. 3 shows the following thermal stability of the selenates: $\text{BeSeO}_4 < \text{MgSeO}_4 < \text{CaSeO}_4 < \text{SrSeO}_4$

< BaSeO_4 . The lower thermal stability of the selenates compared to the sulfates⁴ is explained by their lower heat of formation and lattice energy. The authors mention papers by S. D. Shargorodskiy and Ya. A. Fialkov (Ref. 17) and Vikt. I. Spitsyn, and V. I. Shostak (Ref. 22). There are 3 figures, 6 tables, and 30 references: 16 Soviet, 3 US, 1 British, 4 German, 5 French, and 1 Austrian.

SUBMITTED: July 3, 1959

Card 2/2

BURMISTROVA, Ol'ga Aleksandrovna; KARATET'YANTS, Mikhail
Khristoforovich, prof.; KARETNIK V, German Sergeyeovich,
dots.; KISELEVA, Yekaterina Vasil'yevna, dots.; KUDRYASHOV,
Igor' Vladimirovich, dots.; MIKHAYLOV, Vladimir Vasil'yevich,
dots.; STAROSTENKO, Yekaterina Pavlovna, dots.; STREL'TSOV,
Igor' Sergeyeovich; KHACHATURYAN, Ol'ga Borisovna, dots.;
GORBACHEV, S.V., doktor khim. nauk, prof., zasl. deyatel'
nauki i tekhniki, red.; ALAVERDOV, Ya.G., red.; VORONINA,
R.K., tekhn. red.

[laboratory work in physical chemistry] Praktikum po fiziche-
skoi khimii. [By] O.A. Burmistrova i dr. Moskva, Vysshaya
shkola, 1963. 553 p. (MIRA 16:1)
(Chemistry, Physical and theoretical.--Laboratory manual)

RASSUDOVA, N.S.; TEREKHOVA, A.I.; LILO, G.H.; ALEKSANDROVA, N.A.; STREL'TSOV, I.S.;
RUBINSHTeYN, B.L.

Synthesis and investigation of the characteristics of nickel titanates
and mixed nickel-titanium pigments. *Lakokras.mat.* 1 ~~ikE~~ prim. no.2:
25-29 '63. (MIRA 16:4)
(Titanium) (Nickel) (Pigments)

RASSUDOVA, N.S.; STREL'TSOV, I.S.; ALEKSANDROVA, N.A.

Studying the transformation taking place during the synthesis of
nickel metatitanates. Lakokras. mat. i ikh prim. no.5:27-29 '63.
(MIRA 16:11)

S/078/63/008/003/016/020
B117/B186

AUTHORS: Leshchinskaya, Z. L., Selivanova, N. M., Strel'tsov, I. S.

TITLE: Heat of formation of barium selenite

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 3, 1963, 763-764

TEXT: The heat of formation of barium selenite in the reaction of sodium selenite with barium chloride was measured in a calorimeter at 25°C for the first time. The presence of crystalline barium selenite was proved by x-ray diffraction analysis. The standard heat calculated according to Hess's law was $\Delta H_{298}^{\circ} = -249.31$ kcal/mole. There are 1.

figure and 1 table.

ASSOCIATION: Moskovskiy khimiko-tehnologicheskij institut im.
D.I. Mendelejeva (Moscow Institute of Chemical Technology
imeni D.I. Mendelejev)

SUBMITTED: May 7, 1962

Card 1/1

LESHCHINSKAYA, Z.L.; SELIVANOVA, N.M.; MAYYER, A.I.; STREL'TSOV, I.S.;
MUZALEV, Ye.Yu.

Heats of formation of nickel selenites and cobalt selenites.
Zhur. VKHO 8 no.5:577-578 '63. (MIRA 17:1)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni
Mendeleeva.

SELIVANOVA, N.M.; SAMPLAVSKAYA, K.K.; STREL'TSOV, I.S.; MAZEPOVA, V.I.

Thermal decomposition of aluminum selenate. Zhur. neorg. khim.
8 no.7:1645-1653 J1 '63. (MIRA 16:7)

(Selenates) (Aluminum compounds)
(Thermal analysis)

SEI.IV. NOVA, N. M.; LESHCHINSKAYA, Z. L.; STREL'ITSOV, I. S.

Heat of formation of cadmium selenite. Zhur. fiz. khim. 37
no. 3:668-670 Mr '63. (MIRA 17:5)

1. Moskovskiy ordena Lenina khimiko-tehnologicheskij institut
imeni Mendelyeyeva.

L 17712-63

EWP(q)/EWT(m)/BDS AFTTC/ASD Pad RDW/JD/JW/WB

ACCESSION NR: AP3004065

S/0076/63/0 37/007/1563/1567

AUTHORS: Selivanova, N. M.; Leshchinskaya, Z. L.; Mayer, A. I.; Strel'tsov, I. S.;
Muzalev, Ye. Yu.

TITLE: Thermodynamic properties of nickel selenite dihydrate

SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 7, 1963, 1563-1567

TOPIC TAGS: nickel selenite dihydrate, sodium selenite, nickel nitrate

ABSTRACT: Authors analyzed nickel selenite dihydrate which is stable under ordinary conditions. In this work, the reaction heat of the interaction of nickel nitrate with sodium selenite was measured in a calorimeter at 25C. After this data was obtained, the standard heat of formation of nickel selenite dihydrate from the elementary components was calculated. A further thermodynamic processing of these findings with the incorporation of V. G. Chukhlantsev's data (Zhurn. Analit. Khimii, 12, issue 3, 1957, p. 296) with respect to the solubility of nickel selenite made it possible to compute the change in the standard isobaric potential during the formation of nickel selenite dihydrate from the elementary components as well as the standard entropy of this salt. Orig. art. has: 1 figure and 1 table.

ASSN: Moscow chemical engineering institute.

Card 1/2/

CHASNIKOV, I.Ya.; ANZON, Z.V.; TAKIBAYEV, Zh.S.; STREL'TSOV, I.S.

Identification of particles by the photographic emulsion technique.
Zhur. eksp. i teor. fiz. 45 no.2:29-37 Ag '63. (MIRA 16:9)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.
(Photography, Particle track)

SILYAN, G. M.; SARYKINA, T. A.; STRELITSOV, I. S.

Thermal stability of sodium selenate. Izv. vuz. khim. razv.;
Khim. i khim. tekh. 7 no.3:365-372 '64.

(RUSSIA 1964)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendele-
yeva, kafedra obshchey i neorganicheskoy khimii.

STREL'TSOV, Ivan Vasil'yevich; SEMENOV, Leonid Ivanovich; PYLAYEVA,
L.N., red.

[Practice in highway construction in Uzbekistan] Opyt
stroitel'stva avtomobil'nykh dorog v Uzbekistane.
Tashkent, "Uzbekistan", 1965. 134 p. (MIRA 18:12)

STREL'TSOV, K.

On the road to reconstruction. Sel'.stroi. 14 no.9:28 S '59.

(MIRA 12:11)


1. Direktor Ryazanskoy shkoly masterov (desyatnikov).
(Ryazan--Building trades--Study and teaching)

S/058/51/000/007/086/585
A001/A101

AUTHOR: Strel'tsov, K.A.

TITLE: The application of Doppler effect to hydroacoustics

PERIODICAL: Referativnyy zhurnal. Fizika, no. 7, 1961, 370, abstract 7Zh661 ("Tr. Tsentr. n. ch. inzh. morsk. flota", 1960, no. 30, 83 - 90)

TEXT: The author considers theoretical problems of the precision of the Doppler basic formula for an ideal bear, as applied to hydroacoustics. He analyzes briefly main errors and proposes some methods of their taking into account or compensation. The prospect of applying the method considered to automatic navigation (for automation of navigation) is outlined. 

[Abstracter's note: Complete translation]

Card 1/1

STREL'TSOV, K.A.

New developments in the design of echo sounders. Inform.sbor.
TSNIIMF no.60 Sudovozh.i sviaz' no.15:3-7 '61.

(MIRA 16:2)

(Echo sounding)

AVERKIYEV, Vladimir Pavlovich; KAUFMAN, A.L., retsenzent; LADE,
B.F., retsenzent; FAVLOV, G.N., retsenzent; NAZAROV,
V.Ye., nauchn. red.; STREL'TSOV, K.A., nauchn. red.;
KLIMINA, Ye.V., red.izd-va; KRYAKOVA, D.M., tekhn. red.

[Fish location and electronavigation equipment on ships]
Sudovye rybopoiiskovye i elektronavigatsionnye pribory.
Leningrad, Sudpromgiz, 1963. 31 p. (MIRA 16:12)
(Trawls and trawling—Equipment and supplies)
(Electricity in navigation)

STREL'TSOV K.N.

5(1); 2(2)
 Moscow. Dom nauchno-tekhnicheskoy promyshlennosti i nauki P.E. Dzerzhinskogo
 Plastmassy v mashinostroyeni (Plastics in Machine Building) Moscow, Mashgiz,
 1959. 296 p. Errata slip inserted. 8,000 copies printed.
 Sponsoring Agency: Otechestvo po rasprostraneniyu politicheskikh i nauchnykh
 knizhek.
 Ed. (Title page): V.E. Zayonchik; Ed. (Inside book): B.M. Rodin, Engineer;
 Ed. of Publishing House: G.M. Kozlov; Tech. Ed.: A. P. Uvarov,
 Mashgiz, Moscow. Ed. for Literature on Machine Building and Instrument Making
 (Mashlit): N.V. Pokrovskiy, Engineer.

NOTE: This collection of articles is intended for engineers and technicians
 in the machine-building industry.
 COMMENT: This collection reviews the progress made by the Soviet Union in the
 field of manufacturing new plastic materials and fabricating different plastic
 material articles for use in the machine-building industry. Physicochemical
 and dielectric properties of phenolics, epoxies, glass plastics, epoxy resins,
 polyamides, laminated plastics, and other plastics are analyzed and their
 use in machine building described. Characteristics and composition of adhesives
 and bonding agents with plastics as a protection against corrosion are explained.
 Methods of coating of plastics as a protection against corrosion are explained,
 and stabilization of plastics achieved by vacuum evaporation is reviewed, as well as
 special methods used for manufacturing and fabricating plastics and articles made of
 plastics. Mechanization of certain operations and automatic control of various
 processes are discussed. No personalities are mentioned. References accompany
 individual articles.

Vlasova, L.F. and M.E. Matsharikh. Polyamide Resins	19
Chernov, V.M. Laminated Plastics With Fiberglass Base and Paper	29
Kozlov, G.M. Thermolite and Decorolite -- Water and Acid Resistant Plastics for Electrical Insulation	42
Mikhalev, I.S. Bonding of Metals	55
Pushov, V.I. Organosilicon Polymers Used in Machine Building	65
Gerasimov, M.G. Technique of Pressing Thermosetting Plastic Material	71
Antonov, I.S. Applying Plastic Coating by Spraying Burning Gas	83
Grachova, E.M. New Method of Manufacturing Molds and Patterns Made of Epoxy Resins	91
Shchegolev, E.M. Expressing Thermoplastic Sheets by Pneumatic and Vacuum Methods	99
Legolis, V.V., and V.I. Orlovskiy. Pressure Cast of Polyamides	109
Fedorikhin, V.P., and P.I. Beldugin. Processing Fluoroplastic - 4	117
Shubertov, M.P. Problems of Designing Press Molds for Fabricating Articles Made of Plastic Material	128
Kozlov, G.M., N.M. Kazanskii, and M.Ia. Kamalibayev. Metallization of Plastics Achieved by High Vacuum Evaporation Method	136
Lewis, A.J. Equipment for Fabricating Articles Made of Plastics	144
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STREL'TSOV, K.S.

5(1)
AUTHOR: Forshitskiy, I. I.

TITLE: Conference of the Workers of the Plastics Industry
(Sovetskaniye rabotnikov plastmassennoy promyshlennosti)

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr. 4, pp 98-99 (USSR)

ABSTRACT: From June 8 to the branch conference of the workers in the plastics industry was held in Moscow. It was organized by the following institutions: Gosudarstvennyy komitet Sovetskoy Ministroy SSSR po khimii (State Committee of the Council of Ministers of the USSR for Chemistry), Zak profsoyuzna rabochikh mestyanoy i khimicheskoy promyshlennosti (Central Committee of the Trade Union of the Workers of the Petroleum- and Chemical Industry), Tsentrallyyeye pravleniye VPO im. S. S. Kenesiyeva (Central Administration VPO im. S. S. Mendeleev) and Sovetskoy-narodnyy khimicheskiy nauchnoissledovatel'skiy tsentr (USSR National Scientific Center for Chemical Industry) (Councils of the National Scientific Center of the Moscow Oblast' and Seven Economic Districts) OGPU, USSR and KPIK. 1000 persons took part in the Conference. The tasks which were set for the plastics industry by the XII Congress of the CPSU and the May Plenum of the CPSU 1959 were discussed. Besides the Plenary Session, sessions of four different sections

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took place. In the session of the section for polymerization plastics and rubbers 16 lectures were held. Among them the following: P. O. Zolotarev (Kustorovskiy khimicheskiy zavod) (Kuznetsov Chemical Works) - Research on the production of polyethylene; A. V. Golubeva (NIPP) - Styrene copolymers with polyformaldehyde; (Kerovskiy zavod im. S. M. Kirva) (Kerovskiy zavod im. S. M. Kirva) - Production of vinyl chloride with mercuro-ferrous catalyze. In the section of condensation plastics P. S. Kiryan (Khimne-fagil'skiy zavod plastmass) (Yuzhnyy Tagil Works for Plastics) spoke on "The Technology of the Phenol Formaldehyde Resins according to the Continuous Method". In the session of the section glass plastics 12 lectures and 9 communications of research institutes concerning the results obtained at the production of glass plastics were delivered. The following plastics were mentioned in the section for final processing of plastics: E. M. Zhurav (Khimicheskoye nauchnoissledovatel'skiy tsentr Leningrad-Sverdlovsk) (Khimicheskoye nauchnoissledovatel'skiy tsentr Leningrad-Sverdlovsk) on "Model'no-konstruktivnyye isseredki po izgotovleniyu pialnykh izdeliy iz plastmass" (Modeling and Constructive Researches on the Production of Pial Products according to the Phenolic Method); Z. F. Mitkevich (Kiyevskiy ekonomicheskii nauchnoissledovatel'skiy tsentr) (Kiyevskiy Ekonomicheskii Nauchnoissledovatel'skiy tsentr) on "Izgotovleniye slozhnykh izdeliy iz plastmass" (Manufacturing Complicated Final Products of

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Polyamides by Casting at Low Pressure Directly from the Nylon Kettle without the Use of Casters and Impellers", G. I. Kuznetsov (NIPP) "On the Production and Processing of Transparent Soft and Hard Polyvinyl Chloride Mixtures", the following delegates criticized the work of the Ukrainian Congress: I. I. Kuznetsov (Kiyevskiy ekonomicheskii nauchnoissledovatel'skiy tsentr) (Kiyevskiy Ekonomicheskii Nauchnoissledovatel'skiy tsentr) (Administration for Plastic Masses and Synthetic Resins of the State Committee of the Council of Ministers of the USSR for Chemistry), and some institutes because of insufficient coordination. Furthermore the insufficient supply with projecting plans of the plastics industry by the Giproplast was criticized. The unsatisfactory development of some districts of national economy (Kazanskoye Leningrad, Leningrad, etc.) was pointed out. The conference supported the demands of the workers of the plastics industry concerning the introduction of a holiday to be called "Day of Chemists".

Card 3/3

LOSEV, Boris Ivanovich, doktor tekhn.nauk, prof.; STREL'TSOV, Konstantin Nikolayevich; PECHENKIN, A.L., inzh., red.; BRAGINSKIY, V.A., inzh., red.; FREGER, D.P., izd.red.; BELOGUROVA, I.A., tekhn.red.

[Manufacture and assembly of parts made of plastics; a survey]
Obrabotka i sborka detalei iz plasticheskikh mass; obzor. Pod
red. A.L.Pechenkina i V.A.Braginskogo. Leningrad, 1960. 75 p.
(MIRA 14:6)

(Plastics)

STREL'TSOV, K.N.

Ways and means of expanding the processing of sheet thermoplastics.
Plast.massy no.5:25-31 '60. (MIRA 13:7)
(Plastics industry--Equipment and supplies)

S/081/62/000/017/086/102
B177/B186

AUTHOR: Strel'tsov, K. N.

TITLE: A new production process for treating thermoplastic sheets

PERIODIC L: Referativnyy zhurnal. Khimiya, no: 17, 1962, 542-543,
abstract 17161 (In collection: Plastmassy v mashinostr. i
priborostr. Kiyev, Gostekhizdat USSR, 1961, 520 - 529)

TEXT: To promote efficient manufacturing techniques for the production of finished plastic articles, a technology has been devised for manufacturing galvanic pressure moulds, for high-pressure extrusion (≥ 15 atm.) and for vacuum-moulding of thermoplastic sheets (viniplast, organic glass, a reinforced copolymer of styrene (CH- η (SN-P)) and polyethylene). This makes it possible to obtain articles of complicated shape, large-sized components, and components simulating cut glass, with considerable simplification and cheapening of the process, and with improvement of quality. The author presents the design and a description of the galvanic extrusion moulds, the high-performance pneumatic stamping moulds and a doublesided fitment.
[Abstracter's note: Complete translation.]

Card 1/1

STREL'TSOV, K.

Large details made of sheet thermoplastics. Na stroi.Ros. no.4:
35-36 Ap '61. (MIRA 14:6)

1. Nachal'nik Opytno-konstruktorskikh masterskikh upravleniya
khimicheskoy promyshlennosti Lensovnarkhoza.
(Thermoplastics)

BOBRYNIN, Boris Nikolayevich; STREL'TSOV, Konstantin Nikolayevich;
ROMANOVSKIY, V.P., kand. tekhn.nauk, red.; VAYNTRAUB, D.A.,
kand . tekhn. nauk, red.; LEYKINA, T.L., red.izd-va;
BARDINA, A.A., tekhn. red.

[Stamping of sheet plastics] Shtampovka listovykh plastmass.
Pod obshchei red. V.P.Romanovskogo. Moskva, Mashgiz, 1962.
76 p. (Bibliotekha shtampovshchika, no.8) (MIRA 15:11)
(Plastics--Molding)

STREL'TSOV, Konstantin Nikolayevich; CHEGODAYEV, D.D., red.;
TOMARCHENKO, S.L., red.; FOMKINA, T.A., tekhn. red.

[Pressure and vacuum forming methods of processing thermo-
plastics] Pnevmaticheskaja pererabotka termoplastov. Pod
red. D.D.Chegodaeva. Leningrad, Goskhimizdat, 1963. 174 p.
(MIRA 16:7)

(Plastic--Molding)

STREL'TSOV, K.N.

Mechanized vacuum-forming technology for the manufacture of articles from sheet thermoplastics. Plast.massy no.4:27-30 '63. (MIKA 16:4)
(Plastics industry—Equipment and supplies) (Plastics—Molding)

ACC NR: AM5025328

Monograph

UR/

Losev, Boris Ivanovich; Putintsev, Georgiy Vasil'yevich; Strel'tsov, Konstantin Nikolayevich

Processing and finishing of plastic parts
(Obrabotka i otdelka detaley iz plastmass) [Leningrad] Lenizdat,
1966. 234 p; illus., biblio., tables. 10,000 copies printed.

TOPIC TAGS: plastic, plastic industry, industrial production

PURPOSE AND COVERAGE: The book describes modern methods for the processing and finishing of plastics such as machining, heat treatment, ultrasonic and high-frequency induction welding, or spraying. It discusses such problems as: testing methods, assembly of plastic parts, or quality control of finished products. The book is intended for engineers, technicians, and qualified workers. It can be used by college and high school students. There are 96 Soviet references.

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UDC: NONE

ACC NR: AM5026328

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- Ch. 2. Properties of plastics and methods for determining these properties -- 19
- Ch. 3. Processing of plastics -- 62
- Ch. 4. Metallization of plastics -- 152
- Ch. 5. Spraying of plastics -- 162
- Ch. 6. Assembly of plastic parts -- 170
- Ch. 7. Quality control of the machining, assembly and welded joints of plastic products and structures -- 216
- Ch. 8. Requirements for the production premises, industrial safety rules, industrial hygiene, and fire-prevention measures -- 227

Literature and references -- 230

SUB CODE: 11/ SUBM DATE: 25Jan66/ ORIG REF: 095/ OTH REF: 001/

Card 2/2 .

L 51551-65 FWT(1)/EWT(m)/EWG(m)/T/EWP(t)/EWP(b) P1-4 IJP(c) RDW/JD/CG
ACCESSION NR: AP5010760 UR/0181/65/007/004/1271/1272

AUTHOR: Kireyev, P. S.; Orlova, N. N.; Saurin, V. N.; Strel'tsov, L. N.

40
38
B

TITLE: Shift of edge of intrinsic absorption under the influence of an electric field in films of GaAs, CdS, and CdTe

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1271-1272

TOPIC TAGS: intrinsic absorption, absorption edge, electric field effect, thin film, gallium arsenide, cadmium sulfide, cadmium telluride

ABSTRACT: Although the shift of the edge of intrinsic absorption was investigated in many single crystals before, detailed investigations and comparisons with theory were made only for a few of the substances. The authors chose to investigate the effect in films of GaAs, CdS, and CdTe because such films can be produced readily with high resistances and can be investigated with standard apparatus using sources of relatively low voltage. The films were prepared by vacuum sputtering and measurements were made at room temperature. The degree of heating of the sample was monitored during the measurements to be able to account for the influence of the temperature on the measurement results. However, since the temperature rise did

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L 51551-65

ACCESSION NR: AP5010760

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not exceed 5C, the effect of the temperature could be neglected. The shift of the absorption edge was observed at fields on the order of 5×10^3 V/cm. The results do not agree with the theory of T. S. Moss (J. Appl. Phys. v. 32, 2136, 1961) and measurements will be repeated on films and single crystals using alternating fields and a wide range of temperatures, to check on the causes of this discrepancy. "The authors are deeply grateful to A. P. Landsman for supplying the GaAs and CdTe films." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 09Nov64

ENCL: 00

SUB CODE: 88, OP

NR REF SOV: 002

OTHER: 007

ls
Card 2/2

L 24371-66 EWT(1)/EWT(m)/ETC(f)/EVG(m)/T/EWP(t) IJP(c) RDW/JD/GG

ACC NR: AP6009704

SOURCE CODE: UR/0181/66/008/003/0980/0982

AUTHOR: Strel'tsov, L. N.; Kiseleva, N. M.; Kireyev, P. S. 47

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) E

TITLE: Anomalous shift of the intrinsic-absorption edge under the influence of an electric field in films and amorphous samples of selenium

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 980-982 27

TOPIC TAGS: selenium, absorption edge, line shift, electret, surface property

ABSTRACT: This is a continuation of earlier investigations (FIT v. 7, 2713, 1965) of the intrinsic² absorption edge in GaAs, CdS, and CdTe. The present study is devoted to selenium, where instead of the theoretically predicted shift of the absorption edge toward the long-wave side, the shift is toward the shorter wavelength. The amorphous-selenium samples were prepared in the form of plates 200--400 μ thick, or films produced by thermal sputtering in vacuum, ranging in thickness from 1 to 50 μ . The spectra with and without field were obtained with an ISP-51 spectrograph. An incandescent lamp was used as a light source. The spectrograms were analyzed with the aid of a microphotometer (MF-4). The spectra were taken at room and nitrogen temperatures, and the field was 5 kv. To ascertain the cause of the anomalous shift of the intrinsic absorption edge, x-ray pictures were taken of the sample before and after the application of the field, to check on the structural changes brought about by the field. The hypothesis that the shift may be due to the fact that selenium exhibits

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ACC. NR: AP6009704

an electret state, whose structure becomes ordered when the field is applied, was re-
jected on the basis of the experimental data, since no ordering was observed. It is
therefore proposed that the anomalous shift is due to the presence of surface states,
although the manner in which this causes the shift remain unclear, and calls for ad-
ditional research. Orig. art.has: 1 figure.

SUB CODE: 07 / SUBM DATE: 06Jul65/ ORIG REF: 002/ OTH REF: 003

Card 2/2⁴

STRELTSOV, L. V., BABKOV, S. I., SHAVORONKOV, N. M. and CHERNYKH, G. N.

"Die Kinetik der Isotopenanreicherung in vielstufigen Kolonnen."

Report presented at the 2nd Intl. Conf. on Stable Isotopes.
East German Academy of Sciences, Inst. of Applied Physical Material
Leipzig, GDR, 30 Oct - 4 Nov 1961

STRELTSOV, L.V.; CHERNYKH, G.N.; SHAVORONKOV, N.M.; BABKOV, S.I.;

"Über die zeitliche Annäherung an den stationären Zustand bei der Trennung stabiler Isotope in Kolonnen." (Berechnungen auf einer elektronischen Rechenmaschine)

Third Working Conference on Stable Isotopes, 28 October to 2 November 1963, Leipzig.

1. 44113-56 EWT(1)/EWT(m)/T DS/WW/RO/GW

ACC NR: AP6024433

SOURCE CODE: UR/0362/66/002/007/0770/0771

AUTHOR: Fuks, N. A.; Strel'tsov, L. V.

38
B

ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut)

TITLE: Methodology of investigating large-particle aerosol } settlements in the
surface boundary layer of the atmosphere (6

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 7, 1966,
770-771

TOPIC TAGS: aerosol chemistry, atmosphere, aerosol, aerosol particle

ABSTRACT: A method of fractionation developed at the Institute for Applied Geo-
physics (Institut prikladnoy geofiziki) for investigation of the settling of large aerosol
particles in the surface layer of the atmosphere has been modified and improved by
the authors in order to make it suitable, without laboratory facilities, for investiga-
tions of toxic chemical particles deposited by spraying and dusting for various pur-
poses. The main changes in the process were the use of slurry instead of powder,
making it possible to obtain clearly defined fractions, and the use of alcohol solutions

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UDC 551.508.91

I. 4413-66

ACC NR: AP6024433

of dyes for staining and identification of fractions, the drying process, and the method of counting the particles. Presented in the original article are histograms showing the distribution of fractions according to particle size (ranging from 19.3—233 μ mm) and a diagram indicating the density of individual particles of various magnitude as they settle after being sprayed at an altitude of 2 m from a duster moving perpendicular to the direction of a wind with a velocity of 1.6 m. Orig. art. has: 2 figures. [KP]

SUB CODE: 04/ SUBM DATE: 17Feb66/ ORIG REF: 002/ OTH REF: 000

Card

2/2 *Jo*

KIRKHOGLANI, V.D., arkhitektor; STREL'TSOV, M.B., inzh.

Standard apartment houses of few stories. Biul.tekh.inform. 4 no.10:
17-19 0 '58. (MIRA 11:11)
(Leningrad--Apartment houses)

STREL'TSOV, M.K., kand. tekhn. nauk

Investigating transient processes and calculating basic parameters of controlled crosscut boring machines for steep seams. Ugol' 39 no.7:31-35 J1 '64.

(MIRA 17:10)

1. Donetskii nauchno-issledovatel'skiy ugol'nyy institut.

STREL'TSOV, M.M.

GUSEV, S.O.; CHEKMAREV, N.P.; STREL'TSOV, M.M.

Publicizing experience in operating trains using mechanical re-
frigeration and proposals for improving their use. Vest. TSNII MPS
15 no.2:61 S '56. (MLRA 9:12)
(Refrigerator cars)

VLADIMIRSKIY, V.V.; KOMAR, Ye.O.; MINTS, A.L.; GOL'DIN, I.S.;
MONOSZON, N.A.; RUBCHINSKIY, S.M.; TARASOV, Ye.K.; VASIL'YEV, A.A.;
VODOP'YANOV, F.A.; KOSHKAREV, D.G.; KURYSHEV, V.S.; MALYSHEV, I.F.;
STOLOV, A.M.; STREL'TSOY, N.S.; YAKOVLEV, B.M.

The 7 bev. proton synchrotron. Prib. i tekh. eksp. 7 no.4:5-9
Jl-Ag '62. (MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosu-
darstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR,
Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury
Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii
SSSR i Radiotekhnicheskii institut Gosudarstvennogo komiteta
po ispol'zovaniyu atomnoy energii SSSR.
(Synchrotron)

STREL'TSOV, N.S.; FEDOTOV, G.M.; ROZHDESTVENSKIY, B.V.; GUSTOV, G.K.;
GAMULINA, V.Ye.; NIFONTOV, Yu.L.; INDYUKOV, N.M.; BEZGACHEV,
Ye.A.; KURYSHEV, V.S.

Design of the electromagnet of the 7 bev. proton synchrotron.
Prib. i tekhn. eksp. 7 no.4:15-19 J1-Ag '62.

(MIRA 16:4)

1. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury
Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR
i Institut teoreticheskoy i eksperimental'noy fiziki Gosudarst-
vennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.
(Electromagnets) (Synchrotron)

STREL'TSOV, N. S.
L 13221-35
PE-6/Po-4/P... 137(c)/33D(b)/...
S/...

ACCESSION NR: AP4047415 S/0089/64/017/004/0287/0294

AUTHORS: Gashev, M. A.; Gustov, G. K.; D'yachenko, K. K.; Komar, Ye. G.; Maly'shev, I. F.; Monoszon, N. A.; Popkovich, A. V.; Ratnikov, B. K.; Rozhdestvenskiy, B. V.; Rumyantsev, N. N.; Saksaganskiy, G. L.; Spevakova, F. M.; Stolov, A. M.; Strel'tsov, N. S.; Yavno, A. Kh.

TITLE: Main technical characteristics of the "Tokamak-3" experimental thermonuclear installation

SOURCE: Atomnaya energiya, v. 17, no. 4, 1964, 287-294

TOPIC TAGS: thermonuclear pinch, thermonuclear fusion, plasma research, plasma pinch/Tokomak-3

ABSTRACT: The "Tokamak-3" is intended for the investigation of a toroidal quasi-stationary discharge in the strong longitudinal magnetic field. The toroidal discharge is produced in the vacuum cham-

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ACCESSION NR: AP4047415

ber by a vortical electric field, and acts as an equivalent secondary turn of a pulse transformer. The produced plasma pinch is stabilized with a longitudinal magnetic field of a toroidal solenoid, inside which the vacuum chamber is located. The magnetic core of the pulse transformer carries the primary vortical-field winding, the demagnetization winding, and the winding for induction heating. The set-up is fed from special power systems. The electromagnetic system, the power supply, and the vacuum system are described in some detail. The longitudinal field intensity reaches 40 kG. The vortical field values are 250 and 50 V per turn with pulse durations 10 and 50 milliseconds, and with programming of the waveform such as to maintain a constant current in the plasma pinch. The power supply delivers a peak power of 77,000 kW, maximum 7000 A, no-load voltage 11 kV, and stored energy 180 million Joules. The vortical field is fed from four capacitor banks rated 1000 μF at 20 kV, 11,000 μF at 10 kV, 78,000 μF at 5 kV, and 30,000 μF at 5 kV. The capacitor-bank parameters can be varied over a wide range. The vacuum in the liner does

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L 13221-65
ACCESSION NR: AP4047415

not exceed $1-2 \times 10^{-7}$ mm Hg during the interval between gas admission, with the pressure in the outside chamber being $1-2 \times 10^{-6}$ mm Hg. Orig. art. has: 8 figures.

ASSOCIATION: None

SUBMITTED: 23Nov63

ENCL: 00

SUB CODE: NP, ME

NR REF SOV: 000

OTHER: 000

Card 3/3

STREL'TSOV, M.V.

Monorail track for conveying compressed naphthalene. Sbor.rats.
predl.v proizvod. no.5:46-47, 260. (MIRA 14:8)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Conveying machinery)

KATSEHELENBOGEN, E.D.; IOFIS, Ye.A.; STREL'TSOV, M.V.; SHAMRINSKIY, A.I.;
GHODAKOV, A.I.; ZHERDITSKAYA, N.N., ~~redaktor~~; PANKRATOVA, M.A.,
tekhnicheskiy redaktor

[Laboratory processing of photographic materials] Laboratornaia
obrabotka fotomaterialov. Pod red. E.A.Iofisa. Moskva, Gos.
izd-vo "Iskusstvo," 1956. 200 p. (Biblioteka fotoliubitelia, no.3)
[Microfilm] (MIRA 10:1)
(Photography)

STILL

...distance of range fixers in the "Leupold" type of camera. 407. Foto
(REF: 10:2)

(Camera)

~~STREL'PSOV M~~

Adjusting the objectives in the "Sorkii" type of camera. Nov.
foto 12 no. 8.40-53 Ag '57. (MIRA 1-19)
(Cameras--Equipment and supplies)

KATSANELEHBOGEN, E.D.; IOFIS, Ye.A., kand.tekhn.nauk; STREL'TSOV, M.V.;
SHAMRINSKIY, A.I.; GEODAKOV, A.I.; ZHERDETSKAYA, N.N., red.;
SIDOROVA, A.A., tekhn.red.

[Laboratory processing of photographic materials] Laboratornaia
obrabotka fotomaterialov. Izd.2., ispr. i dop. Pod red. E.A.
Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1959. 206 p. (Biblio-
teka fotoliubitelia, no.3) (MIRA 13:1)

(Photography--Developing and developers)

(Photography--Printing processes)

STREL'TSOV, N.

The exchange of progressive experience is a very important
problem. Muk.-elev. prom. 27 no.9:8 S '61. (MIRA 15:2)

1. Nachal'nik planovogo otдела Krasnodarskogo mel'kombinata.
(Krasnodar—Grain milling)

STREL'TSOV, N.

Increase in labor productivity and decrease in the cost of
production and distribution in the Krasnodar Milling Combine.
Muk.-elev. prom. 28 no.1:3-4 Ja '62. (MIRA 16:7)

1. Krasnodarskiy mel'nichnyy kombinat.
(Krasnodar Territory—Flour mills)

STEEL'TSOV, N.

We are preparing the grain receiving equipment for the intake of corn.
Muk.-elev. prom. 28 no.6:28-29 Je '62. (MIRA 15:7)

1. Nachal'nik planovogo otdela Krasnodarskogo mel'nichnogo kombinata.
(Corn (Maize)) (Grain elevators)

STREL'TSOV, N.

Reducing the loss of corn seed at the Krasnodar Milling Combine.
Mik.-elev.prom. 29 no.1:24-25 Ja '63. (MIRA 16:4)

1. Nachal'nik planovogo otdela Krasnodarskogo mel'nichnogo
kombinata.

(Krasnodar—Grain handling)

STREL'TSOV, N.

Useful seminar for economists. Muk.-elev. prom. 29 no.8:32
Ag '63. (MIRA 17:1)

1. Nachal'nik planovogo otdela Krasnodarskogo mel'nichnogo
kombinata.

STREL'TSOV, N.; NARTYMOV, A.

Traffic organization and safety. Avt. transp. 42 no.8:
46-47 Ag '64. (MIRA 17:10)

ZHELEZNYAKOVA, M.A.; KLYUYEVA, Ya.P.; STREL'TSOV, N.N., redaktor;
AKATOVA, V.G., redaktor; KONYASHINA, ~~tekhnicheskly~~ redaktor

[Construction and operation of gas equipment in public enterprises] Ustroistvo i ekspluatatsiia gazovogo khoziaistva kommunal'nykh predrpiatii. Moskva, Idz-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 218 p. (MIRA 8:10)
(Gas distribution)

STREL'TSOV, N.N., inzhener; SALYNIN, Ye.A., inzhener.

Efficient air testing of welded joints of insulated gas pipes. Gor.
khoz. Mosk. 29 no.12:28-29 D '55. (MLRA 9:3)
(Gas pipes)

STREL'TSOV, N., inzhener.

Insure the safe use of gas water heaters. Zhil.-kom.khoz. 6 no.3:
23-24 '56. (MLRA 9:8)

(Water heaters)

11(3)

PHASE I BOOK EXPLOITATION

SUVT

Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti Moskovskoye pravleniye

Ispol'zovaniye gaza v promyshlennykh pechakh i kotel'nykh ustanovkakh g. Moskvyy i Moskovskoy oblasti; materialy Moskovskogo nauchno-tekhnicheskogo soveshchaniya (Utilization of Gas in Industrial Furnaces and Boiler Units in Moscow and Moscow Oblast'; Materials of the Moscow Scientific and Technical Conference) Moscow, Gostoptekhizdat, 1959. 227 p. Errata slip inserted. 5,000 copies printed.

Ed.: D. B. Ginzburg, Doctor of Technical Sciences; Exec. Ed.: N. I. Stepanchenko; Tech. Ed.: A. S. Polosina.

PURPOSE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric power plants.

COVERAGE: The change-over in some industrial enterprises from solid and liquid fuel to natural gas is discussed and further possibilities existing along this line are examined. Advantages of using natural gas as a source of energy are outlined. Different gas burner systems, devices for automatic control of the combustion process, structural features of furnaces operating on natural

Card 1/4

SOV/2254

Utilization of Gas in Industrial Furnaces (Cont.)

gas, gas-supply systems and the introduction of safety measures in the construction and operation of gas units are described. The book contains many diagrams of gas-supply systems and equipment. No personalities are mentioned. One article is followed by references.

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Kolotyrkin, I. M. Present State and Prospects for Supplying Moscow Industrial Enterprises and Electric Power Stations With Gas 5

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Strel'tsov, N. N., A. I. Belousov, N. M. Reznov, and A. Z. Rokhvarger. Network for Supplying Gas to Industrial Enterprises 28

Stoyunin, G. P. Gas Burners for Boilers and Industrial Furnaces Which Can Use Moscow Town Gas 69

Vigdorchik, D. Ya. Automatic Regulation of Gas Combustion

Card 2/4

Machinery-

188

Utilization of Gas in Industrial Furnaces (Cont.)

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Furman, I. Ya. Problems of the Economic Practicability of Utilizing Gas
in Industry

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Dolotov, G. P., and Ye. A. Kondakov. Safe Utilization of Natural Gas in
the Machinery-manufacturing Plants

216

AVAILABLE: Library of Congress

Card 4/4

TM/mg
10-5-59

STREL'TSOV, N.N., inzh.

Using methods applied in Moscow in protecting underground gas pipes by bituminous coating. Gor.khoz.Mosk. 33 no.10:25-27
0 '59. (MIRA 13:2)

1. "Mospromgaz."
(Moscow--Gas pipes--Corrosion and anticorrosives)
(Protective coatings)

ZHELEZNYAKOVA, M.A.; KLYUYEVA, Ye.P.; SPREL'TSOV, N.N., red.; PANCHENKO,
M.F., red.izd-va; NAZAROVA, A.S., tekhn.red.

[Operation of gas systems of communal enterprises] Eksplu-
atatsiia gazovogo khoziaistva kommunal'nykh predpriatii. Izd.2.
Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 219 p.

(Gas distribution)

(Gas appliances)

(MIRA 13:12)

STREL'TSOV, N.S.

VLADIMIRSKIY, V.V.; KOMAR, Ye.G.; MINTS, A.L.; GOL'DIN, L.L.; KOSHKAREV,
D.G.; MONOSZON³, H.A.; NIKITIN, S.Ye.; RUBCHINSKIY, S.M.; SKACH-
KOV, S.V.; STREL'TSOV, N.S.; TARASOV, Ye.K.

Basic characteristics of the projected 50-60 Bev proton accelera-
tor with alternating-gradient focusing. Atom.energ. no.4:31-33
'56. (MLBA 9:12)

(Particle accelerators) (Protons)

STRELTSOV, N. S., KOMAR, E. G., MONOSZON, N. A., FEDOTOV, G. M.

"Some Structural Features of the 10 GeV Synchrotron Electromagnet,"
paper presented at CERN Symposium, 1956, appearing in Nuclear Instruments,
No. 1, pp. 21-30, 1957

STREL'TSOV, N.S.

ARKHANGEL'SKIY, F.K.; GASHEV, M.A.; KOMAR, Ye.G.; MALYSHEV, I.F.;
MONOSZON, N.A.; STOLOV, A.M.; STREL'TSOV, N.S.

Electric engineering and design problems in constructing large
cyclic accelerators. Elektrichestvo no.11:25-34 N '57.

(MIRA 10:10)

(Cyclotron)

STREL'TSOV, N.S.

VLADIMIRSKIJ, V.V.; KOMAR, Je.G.; MINC, A.L.; GOL'DIN, L.L.; KOSKAREV, D.C.;
MONOSZON, N.A.; NIKITIN, S.Ja.; RUBCINSKIJ, S.M.; SKACKOV, S.V.;
STREL'COV, N.S.; TRASOV, Je.K.; MEDONOS, S., inz. [translator]

Main characteristics of the planned proton accelerator for 50-60
BeV energy with sharp focusing. Jaderna energie 3 no.2:56-57 F '57.

STRELITSOU, A.S.

21(9)
A 1.20-Meter Cyclotron With a Magnetic Pole Diameter
from a diameter polyusor magnets 120 cm

Atomaya energiya, 1959, Vol 7, No 2, pp 148 - 150 (USSR)
The device was developed in the Machine-Isolated
Institute for Electro-physical Apparatus (Scientific Research
with the Institute of Atomic Energy of the USSR (Institute for
Atomic Energy of the USSR). The electro-magnet was designed
by M. E. Indukov, Ye. A. Bagachov, A. V. Krasov, P. G.
1 and 2 are cross sections of the electro-magnet. The radial
field force was measured in such a way that the error in the
center of the field was less than 0.05% of the force of the
field. The error at the measurement of the azimuthal inhomogeneity
of the field was less than 0.007% of the field force

in the center of the field. The position of the magnetic
poles of the magnet and the side of the vacuum chambers
Pirogovskiy. For the correction of the magnetic field inside
rings and discs were used, which are installed between the
poles of the magnet and the side of the vacuum chambers
tional views are given). The measurements, the construction
method and the assembly of the resonance conductor and of the
duants are described in detail (there are sectional views). The
acceleration chamber and the resonance conductor (there is a
detailed sketch) were constructed by A. I. Alyab'yev, I. P.
Zukov, M. M. Ruyantsev under the supervision of B. I. Pro-
buck diagrams and there is a short description of part of it.
The high-frequency section was developed by G. M. Drablin,
B. V. Vassilevskiy and R. Yu. Protosovskiy under the super-
vision of A. I. Alyab'yev. The electro-magnet was designed by
Ye. A. Bagachov, A. V. Krasov, P. G. Indukov, M. E. Indukov,
I. M. Mikhailov, and M. M. Kravtsov. The electro-magnet
is of special importance at the central part of the cyclotron
was thoroughly studied by I. M. Makropin. He developed a special
deflector system. The focusing system was computed by I. G.

Card 1/4

Card 2/4

A 1.20-Meter Cyclotron With a Magnetic Pole Diameter - 30V/89-7-2-6/24
Magnit. The magnetic quadrupole lenses of the cyclotron
from production 11.7 mm of deuterons while the stream route
of the particle flux can be up to 1 ma. There is a guided
beam of 100-200µ at disposal for normal work and the beam
is focused to a plane of 15.20 mm. The control desk, signal
equipment and the special electrical installations were de-
signed by V. S. Lyublin, B. B. Nevrov, P. S. Gornikel' working
under the guidance of G. S. Gorneychik. Similar cyclotrons,
constructed in the USSR, are in operation in Romania, China,
Poland and GDR. In the near future a cyclotron of a similar
type will be completed in the GDR. The first cyclotron of
this type was tested in 1950 by L. R. Saulin, R. M. Letunov-
skiy, Yu. G. Zaslavin, A. V. Spasov, G. M. Krasov, B.
Vassilev, Ye. A. Bagachov, A. V. Krasov, P. G. Indukov, M. E.
Indukov, I. M. Mikhailov, and M. M. Kravtsov. The electro-
magnet was designed by A. I. Alyab'yev and M. A. Meshcherov from the
Institute for Atomic Energy of the USSR. The magnetic
quadrupole lenses were tested at the cyclotron of the AS USSR
(AS USSR) with the participation of V. A. Kostin. The is-
trication of the cyclotron was supervised by A. V. Iosadlevskiy,

Card 3/4

A 1.20-Meter Cyclotron With a Magnetic Pole Diameter 30V/89-7-2-6/24
L. E. Fedulov, V. Romanov and K. A. Artyev. Ye. G. Kozar
development of the cyclotron. The electro-magnet was designed
by V. S. Lyublin, B. B. Nevrov, P. S. Gornikel' working
under the guidance of G. S. Gorneychik. Similar cyclotrons,
constructed in the USSR, are in operation in Romania, China,
Poland and GDR. In the near future a cyclotron of a similar
type will be completed in the GDR. The first cyclotron of
this type was tested in 1950 by L. R. Saulin, R. M. Letunov-
skiy, Yu. G. Zaslavin, A. V. Spasov, G. M. Krasov, B.
Vassilev, Ye. A. Bagachov, A. V. Krasov, P. G. Indukov, M. E.
Indukov, I. M. Mikhailov, and M. M. Kravtsov. The electro-
magnet was designed by A. I. Alyab'yev and M. A. Meshcherov from the
Institute for Atomic Energy of the USSR. The magnetic
quadrupole lenses were tested at the cyclotron of the AS USSR
(AS USSR) with the participation of V. A. Kostin. The is-
trication of the cyclotron was supervised by A. V. Iosadlevskiy,

Card 4/4

SUBMITTED: March 12, 1959

STREL'TSOV, N. S.

3/05/60/050/0-2/002/001
8614/002

26.2311

Glubikh, V. A., Kozar, Ye. G., Larentey, P. A.,
Kalyshin, I. P., Monoson, M. A., Stokov, A. M., and
Strel'tsov, N. S.

Technical Data and Main Parameters of "Alifa" Research
Installation

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,
pp. 1394 - 1403

NOTE: The results obtained by calculation were checked during planning
of this research installation on a model having the scale 1/20. The fol-
lowing essential data were given: Mean diameter of the torus: 3200 mm,
diameter of the cross section: 1000 mm. Margin of energy of the capaci-
tor battery: 1500 kilojoules. Field strength of the rotational field:
0.2-8 v/cm. Maximum field strength of the magnetic longitudinal field:
1500 oer. Maximum discharge current: 300 ka. Leakage intensity of the
six turns of the primary coil: 1.6-10⁻⁷ henries. Maximum induction of
the magnetic conductor with a discharge current of 300 ka: 12,000 Gauss.

Card 1/4

Weight of the magnetic conductor: 110 t. Weight of the vacuum chamber:
4.5 t; total weight 156 t. The magnetic conductor is made of J-42 (S-42)
transformer steel, the primary coil for the rotational field consists
of 25 turns of a copper tube having a diameter of 26 mm. The coil for
the longitudinal field consists of 40 single coils having 25 turns each.
Cross section, constructed from 40 single coils having 25 turns each.
Current supply is discussed on the basis of the chamber. A high-frequency
generator is used in the chamber. The outer chamber consists of 27 mm Al-sheets,
the inner chamber of 0.2 mm stainless steel, and at the brushings, it is
filled with 2 mm sheets. The vacuum system consists of 8 diffusion
pumps, two pre-vacuum pumps, and one booster pump. L. B. Zinaburg,
D. Ye. Savarin, Ye. L. Mikhailis, B. I. Prodarnov, B. V. Bryzhdantevskiy,
D. G. Savarin, et al. took part in developing this research installa-
tion. There are 7 figures.

Card 2/4

ASSOCIATION: Nauchno-Issledovatel'skiy Institut elektrofizicheskoy
apparatury (Scientific Research Institute of Electro-
physical Apparatus)

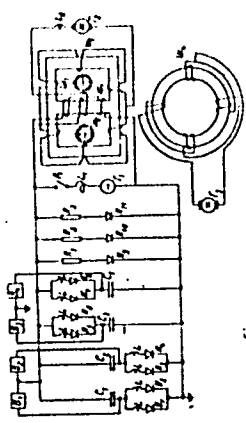


Fig. 4

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Legend to Fig. 4: 1) 3, 4 are thyatron rectifiers. 2) 1, 2 are
ignitrons. 3) 1, 2 and 3 are generators for degaussing
and for the longitudinal field.

10736

S/120/62/000/004/001/047
E039/E420

AUTHORS: Monoszon, N.A., Strel'tsov, N.S., Ostrovskiy, N.A.

TITLE: The basic electromagnetic parameters of the 7 Gev proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 10-15

TEXT: The basic parameters of the electromagnet system are given in detail, e.g. number of C-magnets 98; number of quadrupole lenses 14; azimuthal length of each block 1910 mm; maximum strength of magnetic field 8475 Oe; radius of curvature of equilibrium orbit in C-blocks 31 m; aperture of chamber 110 x 80 mm²; rise time of the magnetic field 1.55 sec; number of working cycles per minute 10 to 12. The tolerances in the geometrical dimensions necessary to produce a field of the required accuracy are considered, together with the characteristics of the steel used. Special coils are provided to compensate for perturbations produced by residual magnetism at the beginning and end of the working cycle, and for the effect of eddy currents in the steel. A decrease in magnetic permeability of the magnetic system can also be allowed for. Cross-
Card 1/2

The basic electromagnetic ...

S/120/62/000/004/001/047
E039/E420

sectional diagrams are given of the C-blocks showing the interpolar space. The upper and lower poles have a hyperbolic contour. Coordinates of the boundary of the hyperbolic and neutral poles were calculated and verified by using a model electromagnet. The configuration of and the fields produced by the quadrupole lenses is also discussed. A description of the layout of the main magnetic field exciting coils is given followed by additional data on the magnet system, e.g. maximum excitation current 2500 A; excitation current at 7 Gev 2200 A; time constant of excitation coils 1.7 sec; weight copper 120 tons; weight steel 2500 tons; voltage on coils at the beginning of the cycle 5000 V; peak power 25000 KW. The method of regulating the field is also described. There are 10 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy apparaturyy GKAE (Scientific Research Institute for Electrophysical Apparatus GKAE)

SUBMITTED: April 6, 1962

Card 2/2

L0737

S/120/62/000/004/002/047
E032/E514

246730
AUTHORS: Strel'tsov, N.S., Fedotov, G.M., Rozhdestvenskiy, B.V.,
Gustov, G.K., Gamulina, V.Ye., Nifontov, Yu.L.,
Indyukov, N.N., Bezgachev, Ye.A. and Kuryshev, V.S.

TITLE: The construction of the electromagnet for the 7 GeV
proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 15-19

TEXT: A description is given (including sectional drawings) of the electromagnet. The electromagnet incorporates four types of magnetic sections, namely: 1) bending sections for radial focusing (total number 42), 2) bending sections for radial defocusing (total number 53), 3) bending sections for radial defocusing, located at points of beam extraction (total number 3), and 4) quadrupole lenses with zero field on the orbit (total number 14). The magnetic circuits of all the sections are assembled from insulated steel sheets (the chemical composition of the steel is similar to Э2 (E2) steel). The hyperbolic pole faces were made on a special milling machine and have a curvature of 2780 cm in the horizontal plane. The system used to retain the

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The construction of the ...

S/120/62/000/004/002/047
E032/E514

steel sheets in position was such that the deformation of the hyperbolic face was $\pm(0.1-0.15)$ mm after two days and ± 0.03 mm after two months. The design of the neutral pole faces of the bending magnets was such that their deformation and the electro-dynamic stresses did not exceed 0.05 mm. The main winding consists of 48 turns connected in series and arranged in ten sections. The winding is made of rectangular copper piping which was manufactured by the Leningrad factory "Krasnyy Vyborzhets". In addition to the main winding, there are three compensating coils which are used to correct the magnetic field. Water cooling is used and the insulation is sufficient to withstand 2 kV. The extracting magnets, which are used to extract the beam into the experimental area, consist of a main coil (8 turns; copper piping) and two compensating coils (8 turns each; copper piping). Finally, the quadrupole lenses carry an 18 turn main winding and an 18 turn auxiliary winding, both in the form of copper piping. In order to facilitate the positioning of all the electromagnets, each of them carried special markers which were used to relate their position to the appropriate points

Card 2/3

The construction of the ...

S/120/62/000/004/002/047

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653520009-0"

on the basic geodesic grid. Special mechanisms were used to adjust the magnets. They can be adjusted by ± 2 cm in the vertical plane to an accuracy of 0.001 cm and by ± 8.5 cm in the radial direction to an accuracy of 0.002 cm. The former adjustment is made with the aid of special wedges and the latter by a screw-driven mechanism. The azimuthal adjustment is made by simple wedge devices and can be achieved to an accuracy of ± 0.05 cm. There are 6 figures.

ASSOCIATIONS: Nauchno-issledovatel'skiy institut elektro-fizicheskoy apparatury GKAE (Scientific Research Institute of Electrophysical Apparatus GKAE) and Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)

SUBMITTED: April 6, 1962

Card 3/3

STREL'TSOV, N.S.

3/092/42/012/006/003/019
B102/B104

34-720

AUTHORS: Vladimirskiy, V. V., Komar, Ye. G., Mints, A. L.,
Gol'din, L. L., Monoszon, N. A., Rubchinskiy, S. M.,
Tarasov, Ye. K., Vasil'yev, A. A., Vodop'yanov, F. A.,
Fonkharev, D. G., Kuryshch, V. S., Malyshev, I. F., Stolov,
A. M., Strel'tsov, N. S., Yakovlev, B. M.

TITLE: The design of the 7-Bev proton synchrotron

PERIODICAL: Atomnaya energiya, v. 12, no. 6, 1962, 472-474

TEXT: The history of the first Soviet cyclic accelerator with rigid focusing is briefly described, and the most important data on its planning and operation are presented. Planning was started in 1953. The parameters of this proton accelerator, the energy of which exceeds the antineutron production threshold, were so chosen that the dependence of the orbital circumference on the particle momenta was completely compensated. This was achieved by employing 14 quadrupole magnets with orbits of negative curvature. Technical data: output current, 10^{10} protons/pulse; maximum field strength, 8475 oe; length of equilibrium orbit, 251.2 m; radius of
Card 1/2

11

S/C89/42/012/CC6/003/019
B102/B104

The design of the 7-Bev ...

curvature of the trajectories in the bending magnets (C), 31 m, and in the compensation magnets (X), 10; number of magnetic sectors, $90C + 14X$; gap length between the C-magnets, 304.0 mm; gap length around the X-magnets, 417.5 mm; index of the decrease in field strength, 460; internal height and width of the chamber, 60 and 110 mm, respectively; number of betatron oscillations per revolution, 12.75, and per periodic element, 0.91; number of magnets per periodic element, 8; total critical energy, 19.2 Bev; maximum deviation of the periodic orbit with 100%; deviation of the momentum from the equilibrium momentum, 1.47 m; rate of energy increase per revolution, 4.5 kev; duration of one cycle, 1.55 sec; 10-12 cycles/min; particle revolution frequency at the beginning of the cycle, 0.11 Mc/sec, and at the end, 1.19 Mc/sec; frequency of synchrocyclotron oscillations, 3600 and 150 cps; weight of the electromagnet steel, 2500 tons; maximum power of the supply system, 25 Mw; Van de Graaff injector (particle energy, 7.8 Mev; field strength 90 oe); admissible deviations from field strength and field gradients, $\sim 10^{-3}$; deviations at the chamber edge due to nonlinearities, $\sim 10^{-2}$; admissible frequency deviation of the accelerating field at the beginning of the cycle, 10^{-3} , and at the end, $5 \cdot 10^{-5}$. There are 1 figure and 1 table.

SUBMITTED: March 12, 1962
Card 2/2

S/076/63/037/003/013/020
B101/B215

AUTHORS: Selivanova, N. M., Leshchinskaya, Z. L., Strel'tsov, N. S.

TITLE: Formation heat of cadmium selenite

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 3, 1963, 668-670

TEXT: The standard heat of formation of CdSeO_3 was determined calorimetrically by causing CdCl_2 to react with Na_2SeO_3 . Radiographically amorphous CdSeO_3 was obtained and $\Delta H_{298}^{\circ} = -137.04$ kcal/mole was found on the basis of data obtained by F. Rossini et al. (Selected values of chemical thermodynamic properties, Washington, 1952). The integral heat of solution of crystalline Na_2SeO_3 is -7.05 kcal/mole for a concentration of 1 : 400. There are 1 figure and 2 tables.

ASSOCIATION: Moskovskiy ordena Lenina khimiko-tekhnologicheskii institut imeni D. I. Mendeleyeva (Moscow "Order of Lenin" Institute of Chemical Technology imeni D. I. Mendeleev)

~~Gen 1/2~~

L 43088-65 EWT(m)/ EPA(w)-2/EWA(m)-2 Pab-10/Pt-7 IJP(c) JT/GS
ACCESSION NR: AT5C07918 S/0000/64/000/000/0197/0201

AUTHOR: Vladimirov, V. V.; Gol'din, L. L.; Koshkarev, D. G.; Tarasov, Ye. K.;
Yakovlev, B. M.; Gusev, G. K.; Komar, Ye. G.; Kulikov, V. V.; Malyshev, I. F.;
Morozov, N. A.; Popkovich, A. V.; Stolov, A. M.; Strel'tsov, N. S.; Titov, V. A.;
Vodopyanov, F. A.; Kuz'min, A. A.; Kuz'min, V. F.; Hints, A. L.; Rubchinakiy,
S. M.; Uvarov, V. A.; Zhadanov, V. M.; Filaretov, S. G.; Shirayev, F. Z.

TITLE: 60-70 Gev Proton Synchrotron

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy.
Moscow, Atomizdat, 1964, 197-201

TOPIC TAGS: high energy accelerator, synchrotron

ABSTRACT: A 60-70 Gev proton synchrotron with strong focusing is being constructed
not far from Serpukhov, as has been reported earlier (e.g. "Research Institute for
Electro-Physical Equipment, Leningrad," in Proceedings of the International Confer-
ence on High Energy Accelerators and Instrumentation (CERN, 1959), p. 373). The
present report describes parameter changes and improvements in precision structural
characteristics of the accelerator, and the present state of construction in mid-
1963. The parameters of the magnet are presented in a table. A small change in
the original plans permitted an increase in the length of a part of the free
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L 43088-65

ACCESSION NR: AT5007918

sections, some of which are utilized for input and exit of beams. The super-period design is described. The lengthened sections were obtained as a consequence of shortening the focusing and defocusing blocks by 112 cm. The focusing properties of the magnetic channel were diminished consequently, but very little; and the limiting energy was lowered by 2-3 Gev. The construction of the magnet is described. Each of the magnetic blocks is divided lengthwise into 5 sub-blocks which are enveloped by the common winding. These sub-blocks consist of laminar two-millimeter silicon steel. These steel sheets were stamped out without subsequent mechanical working, and were subjected to sorting and intermixing in order to smooth out their magnetic characteristics. The sub-blocks are constricted by lateral welded plates without adhesion. Provision was made for windings on the poles in order to correct for pole nonlinearity and for variations in the drop reading. These windings make it possible to introduce artificial quadratic (square) nonlinearity that changes the dependence of the frequency of transverse oscillations during a pulse. In order to correct for straying of the residual field, provision has been made for windings on the yoke in series with the main winding. The sub-blocks must undergo calibration on a magnet stand in order to make correcting systems more precise and to determine the most convenient disposition of the sub-blocks along the ring. The winding of the electromagnet is made of aluminum busbars with hollow cores for cooling water. The length of the busbar is so selected that there would be no

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L 43088-05

ACCESSION NR: AT5007918

2

welded joints inside the coils. The winding consists of 4 sections, two of which are disposed on the upper pole and two on the lower. The most important characteristics of the electromagnet and power supply system are described in a table. Also described are the vacuum chamber and accelerating field (obtained by 53 paired resonators with ferrite rings, which operate at the 30-th harmonic of revolution and give accelerating potential of 350 kilovolts). The ring tunnel and the general arrangement of the accelerator are shown in figures and described. The building for the injector and portions of the ring tunnel from the injector to the experimental room have been completed in the main and are ready for installation of equipment. This room, in the form of a single-aisle building without internal supports, permits one to work on beams brought into the inner and outer sides. A 90-meter arch covers this room, whose overall length is 150 meters. Provisions have been made for a second experimental room at the southwest part of the ring. Orig. has 4 figures, 2 tables.

ASSOCIATION: Institute teoreticheskoy i eksperimental'noy fiziki GKAE SSSR (Institute of Theoretical and Experimental Physics, GKAE SSSR). (2) Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury imeni D. V. Yefremova GKAE SSSR (Scientific Research Institute of Electrophysical Apparatus, GKAE SSSR).

Card 3/4

L 43088-65

ACCESSION NR: AT5007918

(3) Radiotekhnicheskiy Institute AN SSSR (Radio Engineering Institute, Academy of Sciences SSSR). (4) Gosudarstvennyy proyektnyy institut GKAE SSSR (State Planning Institute, GKAE SSSR). 2

SUBMITTED: 26May64

ENCL: 00

SUB CODE: EE, NP

NO REF SOV: 002

OTHER: 001

am
Card 4/4

GASHEV, M.A.; GUNTOV, S.K.; D'YACHENKO, K.E.; KOMAR, Ye.G.; MALYSHEV,
I.F.; MONGOSOV, N.A.; POPKOVICH, A.V.; RATHIKOV, B.K.; ROZHDESTVENSKIY,
B.V.; ROMYANTSEV, N.N.; SAKSAGANSKIY, G.I.; SPEVAKOVA, F.M.; STOLOV,
A.M.; STREL'TSOV, N.S.; YAVID, A.Kh.

Principal mechanical characteristics of the experimental thermo-
nuclear plant "Tokamak-3." Atom. energ. 17 no.4:287-294 O '64.
(MIRA 17:10)

Strel'tsov, O. A.

Kinetics of synthesis of ammonia in the absence of diffusional retardation. A. N. Gerasenkov, M. T. Kuzov, and O. A. Strel'tsov (Dokl. Akad. Nauk SSSR, 1964, 9, 1015-1018).--The logarithm of the rate constant K for the synthesis of NH_3 on Arsenic iron, oxidized with steam at 450-470° to Fe_2O_3 , and then immersed in $\text{Al}(\text{NO}_3)_3$ solution and dried, are inversely proportional to $1/T$, indicating an energy of activation of 59.0 ± 1.0 kg.-cal./mole, somewhat greater than that obtained on porous catalysts (40-48 kg.-cal.). The constancy of the values of K over a wide range of NH_3 flow rates suggests that Temkin and Pyshova's (1938) kinetic equations scheme described the process under these non-diffusional conditions.
R. C. MURRAY.

STREL'TSOV, O. A.

USSR/Chemistry - Catalysts

Card : 1/1 Pub. 116 - 18/20

Authors : Strel'tsov, O. A. and Rusov, M. T.

Title : Kinetics of reduction of individual grains of an ammonium catalyst

Periodical : Ukr. khim. zhur. 20, Ed. 4, 438 - 446, 1954

Abstract : The kinetics of hydrogen reduction, of individual grains (of various size) of a technical ammonium catalyst, was investigated in isothermal conditions in a quasi-dynamic system at pressures ranging from 0.8 kg/cm², flow rate of 42 liters/hr and gradual temperature increase from ~300 to ~500°C. It was established that the process of catalyst grain reduction is retarded by the internal diffusion exchange of the reaction components. The effect of grain size reduction on the activity of the catalyst, is explained. Seven references: 6-USSR and 1-U. ainian (1937-1950). Tables; grapns; drawing.

Institution : Acad. of Sc. Ukr-SSR, The L. V. Pisarzhevskiy Institute of Phys. Chemistry

Submitted : January 5, 1954

GERASENKOVA, A.N.; RUSOV, M.T.; STRML'TSOV, O.A.

Kinetics of the synthesis of ammonia in conditions free of
diffusive inhibition. Dokl. AN SSSR 96 no.5:1015-1016 Ja '54.
(MLBA 7:7)

1. Institut fizicheskoy khimii Akademii nauk USSR. Predstavleno
akademikom A.N. Frumkinym.
(Ammonia)

STREL'TSOV O. A.

U S S R .

The effect of reduction conditions on the activity of the smooth surface of an iron catalyst. A. N. Gerasenkova, M. T. Rusoy, and O. A. Strel'tsov. *Doklady Akad. Nauk S.S.S.R.* 96, 1170, 1954. O. A. Strel'tsov, *Dissertation*, L. V. Pisarzhevskii Inst. Phys. Chem., Acad. Sci. Ukr. S.S.R., Kiev, 1949.—The effect of reduction conditions in prepn. of an Fe catalyst on its activity was studied by the flow-circulation method. The sample was a thin, smooth Fe foil promoted with Al_2O_3 . The effect of the rate at which the gas mixt. was removed from the reaction vessel during the reduction on the activity of the catalyst was detd. The results show that the faster the gas mixt. is removed, i.e., the less water vapor in the circulating gases, the higher the catalytic activity. J. Rovtar Leach

Streltsov, O.D.