"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

Barskiy, M.P.; CHEKHOVSKAYA, T.P., red.izd-va; MOCHALINA, Z.S., tekhn.red.

[Instructions of safety engineering for boiler firemen tending gas furnaces] Pamiatka po tekhnike bezopasnosti dlia kochegara, obsluzhivaiushchego gazovye topki. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 22 p. (MIRA 15:2)

(Boilers--Safety measures)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.P.; SEGEYEV, Ye.I., inzh., nauchnyy red.; PROKOF'YEV, V.I., red.izd-va; RYAZANOV, P.Ye., tekhn.red.

[Safety manual for operators of mobile electric power plants] Pamiatka po tekhnike bezopasnosti dlia mashinista peredvizhnykh elektrostantsii. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 21 p. (MIRA 15:4)
(Electric power plants—Safety regulations)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.P.; ZHURAVLEV, B.A., red.izd-va; TARKHOVA, K.Ye., tekhn. red.

[Safety manual for boiler firemen tending gas furnaces] Pamiatka po tekhnike bezopasnosti dlia kochegara, obsluzhivaiushchego gazovye topki. Izd.2., dop. i perer. Moskva, Gosstroiizdat, 1963. 31 p. (MIRA 16:8)
(Boilers—Safety measures)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.R., kand.tekhn.nauk; SERDINOVA, I.N., kand.tekhn.nauk; RAKOV, V.A., red.; VERINA, G.P., tekhn.red.

[Increasing tractive and braking capacities of electric locomotives] Uluchshenie tiagovykh i tormoznykh svoistv elektrovozov. Moskva, Gos.transp.zhel-dor.izd-vo. 1952. 181 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.64) (MIRA 12:1)

(Electric locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

GARSKIY, M. R.

[illegible]

[illegible] Calculation of the [illegible] braking characteristics for [illegible] with [illegible] of the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

The method suggested can be applied equally well to calculate the characteristics of [illegible] and rheostatic braking with [illegible] of the exciter, being based on the most general case of a circuit with speed regulator in which the e.m.f. of the exciter depends on braking current as well as on speed of the movement. The method remains equally accurate when a speed regulator is absent. The braking characteristics relating train speed and parameters of braking circuit may be used to obtain the real characteristics for given circuit parameters, or optimum braking characteristics when conditions of train movement and circuit parameters are known; alternatively, it is possible to obtain a number of variants of the braking characteristics for the choice of the circuit parameters for new types of traction equipment. In the first two cases, the wiring connections of the traction motors, resistances in the traction circuit and load characteristics of traction motor and exciter are usually known, whereas in the third case, when the design data of the exciter are unknown, universal magnetization curves for machines of a similar type may be used and the calculation carried out in per-units, the required values can be obtained by a ready approximation. Numerical examples for all these cases are fully worked out.

[illegible]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.R., kandidat tekhnicheskikh nauk; KASTER, I.M., inzhener.

Consultation on electric traction equipment in Riga. Elektrichestvo no.3:86-88 Mr '54. (MLRA 7:4)

1. Sovet nauchnykh inzhenerno-tekhnicheskikh obshchestv Latviyskoy SSR. (Riga--Electric railroads--Equipment and supplies)
(Equipment and supplies--Electric railroads--Riga)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

112-3-5978

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957 Nr 3, p. 134 (USSR)

AUTHOR: Barskiy, M. R.

TITLE: Electric Braking of Motorcar Trains (Elektricheskoye tormozheniye motorvagonnykh sektsiy)

PERIODICAL: In Sbornik: Materialy nauch.-tekhn. soveshchaniya po tyagovomu elektrooborudovaniyu, November 1953, Riga, 1955, pp. 52-55

ABSTRACT: It is pointed out that 5,000 to 10,000 brake shoes are expended every year by each nine-car electric train consisting of units of the CP type. In one year, such a train produces 30 to 50 tons of cast-iron dust, some of which enters the electrical equipment of the car, the devices of the signal, centralization and blocking system (STsB), and of the communication system. The use of rheostatic electric braking with self-excitation of the traction motors is suggested, similar to the braking system in use in subway trains. For this purpose, traction motors with 750 v on the commutator are

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112-3-5978

Electric Braking of Motorcar Trains (Cont.)

required for suburban trains. Comparative traction computations indicated that the losses for starting, which increased up to 40% (2.8 watt-hours per ton), are compensated for by an improvement in efficiency of the motors at high speeds. With a commutator voltage of 750 v, the starting system can be simplified and commutation stability is increased. (Riga Electric Machine Plant) I.V.I.

ASSOCIATION: Riga Electric Machine Plant (Rizhskiy elektromashinostroitel'nyy zavod)

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY M.R.

112-2-3513

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p.146 (USSR)

AUTHOR: Barskiy, M.R.

TITLE: Operating Experience and the Results of Standard Tests of Electrical Equipment on CP-3 Electric-Car Sections (Opyt ekspluatatsii i rezul'taty tipovykh ispytaniy elektrooborudovaniya motor-vagonnykh sektsiy CP-3)

PERIODICAL: In Sbornik: Materialy nauch.-tekhn. soveshchaniya po tyagovomu elektrooborudovaniyu, Noyabr' 1953, Riga, 1955, pp.143-162

ABSTRACT: The production of the CP-3 sections with improved electrical equipment designed to operate on a single, 3,000 volt network voltage has begun to replace the two voltage-CP electric car sections. The design of power circuit equipment for traction motors and production processes have been considerably simplified. The sections consist

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of one motor and two trailer cars. The cars are 19.3 m long. The motor car weighs 62 tons and the trailer car weighs 39 tons. Maximum speed is 85 km/hr. The average hourly speed is 65 km/hr. The acceleration is 0.45 m/sec^2. Braking deceleration is 0.6 to 0.7 m/sec^2. The motors have a capacity of 4 x 198-Kw; the motor weighs 2,550 kg. The d-c generator-motor-generator set weighs 1,070 kg and operates at 1,100 rpm. The dynamotor develops a power output of 5.5 kw, the generator, 4.5 kw. The capacity of the motor-compressor is 6.2 kw and 1,650 v at 50 per cent of series excitation. Motor starting, switching from series to parallel motor connection, skidding-protection relay and overload relay operation, auxiliary-motor protection and the extent of heating of

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

112-2-3513

Operating Experience and the Results of Standard Tests (Cont.)

starting and damper resistances are described in detail. On the whole the train operated satisfactorily during 25 test runs. The minor imperfections found are to be eliminated in the future production of this series. [The Riga Electric Motor Construction Factory.]

I.V.I.

ASSOCIATION: The Riga Electric Motor Construction Factory (Rizhskiy elektromashinostroitel'nyy z-d.)

Card 3/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.R.

112-3-5981

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957 Nr 3, p. 134 (USSR)

AUTHOR: Barskiy, M. R.

TITLE: Electrical Equipment of Experimental Air-Conditioned Railroad Passenger Cars (Elektrooborudovaniye opytnykh passazhirskikh vagonov s ustanovkoy dlya konditsirovaniya vozdukha)

PERIODICAL: In Sbornik: Materialy nauch.-tekhn. soveshchaniya po tyagovomu elektrooborudovaniyu, November 1953, Riga, 1955, pp. 163-173

ABSTRACT: The Riga Electric Machinery Plant produces the electrical equipment for two experimental air conditioner units for all-metal passenger cars. The units are electro-mechanical and are provided with a Freon compressor. Power for each unit is supplied by two generators, each weighing 575 kg and with a power output of 11.2 kw, with a drive to the wheel axle. The air conditioner units are fully automated. Due to the special power supply for the units (two generators per car),

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

Electrical Equipment of Experimental Air-Conditioned (Cont.) 112-3-5981

they are very heavy and complex. With a central a-c power supply, the design of the entire air conditioner unit can be simplified considerably. (Riga Electric Machine Plant). I.V.I.

ASSOCIATION: Riga Electric Machine Plant (Rizhskiy elektromashinostroitel'nyy zavod)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

SOV/112-58-2-2340

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 91 (USSR)

AUTHOR: Barskiy, M. R.

TITLE: The Electrical Equipment and Automatic Control Systems of Suburban-Train Motor Coaches (Elektrooborudovaniye i sistemy avtomaticheskogo upravleniya motornykh vagonov prigorodnykh poyezdov)

PERIODICAL: V sb.: Raboty M-va elektrotekhn. prom-sti SSSR po mekhaniz. i avtomatiz. nar. kh-va. 2. M., 1956, pp 25-33

ABSTRACT: The fundamental technical data of the C_3^P train section as now built by Soviet industry are: voltage 3 kv, motor-coach one-hour rating 720 kw, one-hour and maximum speeds 59 and 85 km/h respectively, average acceleration and deceleration 0.45 and 0.70 m/sec^2 respectively. The type DK 103G series-wound traction motor has a supporting-axis suspension. The train has automatic remote control. The principal control device is a controller that effects resistance starting by individual contactors through accelerating relays and switches over the traction motors. A new Type ER 1 electric train has been developed and built. It consists of 5 motor coaches and 5 trailers, of which 3

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SOV/112-58-2-2340

The Electrical Equipment and Automatic Control Systems of Suburban-Train . . . .

are intermediate, while 2 terminate the train and have control stations. Bringing the number of traction axles up to 50% and increasing the train (20-DK 106B) power brought the maximum speed to 130 km/h and the starting acceleration to 0.7 m/sec^2. The weight of the traction motor per unit power has been reduced by 23%, and is 11 kg/kw. The motor has a self-contained supporting-frame suspension and is connected to the axle by a kardan coupling and a single-step gear. Electrical-equipment weight has been considerably reduced (by 26%). The automatic control system of the ER 1 is almost identical with that of the C_3^P. An original system of automatically-controlled regenerative-and-rheostatic braking has been developed, and is scheduled to be used in 24-m-long ER 5 electric trains from 1957 on. Simplified power-circuit diagrams of the C_3^P and ER 5 are presented, as well as control-circuit diagrams with rheostatic controllers and individual contactors.

B.N.G.

Card 3/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M. R.

[illegible] NIY, M.R., kandidat tekhnicheskikh nauk; ZALESSKIY, [illegible]

The ER-1 electric train; equipment and circuits. [illegible] i tepl. tiaga no.3:13-18 Mr '57. (MIRA 10:[illegible])

(Electric locomotives)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Moisey Rafailovich, kand.tekhn.nauk; KOLESNICHENKO, Vitaliy Onufriyevich, inzh.; KASTER, Yefim Samuilovich, inzh.; SHIRYAYEV, A.P., inzh., red.; VERINA, G.P., tekhn.red.

[The ER1 electric train] Elektropoezd ER1. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 165 p. (MIRA 12:1)
(Electric railroads)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BATALOV, Nikolay Mikhaylovich; PETROV, Boris Petrovich; BARSKIY, M.R., kand. tekhn.nauk, retsenzent; KRICHKO, A.I., inzh., retsenzent; STEPANOV, A.D., doktor tekhn. nauk, retsenzent; SIDOROV, N.I., inzh., red.; LARIONOV, G.Ye., tekhn. red.

[Electric traction machinery] Tiagovye elektricheskie apparaty. Moskva, Gos. energ. izd-vo, 1961. 207 p. (MIRA 15:3)
(Electric machinery) (Electric railroads)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.R.; ZVORYKIN, M.L.; SURGUCHEV, I.V.; CHERKEZ, V.M.; SHENDEROVICH, M.Ye., retsenzent; SARANTSEV, Yu.S., red.; USENKO, L.A., tekhn. red.

[Electric equipment and air-conditioning systems for passenger cars] Elektrooborudovanie i konditsionirovanie ovzdukha passazhirskikh vagonov. [By] M.R.Barskii i dr. Moskva, Transzheldorizdat, 1963. 234 p. (MIRA 16:12)
(Railroads--Passenger cars--Air conditioning)
(Railroads--Electric equipment)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Moisey Rafailovich, kand. tekhn.nauk; GLUSHKOV, Mikhail Tikhonovich, inzh.; GONCHAROV, Konstantin Borisovich, inzh.; ZALESSKIY, Lev Grigor'yevich, inzh.; LALETIN, Geryat Pavlovich, inzh.; LYNYUK, Leonid Savvovich, inzh.; KAPUSTIN, L.D., red.

[The ER9 electric train] Elektropoezd ER9. [By] M.R. Barskii i dr. Moskva, 1964. 239 p. (MIRA 18:1)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, M.B., kand. tekhn. nauk; GLUSHKOV, M.G., inzh.

Improvement of the electric multiple unit rolling stock. Zhel. dor. transp. 46 no.5:34-40 My '64. (MIRA 18:2)

1. Rukovoditel' laboratorii perspektivnykh razrabotok Rizhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta vagonostroyeniya (for Barskiy). 2. Zamestitel' direktora Rizhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta vagonostroyeniya (for Gluzhkov).

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, O.B.

Characteristics of certain vegetative reactions in hypertensive adolescents. Pediatriia 37 no.7:13-16 Jl '59. (MIRA 12:10)

1. Iz otdela rabochego podrostka (rukovoditel' - kand.med.nauk V.M.Levin) Leningradskogo nauchno-issledovatel'skogo instituta gigiyeny truda i profzabolevaniy (dir. - doktor med.nauk Z.E. Grigor'yev).

(HYPERTENSION, physiol.
autonomic NS in adolescents (Rus))
(AUTONOMIC NERVOUS SYSTEM, in var. dis.
hypertension in adolescents (Rus))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

LEVIN, V.M., kand.med.nauk; RUTENBURG, E.S., kand.med.nauk; BARSKIY, O.B., mladshiy nauchnyy sotrudnik

Volume of the physician's consultative work in the school. Gig. i san. 25 no. 12:68-71 D '60. (MIRA 14:2)

1. Iz otdela rabochey molodezhi Nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy, Leningrad.

(SCHOOL HYGIENE)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, O.B.

Determination of some hemodynamic indices, magnitude of the vital capacity and maximal ventilation of the lungs. Vrach. delo no.1:112-114 Ja'64 (MIRA 17:3)

1. Otdel rabochey molodezhi (rukovoditel' - kand. med. nauk V.M.Levin) Leningradskogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, R. G.

USSR/Electricity
Motors, Synchro
Exciters, Synchro

Sep 48

"The Problem of Starting Synchronous Motors With Constant Excitation" R. G. Barskiy, Engr., MSPTI, 1 3/4 pp

"Vest Elecktro-Prom" No 9

Describes three methods of coping with subject problem, with three circuit diagrams

[redacted]

PA 32/49T5

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

DARSKIY, R.G.

"Rational Reserves of Electrical Equipment for Shaft Hoisting Machines," Gor., Zhur., No. 9, 1948

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S.M., inzh.; ZEKTSER, D.M., inzh.

On Engineer A.L. Kats' article. Vest.elektrotrom. 28 no.8:77-78 Ag '57. (MIRA 10:10)

1.Zavod "Transsvyaz'."
(Automatic control)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

SOV/110-59-5-4/25

AUTHORS: Barskiy, S.M., Engineer and Zeksser, D.M., Engineer

TITLE: Plug-In Type Coding Relay (Kodovyye rele shtepsel'nogo tipa)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 5, pp 16-18 (USSR)

ABSTRACT: Plug-in "coding" relays type KDRSh are used in remote-control equipment when it is important to be able rapidly to replace one relay by another. They differ from relays type KDR only in the use of the plug-in connections. A catalogue-style description is then given of the panels in which the relays are mounted. Four variants of the relay with various time-characteristics and contact arrangements are then briefly described. The sockets into which the relays plug are briefly described. Photographs are given of typical relays and sockets, also an assembled relay panel. Overall dimensions of relays and sockets are given in Table 1. The electrical characteristics of the relays are stated and the mechanical characteristics appear in table 2. The delay times obtainable are given in table 3. The relay is guaranteed for a million operations at currents not

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Plug-In Type Coding Relay SOV/110 59-5 4/25

exceeding 2 A or five million on half this current provided that the contacts are cleaned and the springs adjusted after every million operations. There are 4 figures and 3 tables.

SUBMITTED: 18th September 1958

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

KAPUSTA, A.A., inzh.; KONDRASHEV, I.V., inzh.; BARSKIY, S.M., inzh.

The [illegible]62 adapter. Avtom., telem. i svyaz' 8 no.7:4-6 Jl '64. (MIRA 17:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

KAPUSTA, A.S., inzh., BESPALOV, B.N., BARSKIY, S.M.

A set of generators with stabilized frequency. Avtom. telem. i sviaz' 8 no.9:1-5 S '64. (MIRA 17:10)

1. Glavnyy konstruktor otdela Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey sooobshcheniya na zavode "Transsvyaz'" (for Kapusta, Bespalov).
2. Nachal'nik otdela Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey sooobshcheniya na zavode "Transsvyaz'" (for Barskiy).

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

F A

4665. COLLIERY WINDER WITH RECTIFIER SUPPLY. Baraki, S.Z. (Elektrichestvo, Apr. 1949, (4), 29-38). A brief survey is given of work on supply of mining winding and hauling drives by Hg rectifiers. The various systems developed are described and compared, the Ward-Leonard system serving as a general standard of comparison. The method of selecting the most appropriate type of supply is illustrated by the practical example of a 400 k.W. unit. The chief components of such a system are described in detail, test results and charactertistics being given. S.A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

PA 64/49T32

USSR/Electricity
Electrical Equipment
Drives

Jul 49

"The Possibility of Compounding a Drive Motor in Leonard's Reversing System," S. Z. Barskiy, Cand Tech Sci, "Elektroprivod" Trust, Min of Elec Ind, 6 pp

"Vest Elektro-Prom" No 7

Notes desirability in many reversible industrial motor drives (metallurgical and ore-processing machinery, etc.) of use of compounding. Use of anticompounding power-supply generators solves this problem only in [redacted]

64/49T32

USSR/Electricity (Contd) Jul 49

certain limited cases. Electric motor amplifiers make it possible to achieve compounding by using normal shunt motors. In this case, compounding will be effective during reverses, and permits a simple solution of a number of other problems. Presents diagrams, basic parameters, and characteristics of system and several variations of scheme (including double compounding.)

[redacted]

64/49T32

BARSKIY, S. Z.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

USSR/Electricity - Electric Drives
Regulators

May 50

"Analysis of Electric Drive Systems With Falling Characteristics," S. Z. Barskiy, Cand Tech Sci, Cen Sci Res Lab of Elec Drives and Automatics, "Elektroprivod" Trust

"Elektrichestvo" No 5, pp 35-43

Principles of limiting current, voltage, speed, acceleration, and power of regulated drive with electric machine control. Gives graphic methods of calculating drive characteristics, taking account of nonlinearities -- generator saturation and

167T9

USSR/Electricity - Electric Drives
(Contd)

May 50

varying resistance of dry-disk rectifiers. Results of experiments on medium-power installation, including oscillograms and characteristics taken over wide range of load variation. Submitted 4 Nov 49.

167T9

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

USSR/Electricity - Motors, Induction Converters — Jun 51

"An Induction Machine Cascade With an Ionic Converter," S. Z. Barskiy, Cand Tech Sci, Moscow

"Elektrichestvo" No 6, pp 37-46

Gives basic variations of circuits of an induction machine cascade with an ionic converter. Derives eqs for emfs and currents and presents equiv circuits and vector diagrams for elec and electromech

200T14

USSR/Electricity - Motors, Induction (Contd) — Jun 51

cascades. Deduces basic relationships of the torque and power of the cascade as a function of slip when the end machines have different excitation circuits. Gives the conditions of crit compounding. Examines automatic elec-machine control for cascade systems. Describes cascade systems recommended for a multimotor drive. Submitted 29 Mar 50.

200T14

BARSKIY, S.Z.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S. Z.

"Reserves of High Precision of Statistical Regulating of Automatic Electro-Control," Electricity, Publ. by the Printing House of the Govt. Energy (Electrical) Publ. House, in Moscow, 1952.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S. Z.

PA 237T14

USSR/Electricity - Electric Drive

Jun 52

"Use of Latent System Potentialities for Increasing the Accuracy of Static Regulation of Automatic Electric Drive," Cand Tech Sci S.Z. Barskiy, Moscow

"Elektrichestvo" No 6, pp 37-41

Describes method for calcg accuracy of static regulation of motor-generator type electric drive with wide range of speed control. Examines principles behind control of drive with variable feedback and gives procedure for calcg such systems. Cites variations of parametric systems with variable feedback and shows methods for their calcn. Submitted 24 Nov 51.

237T14

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

USSR/Electricity - Electrical Machines Dec 52
Ferromagnetism

"Longitudinal-Transverse Magnetization and its Occurrence in Electrical Machines," Cand Tech Sci, S. Z. Barskiy, Moscow

"Elektrichestvo" No 12, pp 22-28

Examines effects occurring in the longitudinal-transverse magnetization of ferromagnetic circuits when both fluxes are constant and when one is variable. These effects occur in elec machines and exptl results are included. The principle has been used for ferroresonance

242T23

circuits and parametric oscillator circuits, as well as for static ferromagnetic frequency doublers and multipliers (e.g., the original frequency converter designed by G. N. Petrov and M. S. Mikhaylov-Mikulinskiy). Submitted 21 Apr 52

242T23

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S. Z.

Electrical Engineering Abstracts
May 1954
Machines

1891. Some problems of the synchronized induction motor. S. Z. BARSKIĬ. *Elektrichestvo*, 1953, *No.* 11, 45-52. *In Russian.*

The main propositions of the theory of the synchronized induction motor are expounded. Relations for the currents, e.m.f.'s and powers in various conditions of excitation and loading are derived and the corresponding vector diagrams plotted. A rational scheme of motor excitation assuring the most favourable thermal conditions is selected. The calculation of currents and powers of the machine for optimum utilization of the active materials while maintaining statical stability is also shown.

D. I. KRAVS

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S. Z.

AID P - 1898

Subject : USSR/Electricity

Card 1/2 Pub. 29 - 3/25

Author : Barskiy, S. Z., Kand. of Tech. Sci.

Title : Industrial use of a two-induction-motor drive and some of its advantages

Periodical : Energetik, no.2, 7-11, F 1955

Abstract : Depending on conditions and working requirements, a two-motor drive presents several advantages in comparison with a single-motor drive, according to the author, who enumerates them as follows: 1) possibility of minimum utilization of required equipment; 2) increase in dependability because of the opportunity of using either set of equipment; 3) significant economy in energy achieved by operating just one of the motors when the work is light; 4) elimination of waste because of the comparatively smaller fly-wheel weight;

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

AID P - 1898

Energetik, no.2, 7-11, F 1955

Card 2/2 Pub. 29 - 3/25

5) facilitated handling of smaller units. The shortcomings of a two-motored asynchronous drive are the larger space required and the higher outlay of initial capital involved. The author describes the operation of a two-motored asynchronous drive under various circumstances with 7 diagrams.

Institution: None

Submitted : No date

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARS'KIY, S.Z.

On V.I. Ivanenck's article: "Comparing three control methods used in automatic control systems." Avtomatyka no.3:91-95 '56. (MLRA 9:11)
(Automatic control)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

SOV/110-59-1-2/28

AUTHOR: Barskiy, S.Z. (Candidate of Technical Sciences)

TITLE: An Analysis of the Influence of Variable Temperature Conditions on the Characteristics of Controlled Electrical Machines (Analiz vliyaniya peremennykh temperaturnykh rezhimov na kharakteristiki reguliruyemykh elektricheskikh mashin)

PERIODICAL: Vestnik Elektropromyshlennosti, 1959, Nr 1, pp 3-9 (USSR)

ABSTRACT: Temperature variations can cause important changes in the characteristics of electrical machines. In studying this question it is necessary to note that variations depend both upon the heat-losses in the machine and the ambient temperature. The upper temperature-limits of machines are set by the class of insulation, and the lower limit by the ambient temperatures met in industry, which in large open shops may be taken as 0°C. Over this temperature range the resistance of a winding is a linear function of temperature. A machine with class B insulation is considered and Fig 1 gives graphs of the changes with temperature of the static and dynamic characteristics of a d.c. amplidyne running at constant speed with independent excitation. The shaded areas

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

An Analysis of the Influence of Variable Temperature Conditions on the Characteristics of Controlled Electrical Machines SOV/110-59-1-2/28

represent the range of characteristics that can be encountered at different temperatures. The behaviour of a shunt generator when the field-winding temperature is altered is next considered. Open-circuit voltage curves as a function of excitation are shown in Fig 2, in which the shaded area represents changes that result from temperature variations. It will be seen from the curves that if the field-winding temperature exceeds 210°C the machine will not excite. The influence of temperature is particularly important in generators with critical self-excitation as it can cause considerable alterations in their amplification factor, as may be seen from Fig 3. The influence of temperature on the dynamic characteristics of electrical machines is then considered, noting that although the transient processes are accompanied by transient thermal effects they are not important because the thermal time-constants of the machines are always relatively large. The variations with time of the main parameters of the transient process of separately-excited generator are given in Fig 4 for

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SOV/110-59-1-2/28

An Analysis of the Influence of Variable Temperature Conditions on the Characteristics of Controlled Electrical Machines

various field-winding temperatures. The way in which the rate of voltage build-up depends on these temperatures will be seen by the extent of the shaded area. Temperature effects may be greater in inter-connected machines and cascade circuits than in the individual machines composing them. Considering an open cascade circuit without internal interconnections, a diagram of which is given in Fig 5, the output e.m.f. as a function of the circuit parameter subject to the influence of temperature is given by expression (1). The corresponding expressions for the machines hot and cold are derived and plotted in Fig 5. It is shown that in one particular three-machine system the accuracy of regulation alters by a factor of 2.4 on changing from the cold to the hot condition. Transient processes and machine stability are then considered in a similar way. Fig 6 refers to a three-machine closed control system and gives calculated curves of the changes with time of the main parameters. The temperature variation limits of the individual machine and the values of the electromagnetic and thermal

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SOV/110 59-1 2/28

An Analysis of the Influence of Variable Temperature Conditions on the Characteristics of Controlled Electrical Machines

time constants are given on the same figure. With quite small changes of temperature in the individual machine the resulting amplification factor alters appreciably with time as the machines warm up changing from an initial value of 12 to a final value of about 5. It is shown that the stability of the machine can also be adversely affected. In conclusion, the results are given of tests to demonstrate the influence of temperature on the characteristics of the open three-machine system already shown in Fig 5. The results are plotted in Fig 7, showing the input and output voltages and currents in the hot and cold condition as functions of time. It will be seen that even though the temperature range is quite small the alteration in the characteristics is considerable. The article shows how great may be the influence of temperature on the static and dynamic characteristics of machines and machine systems. This effect is likely to become more important as designs are tightened up and machines come to be used under more difficult conditions. There are certain measures that should sometimes be taken

Card 4/5

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SOV/110-59-1-2/28

An Analysis of the Influence of Variable Temperature Conditions on the Characteristics of Controlled Electrical Machines

to reduce the influence of temperature; for example, field windings of generators and exciters should be made to operate with low current-density. Low-power excitation control and feed-back circuits should include temperature compensators in the form of resistances with low temperature-coefficients. The use of open-type machine systems should be avoided because of the very marked influence of temperature on their characteristics. In designing it is important to check that the characteristics will be all right at temperature extremes, and if the system is not very stable the effect of transient temperature conditions in the machines should also be checked.
There are 7 figures.

SUBMITTED: April 7, 1958

Card 5/5

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovannomu elektroprivodu v promyshlennosti. 3d, Moscow, 1959

Elektroprivod i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sud, and N.F. Silayev; Tech. Eds.: K.P. Voronin, and G.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

COVERAGE: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan USSR (State Planning Commission USSR), the GNTK SSSR, the Gosudarstvennyy Komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the Natsional'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Controls) and prepared by the Nauchno-tekhnicheskiy komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIEM, the IAT (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission on the Technology of Machine Building of the Institute of Science of Machines of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic controls of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to non-contact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume V of NII EP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

PART I. GENERAL PROBLEMS CONCERNING THE THEORY AND PRACTICE OF ELECTRIC DRIVE AND AUTOMATION OF CONTROL

Slezhanovskiy, O.V., Candidate of Technical Sciences. Noncontact Control Systems of Reversing D-C Drives 87

Sheremet'yevskiy, N.S., Doctor of Technical Sciences, V.G. Antsiferov, S.T. Lipskiy and Ye.I. Lipskiy, Candidates of Technical Sciences, and [illegible], Engineers. Automatic Speed Regulation of a Certain Class of D-C Drives 95

Ertinger, Ya.L., Candidate of Technical Sciences. Present State and Prospects of the Development of Electronically Controlled Electric Drives* 104

Chilikin, M.G., and D.P. Morozov, Professors, Doctors of Technical Sciences, and L.M. Tverdin, Candidate of Technical Sciences. Pulse Regulation of D-C Motor Speed 110

Shevchenko, G.I., and V.A. Labunisov, Docents, Candidates of Technical Sciences, and I.N. Borzenko and V.V. Popov, Engineers. Electronic Frequency Changers for the Supply of Induction Motors 116

Morozov, D.P., and M.G. Chilikin, Professors, Doctors of Technical Sciences, and N.G. Lysenkov, Candidate of Technical Sciences. Pulse Control and Regulation of Electric Machine Excitation by Means of Electronic Converters 118

Sukalov, V.F., Engineer. Tube Converter-Inverter With a Wide Range of Secondary Frequency Regulation 122

Bardinskiy, S.I., Engineer. Contact Semiconductor Converter for Gas-Tube Controlled Drives 125

Shteyn, I.M., Engineer. Frequency Control of a Micromotor 127

Kossov, O.A., Engineer. D-C Drive With a Semiconductor Pulse Rectifier 130

Sokolov, M.M., Docent, Candidate of Technical Sciences, V.M. Terekhov, Candidate of Technical Sciences, and A.V. Shinyanskiy, Engineer. Field of Application of Induction Electric Drives With Saturable Reactors 133

Lyubavin, A.M., Engineer. Adjustable Electric Drive With Magnetic Amplifiers* 138

Alenchikov, D.A., Engineer. Methods of Calculating Characteristics of D-C Drive With Reactor Control 141

BARSKIY, S.Z.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

S/110/63/000/002/001/002
A055/A126

AUTHOR: Barskiy, S.Z., Candidate of Technical Sciences

TITLE: On the reliability of electric machines

PERIODICAL: Vestnik elektropromyshlennosti, no. 2, 1963, 55 - 58

TEXT: This article (a continuation of the articles published on the same subject in Vestnik Elektropromyshlennosti, no. 9, 1962) is essentially a criticism of the work of N.A. Tishchenko "Problem nadezhnosti elektricheskikh mashin" (Problem of the reliability of electric machines), no. 11, 12, 1961. The following items are criticized: 1) The data on the number of electric motors put out of service owing to breakdowns are incorrect; for instance, the figure of 13% of the total number of motors operating in the ferrous metal industry plants is exaggerated, being in contradiction with the official data for the Magnitogorsk ferrous metal industry combine (11.7% in 1951, 5% in 1955, 4% in 1960). 2) The recommendations to cease production of certain types of motors and to refrain from the introduction of other types are not well-founded. Tishchenko disregards the fact th - the machines put out of operation because of their age or owing to

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S.E., kand.tekhn.nauk; SHEREMET'YEVSKIY, N.N., doktor tekhn. nauk

Problems concerning the generation of electric power with increased frequency. Vest.elektroprom. 33 no.12:54-60 D '62.

(Electric power production) (MIRA 15:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, S.Z., kand.tekhn.nauk

Concerning the reliability of electrical machines. Vest. elektroprom. 34 no.2:55-58 F '63. (MIRA 16:2)
(Electric machinery)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

MARSKIY [illegible], kand.tekhn.nauk

Some problems in designing asynchronous stages. Elektrichestvo no.3:50-55 Mr '62. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhaniki.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARNIKOV, G.V., kand.tekhn.nauk

Performance of an asynchronous machine under overload conditions. Elektrotekhnika 35 no.12:13-15 D '64.

(MIRA 18:4)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V., inzh.

Powerful miniature hydrocyclone. IUn.tekh. 6 no.2:27-30 '62. (MIRA 15:2)

(Separators (Machine))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.

Magnetic fields and water. IUn.tekh. 6 no.4:27-30 Ap '62.
(MIRA 15:6)

(Magnetic fields)
(Water)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.A.; PERCHIK, D.Ya.; SKORBACH, A.M.

Introducing a high-speed noncontact control system for the main drive. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no.6:43-44 Je '65.

(MIRA 18:7)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

L 39729-66 EWT(d)/EWT(1)/EWP(k)/EWP(h)/EWP(e)/EWP(1) [illegible]

ACC NR: AP6007339 SOURCE CODE: UR/0292/66/000/002/0019/0021

AUTHOR: Barskiy, V. A. (Engineer)

ORG: none

TITLE: Quick-response electric drive with reversible thyristor exciter

SOURCE: Elektrotekhnika, no. 2, 1966, 19-21

TOPIC TAGS: electric motor, ~~MG-set~~, thyristor, rolling mill

ABSTRACT: A new quick-response MG-set-motor drive system is described which a 10 I_{nom} per sec armature-current rate-of-change is attained by using a special-waveform generator-field forcing. Developed by NIIelektro, a new thyristor exciter (see figure) has a delay determined only by the rectifier-inverter transition and by the time constant of a totaling magnetic amplifier with its filter (if the amplifier is used). The quick response is a result of using a reversible system which controls the rectifier groups separately. The difference between a reference-element voltage and the generator voltage is applied to the exciter. An oscillogram of the acceleration-deceleration process in a 1000 amp drive corroborates its quick-

Card 1/3

UDC: 621.3.078 [illegible]

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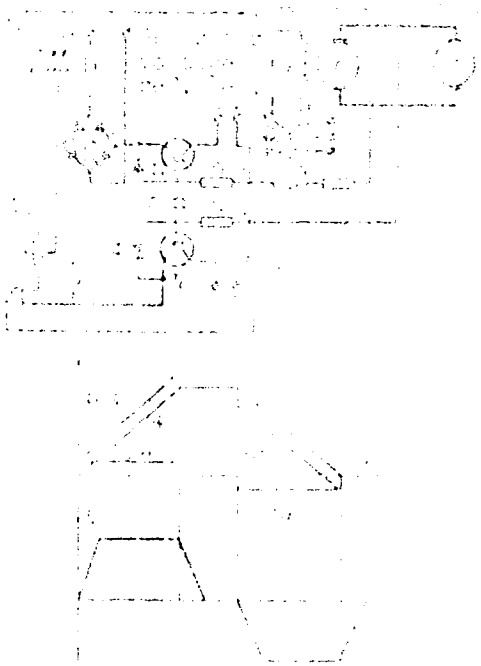
ACC NR: AP[illegible]



Control circuit for a quick-response reversible drive (upper);
Acceleration and deceleration diagram (lower).

Card 2/3

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L 39729-66

ACC NR: AP6007339

response characteristics. Such a drive cut by 40% the time of operation of the screwdown gear in a 1150-mm slabbing mill. Orig. art. has 4 figures and 3 formulas.

SUB CODE: 11, 09 / SUBM DATE: none / ORIG REF: 002

Card 3/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.B.

Determination of the critical path and related problems ([illegible] the use of electronic computers). Tekh. i org.[illegible] v stroi. i proek. no.1:15-2[illegible] '64. (MIRA 18:10)

1. Trest 'Kiyevorgtekhstroy' Glavnogo upravleniya po zhilishchnomu i [illegible] Kiyevskogo [illegible] ispolnitel'nogo komiteta.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

SEMUKHINA, G.V.; BARSKIY, V.D.; NOSKOV, V.V.

Photometric determination of small amounts of pyridine bases in phenols. Zhur.anal.khim. 19 no.9:1155-1158 '64. (MIRA 17:10)

1. Kuznetskiy filial Vostochnogo nauchno-issledovatel'skogo instituta, Novokuznetsk.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.D.; MOSKOV, V.V.

Determining the optimum conditions for the colorimetric analysis of phenols. Zav.lab. 31 no.3:342-344 '65.
(MIRA 18:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSELY, V.G., inzh.

[illegible] and possibilities [illegible] them in water-purification stations. Nov. tekh.zhid.-kom.khoz.[illegible] i kan. no.2:51-62 '63. (MIRA 17:9)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.G.

Method of determining the doses of lime in the stabilized processing of water. Nauch. trudy AKKH no.22:86-90 '63. (MIRA 18:5)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.I.

Examination and treatment of dysentery patients. Sov.med. 21 Supplement:7-8 '57. (MIRA 11:2)
(DYSENTERY)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

PRAVDIN, Aleksandr Andreyevich; BARSKIY, V.N., otvetstvennyy redaktor; KONTOROVICH, A.I., tekhnicheskiy redaktor

[Construction of ships hulls] Konstruktsiia korpusa sudov. Leningrad, Gos.soiuz.izd-vo sudostroit. promyshl., 1956. 470 p. (MLRA 9:8)

(Hulls (Naval architecture))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.S., referent.

Smelting manganese alloys from poor ores. Biul. TSNIICHM no.5:57-58 '58. (MIRA 11:5)

(Manganese—Metallurgy)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

ZELENIN, A.V.; BARSKIY, V.Ye.; DANIL'TSEVA, G.Ye.

Problems of biology and medicine at the 13th All-Union Conference on Luminescence. Izv. AN SSSR. Ser. biol. no.2:319-320 Mr-Ap '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

MEYSEL, M. N.; MANTEYFEL, V. M.; BARSKIY, V. Ye.; POGLAZOVA, M. N.

"Fluorescent cytochemistry of cell damage, necrobiosis and intracellular digestion."

report submitted for 2nd Intl Conf, Histochemistry & Cytochemistry, Frankfurt, 18-21 Aug 64.

Moscow.
Inst Physico-Chemical & Radiation Biology, AS USSR, Vavilov Street 32, Moscow B-312.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, V.Ya.; IVANOV, V.B.; FUSHAKOVA, T.K.

Luminescence microscopic study of the distribution and accumulation of proteins in plant roots. Izv. AN SSSR. Ser. biol. no.6:916-921 N-D '65. (MIRA 18:11)

1. Institut molekulyarnoy biologii AN SSSR i Opytnenskaya laboratoriya Instituta obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

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39187

S/262/62/000/007/006/016
I007/1207

26 120

AUTHOR: Barskiy Y.

TITLE: The Pirna 014 gas turbine for jet engines

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 7, 1962, 41–42, abstract 42.7.188. "Motortechn. Z", v. 22, no. 10, 1961, 398–400 [Abstracter's note: original language German]

TEXT: The People's Pirna Plant (German Democratic Republic) designed for medium-range passenger planes, a single-shaft (spool) gas turbine of the Dirna type, having the following characteristics: thrust 3300kg; air consumption 53 kg/sec.; specific fuel consumption 0.85 kg/kg.hr; rotational speed 8100 rpm; weight 1050 kg; diameter 980 mm; length 3450 mm; Compressor parameters: 13 stages, axial flow, compression ratio $5/c = 7$, efficiency 0.83. Characteristics of driving turbine: two stages, efficiency 0.90. Gas temperature at the turbine inlet 1070°K. The ring-shaped combustion chamber has 12 fire tubes;chamber efficiency 0.98; pressure losses 2.5%; non uniformity of temperature distribution less than 50°C; sevice life of conbustion chamber 1000 hours. The gas turbine rotor is supported by three slide bearings. The turbine shaft is connected to the compressor shaft by a slit coupling. The gas turbine engine is started by means of a 6 Kw electric starter. The acceleration rate of the gas turbine engine is very favourable: the time of shifting from idle running

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Ya.N.

In the electrical repair shops of the "October Revolution Railroad." Avtom., telem. i sviaz' 5 no.10:26 O '61. (MIRA 14:9)
(Railroads--Repair shops)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Ya. S.

"Raising the Yield of the Vineyard," Vin. SSSR, No.4, 1952

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

1. BARSKIY, YA. S.

2. USSR (600)

4. Grapes

7. Extensive selection of grape stock by negative signs. Sad i og. no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

1. BARSKIY, YA. S.

2. USSR (600)

4. Viticulture

7. Rejuvenating the vineyard. Sad i og. No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

1. BARSKIY, YA. S.

2. USSR (600)

4. Virticulture

7. Introducing a system of half-convering grapevines for winter. Vin SSSR 13 No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

1. BARSKIY, Ya. S.

2. USSR (600)

4. Viticulture

7. Large-scale selection of grape vines. 13, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Yu.P.

2

Physicochemical analysis of vitamins. The systems ascorbic acid–hydrazine monohydrochloride and ascorbic acid–aniline hydrochloride. A. F. Kapustinskii and Yu. P. Barskii (D. I. Mendeleev Chem. Technol. Inst., Moscow). *Bull. acad. sci. U.R.S.S., Classe sci. chim.* 1946, 558–9.—The melting diagram of the system $C_6H_8O_6$–$N_2H_4.HCl$ has a sharp max. at 130°, corresponding to the equimol. compd. $C_6H_8O_6.N_2H_4Cl$. The max. in the system $C_6H_8O_6$–$PhNH_2.HCl$, at about 130°, is less sharp, but still indicates the compd. $C_6H_8O_6.PhNH_2Cl$. Some amt. of decompn. along $PhNH_2.HCl + C_6H_8O_6 \rightarrow PhNH_2.C_6H_8O_6 + HCl$ does take place. N. Thon

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, YU. P.

Thermographic method for determination of heat effects. A. P. Kapustinskii and Yu. P. Barskii. *Izvest. Sektora Fiz.-Khim. Anal., Akad. Nauk S.S.S.R.* 20, 317-25(1950). — Thermographs, although important in chem. research, furnish at best qual. information, e.g., the temp. and the sign of the thermal effect. They do not give the magnitude of the effect nor the heat capacity. To obtain this information it is necessary to ascertain the duration of the stop, the difference in temp. between the sample and the furnace, and the coeff. of heat transfer. Since the latter depends to a large extent on the nature of the sample, it is particularly hard to det., except for metals. In the proposed method the control of the heat delivered to the sample is outside the sample itself and therefore independent of its properties. This is attained by placing the studied sample inside a nonconducting shell and maintaining a const.-temp. gradient between its outside and inside walls. Under such conditions the quantity of heat absorbed by the sample is calcd. from $Qm = k\Delta t\Delta z$, where Δz is the duration of the stop in min., Δt is the temp. difference, k is the coeff. of heat transfer, m is the wt. of sample, and Q the thermal effect. For a case having no heat capacity (c) (air gap) $dQ = mcdt$; $dQ = k\Delta tdz$. Then $mc = [k\Delta t/(dt/dz)]$ and $Q/c = \Delta z(dt/dz)$. Where the shell has a heat capacity, the accuracy decreases as the difference in the heat capacities of shell and sample increases. The shell should be calibrated against substances of known c with reference to temp. and to rate of heating. A device for obtaining quant. thermographs designed in accordance with above conditions and a circuit for operating it automatically are described.

M. Hosch

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

Physical basis for a new heat measurement method. [illegible] Trudy Vsesoyuz. Nauch. Issledovatel. [illegible] No. 6, 143-60. Referat. Zhur., Khim. [illegible] For detn. of the amt. of heat absorbed or radiated by ceramic objects during the firing and cooling, an app. with differential recording is used. In this arrangement the control of the heat entering the object is accomplished by measuring the temp. gradient in a diathermal case covering the material investigated. The material is placed in a crucible which is inserted in a closed metallic or fire-resistant container, the inner wall of which is coated with low heat cond. material. The temp. difference between the inner and outer surfaces of the layer is measured by differential thermocouples. The temp. of the object is measured by a sample thermocouple whose junction is imbedded in it. The container with the sample is placed in the oven, the temp. of which is regulated according to normal procedure. Both thermocouples are connected to the regulating and registering arrangements. N. Vasileff

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Yu. P., Cand Tech Sci -- (diss) "Development of a Method of Quantitative Thermography." Mos, 1958. 12 pp ~~(Min Higher Ed USSR, Mos Inst~~ (Min Geol and ~~Protection of the Entrails of the Earth~~ Conservation of Mineral Resources USSR. All-Union Sci ~~Research~~ Res, Inst Min Raw Materials VIMS). 200 copies (KL 40-58, 114)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

15 2600

S/081/61/000/021/046/094
B149/B 101

AUTHOR: Barskiy, Yu. P.

TITLE: Method and apparatus for measuring the thermophysical properties of ceramic materials

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 299, abstract 21K177 (Stroit. keramika. Inform. tekhn. sb., no. 2(6), 1960, 22-30)

TEXT: A method for a one-stage determination of the thermophysical coefficient has been based on a combined determination of the specific heat by direct measurement of the heat flow and thermal diffusivity under regular thermal conditions of the first kind. A basic diagram is given for apparatus used for measurement of the thermophysical coefficient, as well as the experimental procedures and the evaluation of results. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

S/081/62/000/011/023/057
E194/E184

AUTHOR: Barskiy, Yu.P.

TITLE: A calorimeter for thermal analysis

PERIODICAL: Referativnyy zhurnal, Khimiya, no.11, 1962, 167, abstract 11 E19. (Tr. Gos. Vses. n.-i. in-t stroit. keramiki, no.15, 1960, 159-166).

TEXT: A detailed description is given of a calorimetric equipment for a new method of quantitative thermography termed the thermal analysis method. The installation consists of a furnace containing a calorimeter, a device for automatic control of the furnace temperature according to a set programme, and a device for recording the test specimen temperature and also the temperature difference across the diathermal envelope of the calorimeter. The calorimeter has a body of heat-resistant alloy within which fits the diathermal envelope; this latter contains a platinum crucible. The inner space of the crucible is split up by radial platinum fins to accelerate temperature equalisation. The diathermal envelope (0.5 - 0.8 mm thick)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

A calorimeter for thermal analysis S/081/62/000/011/023/057
E194/E184

is made of a compound of the following percentage composition: fired alumina 50%, fired kaolin 30%, feldspar 20%, bound with wax. Temperature measurements were made by means of a Pt - Pt/Rh-thermocouple. The furnace is so constructed that the calorimeter is in a zone of even temperature.

[Abstractor's note: Complete translation.]

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9.6000

S/081/62/000/006/041/117
B101/B110

AUTHOR: Barskiy, Yu. P.

TITLE: Methods of measuring and recording the temperature parameters in quantitative thermography

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 160, abstract 6Ye55 (Tr. Gos. Vses. n.-i. in-t stroit. keramiki, no. 15, 1960, 167 - 174)

TEXT: An apparatus for quantitative thermography with recording of the thermo-emf on photographic paper by means of mirror galvanometers is described. The optical method of scale extension is used to record both the background and the exothermic and endothermic effects on 470 mm wide photographic paper. The principle of the method consists in that the galvanometer mirror is illuminated simultaneously by several illuminators which are so arranged that after one reflex has passed along the slit of the recording camera the following reflex passes, etc. In the recording camera a kymograph drum with Warren motor is used. It has been found that the best antivibration support for mirror galvanometers is a textolite box with transformer oil placed upon four tennis balls. The

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Methods of measuring and ... S/081/62/000/006/041/117
B101/B110

system for protection from inductions, checking, and the elimination of errors due to nonlinearity of the differential recording scale and to the zero drift of the galvanometer are described. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Yu.P., kand.tekhn.nauk

Method of calibrating apparatus and calculations in thermal analysis. Trudy NIIStroikeramiki no.16:149-162 '60. (MIRA 15:2)
(Ceramic materials—Testing)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Y. P.

"Thermal Analysis as a Method of Investigation of Heat and Mass Transfer with Phase Conversion."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Y. P.

"Measurement of a non-stationary Heat Flow and New Methods of Investigation of Thermal Properties."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

S/081/62/000/009/037/075
B166/B101

AUTHOR: Barskiy, Yu. P.

TITLE: Development of an automatic temperature control device for thermal analysis

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 349, abstract 9I141 (Tr. Gos. n.-i. in-t stroit. keramiki, no. 17, 1961, 79-96)

TEXT: This article describes the results of work on selection of the working principle and on designing an automatic temperature regulator. Two methods of analysis were used, on assuming steady heating of the furnace in accordance with a specific temperature program and the other a constant temperature difference at the diathermic casing. In the course of the experiments the "three-position", the "impulse", the "proportional" and the "derivative" methods of regulation were tried. An installation (described in the article) was worked out which achieves a regulation accuracy within 0.5% of the temperature difference at the casing, i.e. of less than 0.001. By way of example a thermogram for Prosyanaya kaolin is

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Development of an automatic ... S/081/62/000/009/037/075
B168/B101

reproduced as taken by the apparatus using the 1st and the 2nd method of analysis. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

ACCESSION NR: AP4009838 S/0191/64/000/001/0062/0064

AUTHORS: Shlenskiy, O.F.; Barskiy, Yu. P.; Pichugin, N.P.

TITLE: Heat capacity and heat conductivity of plastics as determined during their destruction by heat

SOURCE: Plasticheskiye massy#, no. 1, 1964, 62-64

TOPIC TAGS: plastic thermodestruction, plastic heat conductivity, plastic heat capacity

ABSTRACT: Due to destruction of plastics by heat at elevated temperatures, thermophysical λ and $c\gamma$ coefficients not only depend on the temperature but also on time. To study these relationships, a special furnace, described in detail, was devised which assured a heat increase of 100 per second. Tests were made with the ED-6 epoxy resin at temperatures from 0 to 6000 and heat conductivity λ (in kcal/m-hr-degree) and heat capacity $c\gamma$ (kcal/m^3) were determined and plotted for different rates of temperature increase. It

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

ACCESSION NR: AP4009838

has been found that the density of the plastic and, thus, $c\gamma$ decrease at temperatures above the beginning of destruction. Heat conductivity λ also decreases because of gas pockets formed in the mass. When destruction is completed, both coefficients rise again with rising temperature. Not only temperature but the rate of its increase in time influence these coefficients. Maximum heat conductivity coefficients for epoxy resins were determined. Orig. art. has 5 figures, 4 formulas, no tables.

ASSOCIATION: None

SUBMITTED: 00 DATE ACQ: 10Feb64 ENCL: 00

SUB CODE: CH NO REF SOV: 003 OTHER: 000

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

MEYERSON, S.I.; ZAGRAYEVSKAYA, I.M.; BARSKIY, Yu.P.

Temperature dependence of the heat capacity of amorphous and crystallizing polymer gels. Koll.zhur. 26 no.1:141-142 Ja-F '64. (MIRA 17:4)

1. Moskovskiy tekstil'nyy institut.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKIY, Yu. P.

"Methods and apparatuses for investigation of thermophysical and thermochemical constants in a wide temperature range."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Sci Res Inst of Structural Ceramics.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

LEONIDOV, V.Ya.; BARSKIY, Yu.P.; KHITAROV, N.I.

Determination of the heat capacity of kyanite and quartz by the method of thermal analysis. Geokhimiia no.5:414-419 My '64. (MIRA 18:7)

1. Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R. and Scientific Research Institute of Building Ceramics, Moscow.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

GODOVSKIY, Yu.K.; BARSKIY, Yu.P.

Using the thermal analysis method for measuring the specific heat and thermal effects of polymers. Plast. massy no.7:57-59 '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

ASR[illegible], [illegible]; BAR[illegible], Yu.[illegible], [illegible];
[illegible], Ye.I., inzh.; KA[illegible], T.I., [illegible]

Measurement of the heat expenditure [illegible] to temperatures up to 1000°C. Izv.vys.ucheb.zav.; [illegible] 8 no.11:[illegible]-57 D '65. ([illegible])

1. [illegible] institut [illegible]; Institut [illegible], [illegible], i [illegible] institut [illegible]. Submitted [illegible].

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[illegible]

[illegible] (MIRA 18:8)

[illegible] mikrobiologii [illegible] Kh.Ph.-bouillon) [illegible] vet-[illegible] [illegible]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6

BARSKOV, A.K., inzhener.

Selecting efficient single-bucket excavators. Mekh.stroi. 13 no.1: 11-15 Ja '56. (MLRA 9:3)
(Excavating machinery)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203710020-6"