ICC NR: AT6028378

(N)

SOURCE CODE: UR/0000/65/000/000/0124/0141

AUTHOR: Vartanov, S. P.; <u>Gagel'gants, A. A.</u>; Krolenko, I. I.; Levchenko, V. A. Malovitskiy, Ya. P.; Milashin, A. P.; Rapoport, S. Ya.; Fedynskiy, V. V.; Shapirovskiy, N. I.; Shekinskiy, E. M.

ORG: none

TITLE: Geological results of marine geophysical exploration in the USSR

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 124-141

TOPIC TAGS: geophysic expedition, earth structure, seismic prospecting, ocean floor topography, tectonics

ABSTRACT: Marine geophysical exploration have been conducted in the Soviet Union for the purpose of investigating the crustal structure, and regional geological investigations have been made in offshore areas which are potential oil—and gas—bearing structures. The seismic method is the most effective and most often used for offshore investigations. Also successful are gravimetric, magnetic, and electric prospecting methods. The technique of offshore seismic shooting has been greatly improved, making it possible to operate from a moving ship. The geophysical investigations conducted on the Caspian Sea made it possible to distinguish the areas of

Card 1/3

ACC NR: AT6028378

the Pre-Cambrian Epihercynian platform and the Alpine geosyncline. Investigations have been made of the regional structure of the south Caspian depression, oil-bearing regions of its folded margins, and gentle structures of the internal depression. The area of the Epihercynian platform has been found to contain Kara-Bugaz and middle Caspian arches and offshore continuation of the South Mangishlack depression as well as folded zones. The continuations of the South Mangishlack and Karpinsky ridge, the north Caspian zone of marginal uplifts of the Pre-Cambrian platform and the offshore continuation of the Pre-Caspian depression have been thoroughly investigated. A number of structures in the southern part of the Caspian Sea have been prepared for deep drilling. At the Sea of Azov a step-like submergence of the southern slope of the Pre-Cambrian platform has been established, and the Azov rampart, which connects the Epihercynian folded structures of the Northern Caucasus and Crimean steppe has been located. Offshore continuations of the Kerch-Taman dislocations have been studied. At the Black Sea geophysicists have studied the hidden Cretaceous folding and deep-seated faults at the offshore continuation of the Kolkhida depression, submergence of the northwestern Caucasus, buried highs south of the Crimea and the jointing between the Crimean and Dobrudga dislocations. Also the structure of the crust and the structure of the sedimentary strata in the deepsea areas have been studied. Seismic surveys have been conducted to study the geology of the Paleozoic deposits and the surface of the basement in the eastern Baltic Sea. It has been established that the thickness of the sediments within the offshore continuation of the Polish-Lithuanian syneclise does not exceed 3 km. Interesting results have been obtained from geophysical investigations conducted at

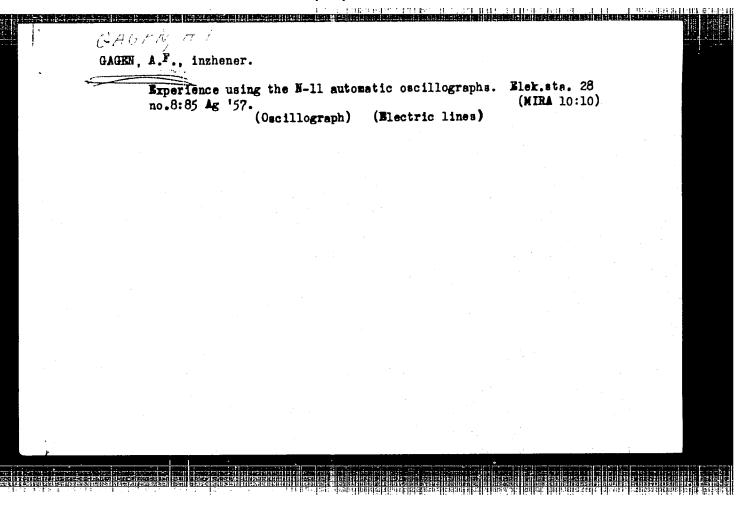
Card 2/3

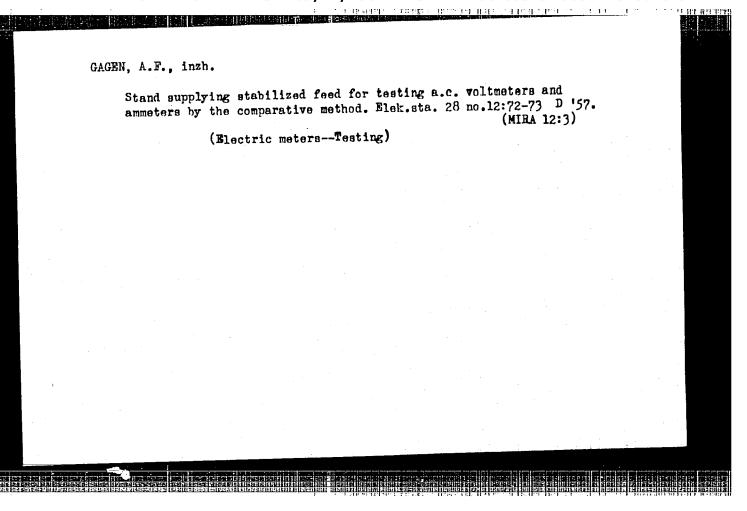
ACC NR: AT6028378

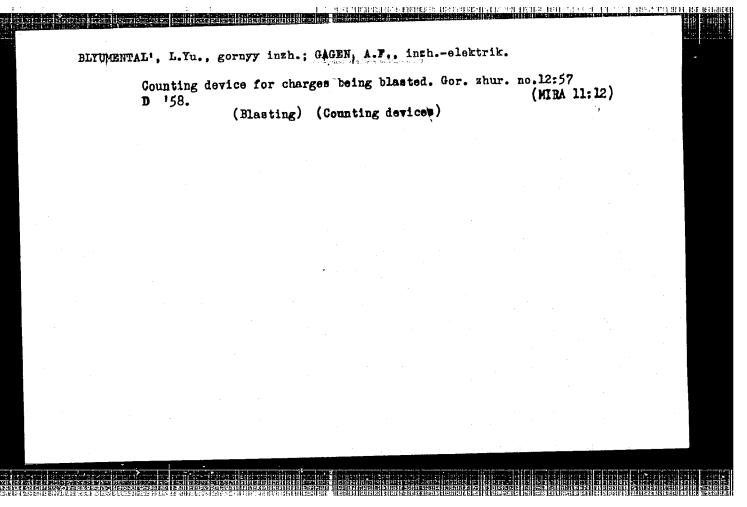
the Kara Sea near the mouths of the Ob and Yenisey Rivers. The regional structure of the Jamal-Nazim depression and the Taimir foredeep has been defined, major platform structures have been located in the Mesozic strata, and the Taimir has been followed further out into the sea. Deep-seated structure of the Earth's crust has been investigated in the transitional zone between the Asian continent and the Pacific Ocean, and also at the Okhotsk Sea and in the area of the Kamchatka-Kurile ridge. It has been found that the Sakhalin Tertiary folding area extends under the waters of the Okhotsk Sea. Marine geophysical exploration in the USSR will be expanded. Orig. art. has: 7 figures.

SUB CODE: 08/ SUBM DATE: 06Jan65/ ORIG REF: 048

Card 3/3







307/127-58-12-16/26

AUTHORS:

Blyumental', L.Yu., Mining Engineer and Gagen, A.F., Electri-

cal Engineer

TITLE:

A Recorder of Exploding Charges (Schetchik vzryvayemykh

zaryadov)

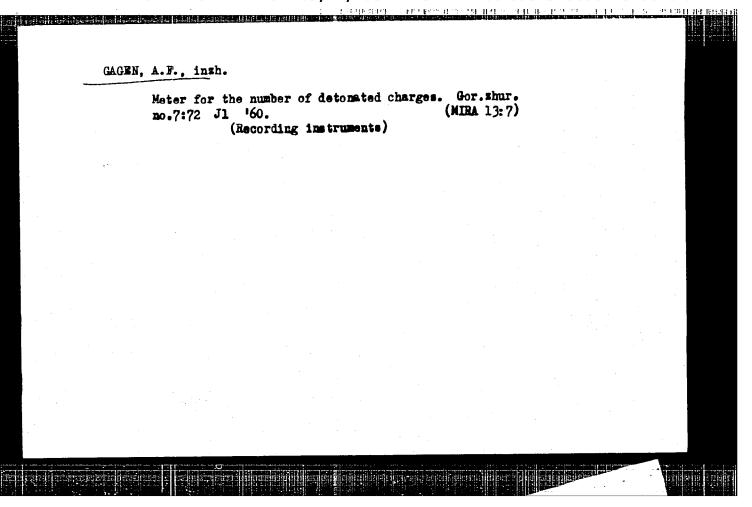
PERIODICAL:

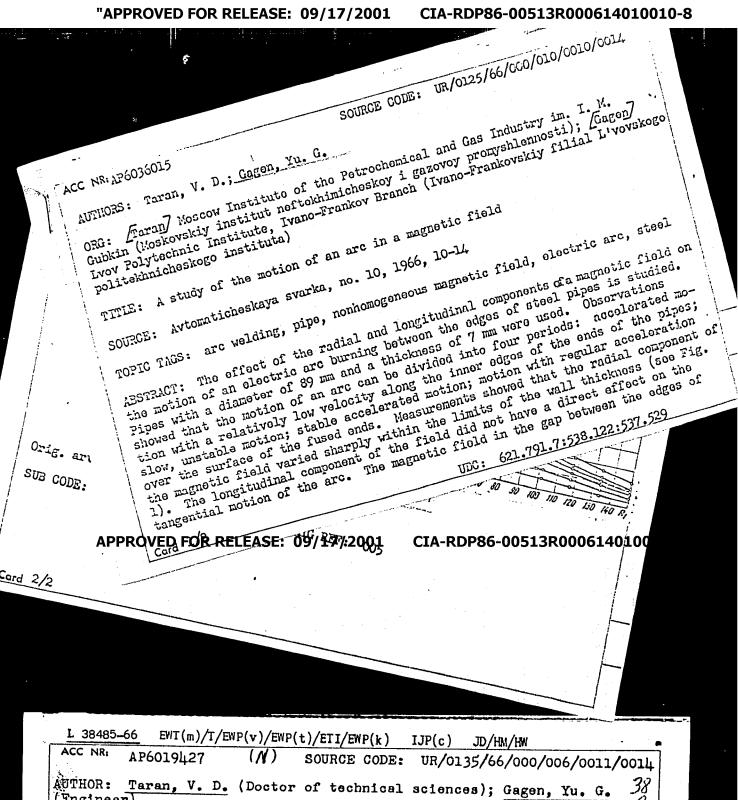
Gornyy zhurnal, 1958, Nr 12, p 57 (USSR)

ABSTRACT:

The authors constructed a recorder which automatically registers number of explosions occurring during the blasting operations. The principle of this recorder is based on the perception of the sound wave by a microphone, which through an electronic amplifier, transmits the impulses of this wave to an electronic counting grid connected to a counter. A detailed description, and the diagram of the recorder, is given. There is 1 schematic diagram.

Card 1/1





(Engineer) ORG: Taran ORG: Moscow Institute for the Petrochemical and Gas Industry im. I. M. Gubkin (Moskovskiy institut neftekhimicheskoy i gezovoy promyshlennosti); Iveno-Frankovsk Branch of the Lvov Polytechnic Institute (Ivano-Frankovskiy filial L'vovskogo politekhnicheskogo instituta) Gagen TITLE: Arc heating of the edges of steel tubes SOURCE: Svarochnoye proizvodstvo, no. 6, 1966, 11-14 TOPIC TAGS: are welding, temperature distribution, metal Tobe

SERGE SERVICE OF CONTROL OF SERVICE OF SERVI

L 38485-66

ACC NR: AP6019427

The instantaneous position of a given source at a moment of time, in this system, is expressed: $X_n=2k\pi R+\nu \epsilon$; $Y_n=0$. The process of propagation of an element of heat qdT/S, related to a given linear source at the moment of time T, referred to a fixed system of coordinates, without heat transfer, is expressed by the formula

$$dT(X_0, Y_0, t-\tau) = \frac{qd\tau}{8c\gamma 4\pi a(t-\tau)} \exp\left[-\frac{r_a^2}{4a(t-\tau)}\right].$$

where $r_x^2 = (X_x - X_0)^2 + Y_0^2$ is the square of the instantaneous radius vector. The article continues with a mathematical development of the problem on this basis. Results of the calculations are developed in a series of nomographs. Orig. art. has: 16 formulas and 6 figures.

SUB CODE:/3,20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002

Card 2/2 pb

TARAN, V.D., doktor tekhn.nauk; GAGEN, Yu.G., inzh.

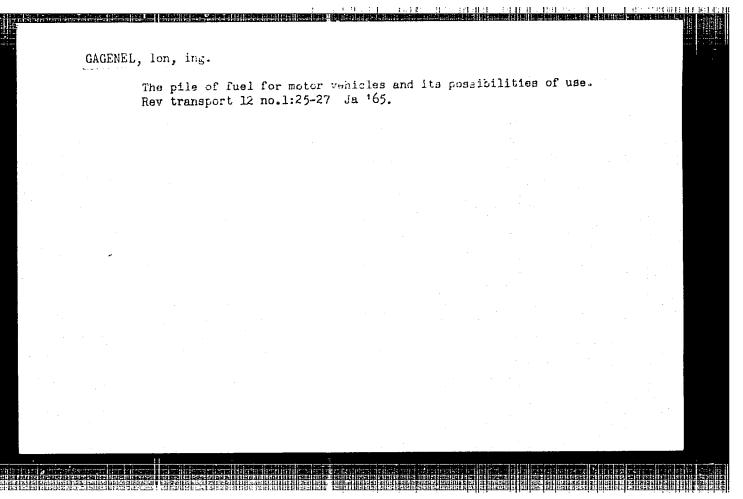
Forces affecting the arc in a megnetic field. Sver.proizv. no.553-4
My '65. (MIRA 18:6)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshiennosti.
im. I.M.Gubkina.

TARAH, V.D.; GAGEN, Yu.G.

Heating petroleum-pipe ends with a shifting arc for pressure welding. Mash. i neft. obor. no.5:36-38 '65.

1. Moslovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M.Gubkina.



SOV/124-58-8-9214

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 126 (USSR)

AUTHOR: Gagen-Torn, A.V.

Graphing the Stress Distribution in Beams Subjected to Force-couple (Moment) Loads [Graficheskoye postroyeniye epyur dlya TITLE:

balak, zagruzhennykh parami sil (momentami)]

PERIODICAL: Sb. nauchn. tr. Magnitogorskiy gornometallurg. in-t, 1957,

Nr 13, pp 65-80

ABSTRACT: Bibliographic entry

Card 1/1

SKOROKHODOV, N.Ye., prof. otv. red.; AGAPOV, V.F., prof. po nauchnov rabote, dots., red.; BOYARSHINOV, M.I., prof., red.; VESELOVSKAYA, Ye.S., red.; GAGEN-TORN, A.V., red.; GOL'DSHTEYN, N.A., red.; IVANOV, N.I., kand. tekim. nauk, dots., red.; KORZH, P.D., prof., red.; PETROV, V.M., dots. kand. tekhm. nauk, red.

[30 years of the Magnitogorsk Mining and Metallurgical Institute] XXX let MGMI. Magnitogorsk, 1962. 170 p. (MIRA 17:3)

1. Magnitogorsk. Gorno-metallurgicheskiy institut.
2. Sekretar' partiynogo byuro Magnitogorskogo gornometallurgicheskogo instituta (for Petrov). 3. Dekan metallurgicheskogo fakul'teta Magnitogorskogo gorno-metallurgicheskogo instituta (for Ivanov). 4. Zaveduyushchiy
kafedroy fiziki Magnitogorskogo gorno-metallurgicheskogo
instituta (for Korzh). 5. Zaveduyushchiy kafedroy obrabotki
metallov davleniye. Magnitogorskogo gorno-metallurgicheskogo
instituta (for Boyarshinov).

AKIMOVA, K.I.; BAZHENOV, M.F.; BAKHVALOV, G.T.; BEZKLUBENKO, N.P.; BERMAN, S.I.;
BOGDANOV, Ye.S.; BODYAKO, M.N.; BOYKO, B.B.; VINOGRADOV, S.V.;
GAGEN-TORN, K.V.; GLEK, T.P.; GOREV, K.V.; GRADUSOV, P.I.; GUSHCHINA, T.N.;

TEMELYANOV, A.K.; YESIKOV, M.P.; ZDZYARSKIY, A.V.; ZAKHAROV, M.V.;
ZAKHAROVA, M.I.; KARCHEVSKIY, V.A.; KOMAROV, A.M.; KORZHENKO, O.T.;
LAYNER, V.I.; MAL'TSEV, M.V.; MILLER, L.Ye.; MILOVANOV, A.I.;
MIRONOV, S.S.; NIKONOROVA, N.A.; OL'KHOV, N.P.: OSIPOVA, T.V.;
OSOKIN, N.Ye.; PERLIN, I.L.; PLAKSIN, I.N.: PROKOF'YEV, A.D.;
RUMYANTSEV, M.V.; SEVERIENKO, V.P.; SEREDIN, P.I.; SMIRYAGIN, A.P.;
SPASSKIY, A.G.; TITOV, P.S.; TURKOVSKAYA, A.V.; SHAKHNAZAROV, A.K.;
SHPICHINETSKIY, Ye.S.; YURKSHTOVICH, N.A.; YUSHKOV, A.V.;
YANUSHEVICH, L.V.

Sergei Ivanovich Gubkin. TSvet.met. 28 no.6:60-61 N-D '55. (MIRA 10:11)
(Gubkin, Sergei Ivanovich, 1898-1955)

to the set of the boundaries of the set of t TURN K.L. GAGER

Gagen-Torn, K.V. AUTHOR:

136-2-11/22

TITLE:

Speed Characteristics of Presses for Non-ferrous Metals.

(Skorostnaya kharakteristika pressov dlya tsvetnykh

metallov).

Tsvetnye Metally, 1957, No.2, pp. 61 - 67 (USSR) PERIODICAL:

The characteristics of extrusion presses being used for heavy non-ferrous metals are shown as curves of speed of ABSTRACT: extrusion against rod diameter, and against pressure, of pressure against plunger movement and of power against speed These are discussed and it is shown that the pressure in the hydraulic accumulator is the sum of the indicator extrusion pressure and the product of the coefficient of resistance and the square of the extrusion velocity. The fundamentals of the methods of establishing speed characteristics for industrial hydraulic extrusion installations are set out. The broad view taken of the relation between pressures and speeds of extrusion enables the process peculiarities associated with freely established extrusion speeds to be explained. The speed characteristic of a press enables some of its main technological parameters to be found by calculation: the value of the self-determined speed of extrusion, the pressure reserve required for working the press at maximal productivity; 1/2

CIA-RDP86-00513R000614010010-8" APPROVED FOR RELEASE: 09/17/2001

- Control to the Control to Control of Should and Control of the Control of Control of Short sh

136-2-11/22 Speed Characteristics of Presses for Non-ferrous Metals.

and also the power developed by the press at various extrusion pressures - which is one of the efficiency indices of the process. There are 4 figures and 3 references, 2 of which are Slavic.

ASSOCIATION: Giprotsvetmetobrabotka.

AVAILABLE: Library of Congress

AUTHOR: Gagen-Torn, K. V.

136-9-13/14

TITLE:

Experimental verification with copper tubes of the calculation of extrusion pressures according to the method

based on constant friction stress (I. I. Perlin's formula). (Eksperimental'naya proverka na mednykh trubakh rascheta

davleniy pressovaniya po metodu, osnovannomu na

postoyannom napryazhenii treniya).

PERIODICAL: Tsvetnyye Metally, 1957, No.9, pp. 82-84 (USSR).

ABSTRACT: The author compares extrusion pressures calculated by

I. L. Perlin's formula with experimental values obtained on industrial installations. He used copper-tube extrusion to give data covering the widest range of conditions. Pressures were measured with an autographic manometer and temperatures before extrusion with an optical pyrometer. The results confirmed the ability of Perlin's formula to furnish, with the use of an appropriate empirical

coefficient, values sufficiently accurate for practical

purposes.

There are 4 references - 2 Russian, 1 English, 1 French.

ASSOCIATION: Giprotsvetmetobrabotka.

AVAILABLE: Library of Congress.

Card 1/1 1. Copper tubes-Extrusion 2. Mathematical analysis

137-58-4-7112

| 1855 | 1844 | 1878 | 4 | 1846 | 1874 | 1875 | 1846 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 1847 | 18

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 115 (USSR)

AUTHOR: Gagen-Torn, K. V.

TITLE: Experiments in Preheating Copper Bars Before Extrusion, in a

Producer-gas Atmosphere (Opyty nagreva pered pressovaniyem

mednykh slitkov v atmosfere generatornogo gaza)

PERIODICAL: Tr. Gos. n.-i. i proyektn. in-ta po obrabotke tsvetn. met.,

1957, Nr 17, pp 90-95

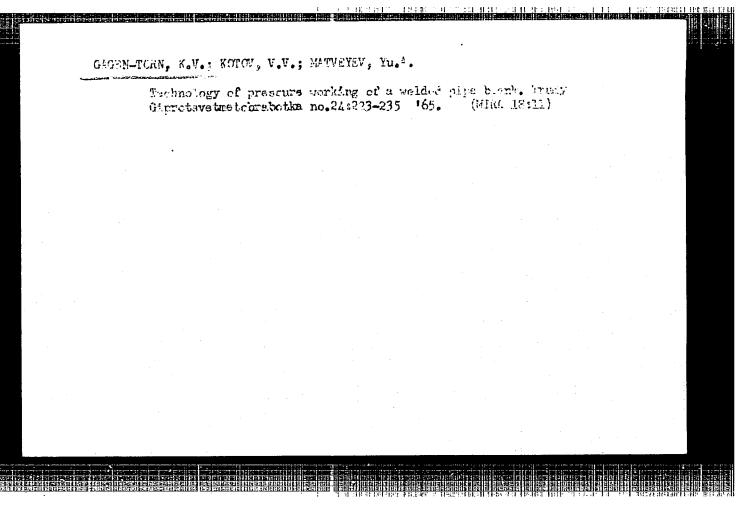
ABSTRACT:

To avoid scrap in extrusion of Cu tubes resulting from the pressing in of scale, it is proposed to pre-heat in an atmosphere of producer gas. Experiments conducted under laboratory and factory conditions show that this almost completely eliminates the formation of scale even when the H₂ concentration is low (not over 1 percent), but that elevated unit pressures are required, as scale behaves as a lubricant during extrusion. Development of hydrogen embritlement in Cu containing O₂ is insignificant and will, under unfavorable conditions, occur in the surface layer to a depth of

1 mm.

Card 1/1

1 Copper--Heat treatment 2. Copper--Extrusion--Processes M. Ts.



GAGEN-TORN, K.V.; KOTOV, V.V.; Prinimali uchastiye: LEVIP, E.G.:
TSVAYGEL', L.D.

Requirements of industrial emulsions for brass pipe and rod
drawing. Trudy Giprotsvetmetobrabotka no.24,1264-268 '65.

(MIRA 18:11)

DOMBROVSKTY, V.A.; GAGEN-TORN, V.A.; GUTKEVICH, S.M.; POLYAKOVA, T.A.; SVECHNIKOV, M.A.; SHULOV, O.S.

The 20° reflecting telescope with an astrophotometer for photometric, colorimetric and polarimetric studies. Uch.zap.LGU no.328:83-94 165. (MIRA 18:10)

MIRE PARTE CONTROL OF THE PROPERTY OF THE PROP

s/020/61/138/002/002/024 C111/C222

16.4600 16,6500 16.4100

Gagen - Torn, L.W., and Mikhlin, S.G.

AUTHORS & TITLES

On the solvability of nonlinear Rits systems

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 2,1961 258-260

TEXT: The authors give sufficient conditions for the solvability of the Cauchy problem to which the application of the Ritz method is leading for nonlinear problems.

On a linear set dense in the Hilbert space H let be given the functional f(x); let f(x) be the potential of a nonlinear operator F(x). Let the Gateaux differential DF(x,h) of F(x) be an operator uniformly positively bounded from below. The minimum of f(x) is sought. The approximate arrangement of Ritz

 $x \approx \sum_{i=1}^{n} a_i x_i$, $a_i = const$, for a_i leads to

the system

(Df $(\sum_{i=1}^{n} a_i x_i), x_j = 0$

Card 1/5

On the solvability of ...

S/020/61/138/002/002/024 C111/C222

or

$$(F(\sum_{i=1}^{n} a_i x_i), x_j) = 0, j = 1, 2, ..., n$$
 (1)

According to D.F. Davidenko (Ref. 1, DAN 88, no. 4, 1953) the authors consider the auxiliary system

$$a_j + \lambda \left[\left(F \left(\sum_{i=1}^n a_i x_i \right), x_j \right) - a_j \right] = 0, \quad j = 1, 2, ..., n$$
 (2)

The differentiation with respect to λ yields

$$\frac{da_{j}}{d\lambda} + (F(\sum_{i=1}^{n} a_{i}x_{i}), x_{j}) - a_{j} +$$

+
$$\lambda \left\{ \sum_{k=1}^{n} \left[\left(DF \left(\sum_{i=1}^{n} a_{i}x_{i}, x_{k} \right), x_{j} \right) - S_{jk} \right] \frac{da_{k}}{d\lambda} \right\} = 0$$
, j=1,2,..,n (3)

where the coefficient matrix for the da $_{\bf k}/{\rm d}\,\lambda$ with the notation Card 2/5

On the solvability of ...

S/020/61/138/002/002/024 C111/C222

(DF
$$(\sum_{i=1}^{n} a_i x_i, x_k), x_j) = [x_k, x_j]$$

can be written in the form

$$\begin{vmatrix}
 \begin{bmatrix} x_1, x_1 \end{bmatrix} & \begin{bmatrix} x_2, x_1 \end{bmatrix} & \cdots & \begin{bmatrix} x_n, x_1 \end{bmatrix} \\
 \begin{bmatrix} x_1, x_2 \end{bmatrix} & \begin{bmatrix} x_2, x_2 \end{bmatrix} & \cdots & \begin{bmatrix} x_n, x_2 \end{bmatrix} \\
 & \cdots & \cdots & \cdots & \vdots \\
 & \begin{bmatrix} x_1, x_n \end{bmatrix} & \begin{bmatrix} x_2, x_n & \cdots & x_n, x_n \end{bmatrix}
\end{vmatrix}$$
(4)

The determinant Δ_n of (4) for $\lambda \in [0,1]$ is different from zero so that from (3) by solution (rule of Cramer) it follows

$$\frac{da_{j}}{d\lambda} = \frac{\Delta_{n}^{J}}{\Delta_{n}} = g_{j}(\lambda, a_{1}, a_{2}, ..., a_{n}), \quad j = 1, 2, ..., n$$
 (5)

Card 3/5

S/020/61/138/002/002/024 C111/C222

On the solvability of ...

Let the following conditions be satisfied a

1) (F
$$(\sum_{i=1}^{n} a_i x_i)$$
, x_j) and (DF $(\sum_{i=1}^{n} a_i x_i, x_k)$, x_j) are continuous in

in a_1, a_2, \ldots, a_n and it holds

$$(F(\sum_{i=1}^{n} a_{i}x_{i}), x_{j}) \leq p_{m}(a_{1}, a_{2}, ..., a_{n})$$
 (6)

$$(DF (\sum_{i=1}^{n} a_i x_i, x_k), x_j) \leq p_{m-1}(a_1, a_2, ..., a_n)$$
, (7)

where p and p are polynomials of m-th and (m-1)-st degree, respective-

ly.
2) It holds

$$(DF(\sum_{i=1}^{n} a_i x_i, h), h) \ge N(\sum_{i=1}^{n} a_i^2)^{(m-1)/2} \|h\|^2, N = const.$$
 (8)

Card 4/5

S/020/61/138/002/002/024 C111/C222

On the solvability of ...

Therefrom it follows

$$\mathbb{I}(\underbrace{\sum_{i=1}^{n} a_{i}^{2}})^{n(m-1)/2} \le \Delta_{n} \le p_{n(m-1)}(a_{1}, a_{2}, \dots, a_{n}) \qquad (9)$$

It is proved that (5) is solvable for $\lambda \in [0,1]$, wherefrom because of (3) the solvability of the Ritz system (1) can be concluded.

There are 3 Soviet-bloc and 1 non-Soviet-bloc references.

ASSOCIATION: Leningradskoye otdeleniye Matematicheskogo institute

imeni V.A. Steklova Akademii nauk SSSR (Leningrad Branch of the Mathematical Institute imeni V.A. Steklov of the

Academy of Sciences USSR)

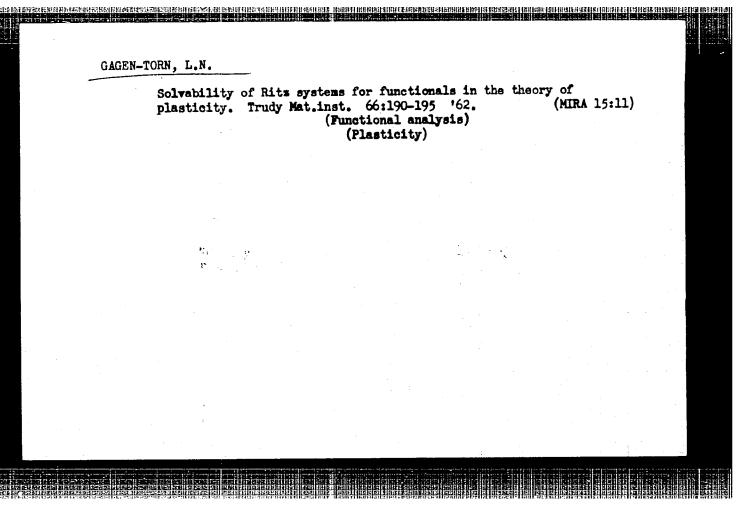
PRESENTED: Decembe

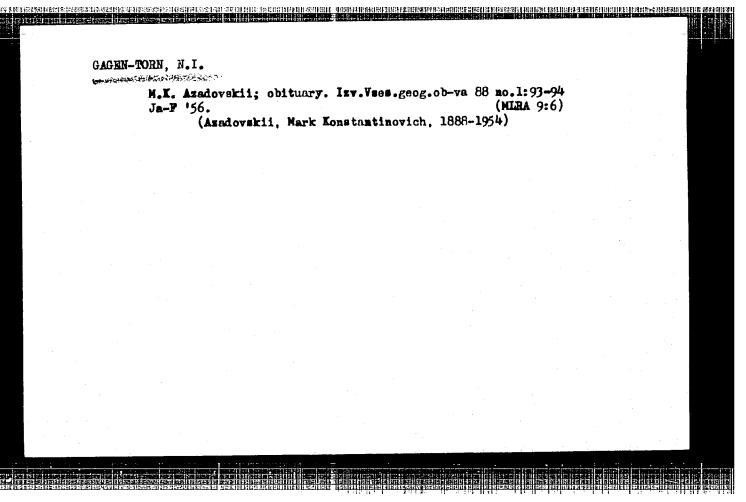
December 24, 1960, by V.I. Smirnov, Academician

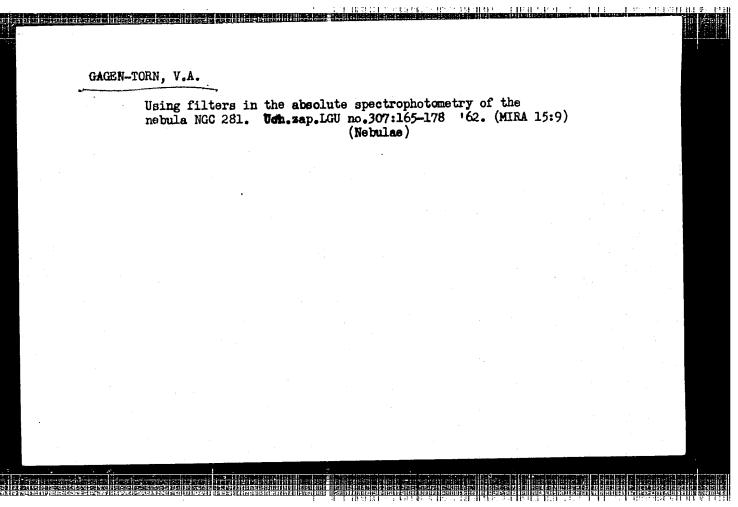
SUBMITTED:

December 20, 1960

Card 5/5



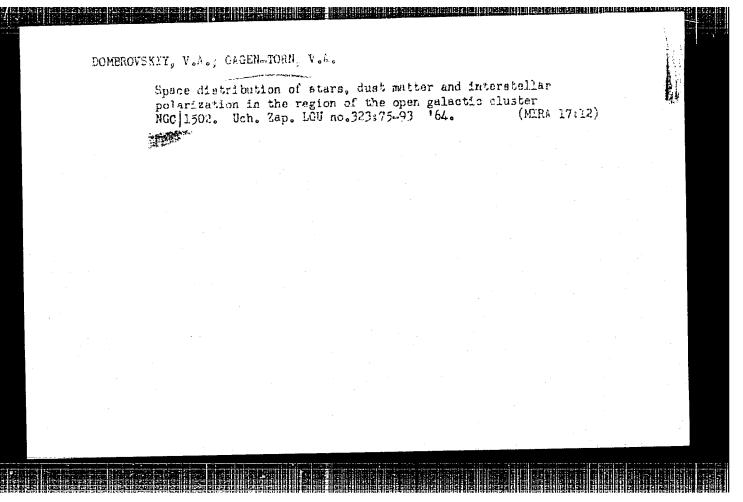


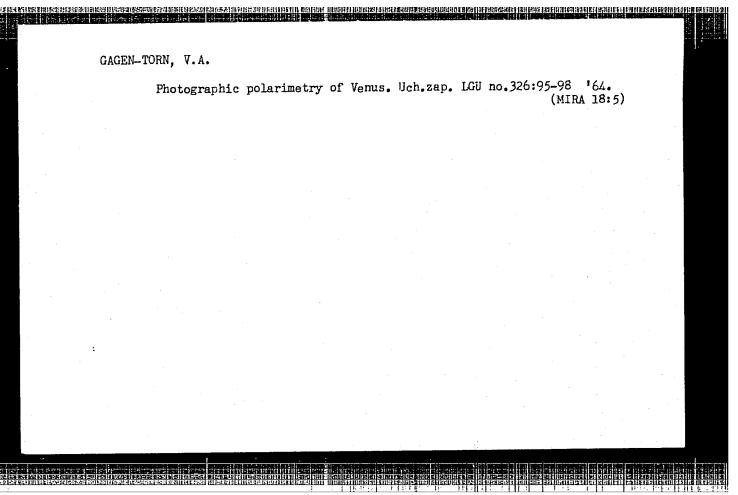


MODIL-TOTEL, V. A.: POURENSKIY, V. A.

Study of Open Galactic Cluster NGC 1502

ignation (some of provided out on light Photographs taken using the 16" astrograph of the Crimean Observatory with an objective prism (dispersion 250 A/mm at $H \sigma$) have been used in making a two-dimensional spectral classification of stars up to ~ 12m pg in a sky area of 100 X 70° with a center in NGC 1502. There is a brief discussion of the criteria used in classification by luminosity classes. The magnitudes of these same stars were obtained in two types of light, reduced to the B, V system (the plates were obtained using the 10" astrograph of the Astronomical Observatory Leningrad State University). For 32 stars measurements were made of the polarization parameters by electrophotometric and photographic methods. The totality of data obtained, taking into account the known proper motions, made it possible to study the spatial distribution of stars and dust in the neighborhood of NGC 1502. The distance to the cluster is 950 parsecs. Bibliography of 15 items. (Abstract: "Spatial Distribution of Stars, Dust Matter and Interstellar Polarization in the Neighborhood of the Open Galactic Cluster NGC 1502", by V. A. Dombrovskiy and V. A. Gagen-Torn; Leningrad, Uchenyye Zapiski Leningradskogo Gosudarstvennogo Universiteta, 1964, No. 323, pp. 75-93) From: Moscow, Referativnyy Zhurnal, Astronomiya, 51, Otdel'nyy Vypusk, No. 3, 1965, p. 22, 3.51.180

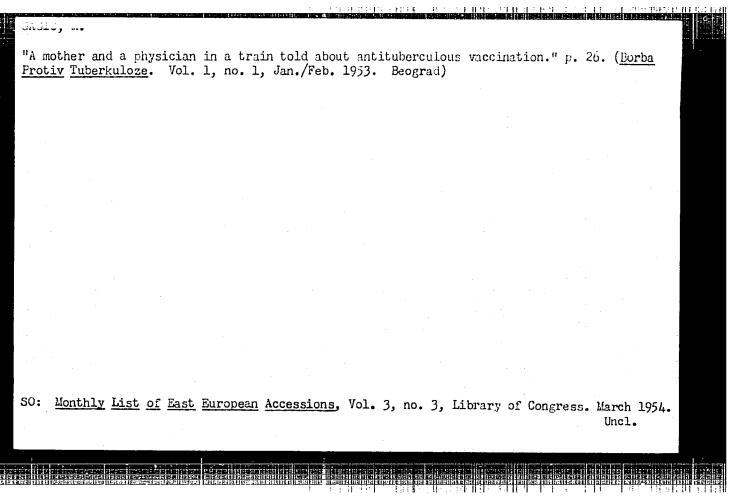




GAGEROV, I.P., TURKINA, M. YA.

"Utershungen uber die Beteiligung von Phenylradikalen an Losungsreaktionrm mit Hilfe von Deuterium."

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



GORYANINOV, Mikhail Abramovich. Prinimal mehantiya ORHADKO, B.I., inzh.; GAGIN, B.S., nauchn. red.; BONDAROVSKAYA, G?V., red.; TOKER, A.M., tekhn. red.

[Industrial training of lathe operators] Proizvodstvennoe obuchenie tokarei. Izd.3., perer. i dop. Moskva, Proftekhizdat, 1963. 299 p. (MIRA 17:1)

CCUNTRY : RUMANIA H

CATEGORY: Chemical Technolgy. Chemical Products and Their Application. Pharmaceuticals. Vitamins. Antibio-*

ABS. JOUR. : RZhKhim., No 17, 1959, No. 61802

AUTHOR : Ciocanelea, V.; Berger, T.; Gagin, F.

INSTITUTE : -

TIME : New Therapeutically Active Derivative of Thiol,

of the Ichthyol type.

ORIG. PUB. : Farmacia (Romin.), 1958, 6, No 4, 317-320

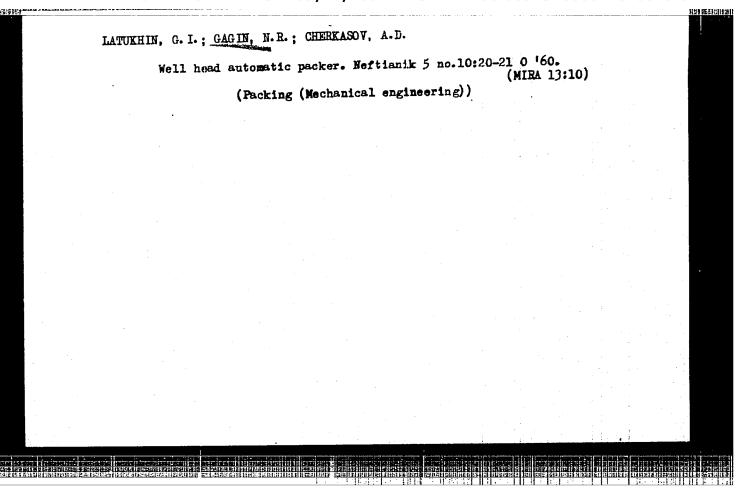
ABSTRACT : A new thiol derivative, close in the composition

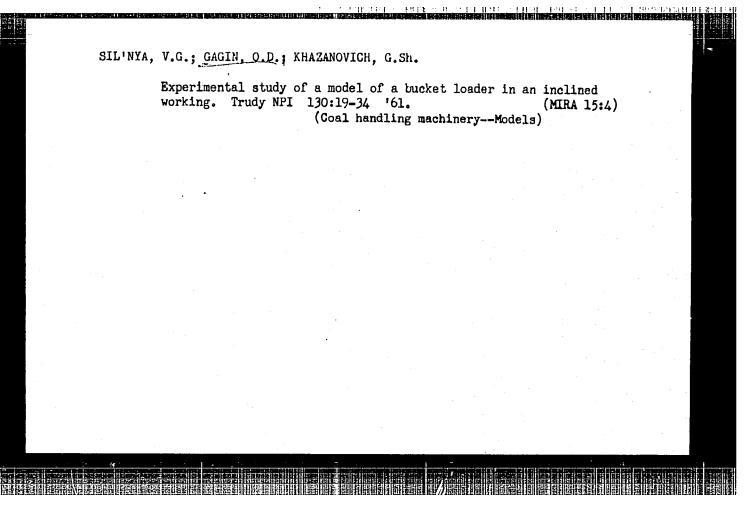
to ichthyol, was derived from linseed oil. Linseed oil was subjected to chemical treatment: sulfidation, sulfonation, neutralization and ourification. A dark brown product resulted having the consistency of honey and a weak specific odor. Described are the method of preparation, physico-chemical properties and results of the taxicity and pharmacodynamic action determinations in the va-

riety of pharmaceutical forms.

*tics.

Card: 1/1





SIL'NYA, V.G.; GAGIN, O.D.; IVANOV, O.P.; KHAZANOVICH, G.Sh.

Methods of determining bucket-loading machine parameters.

Trudy NPI 158:69-78 *64.

Geometry of the operating part of bucket-loading machines.

Ibid.:79-89 (MIRA 18:11)

CIA-RDP86-00513R000614010010-8 "APPROVED FOR RELEASE: 09/17/2001

GAGIN, S.D

AUTHOR:

Gagin, S.D., Engineer

67-6-1/23

TITLE:

On the Advantages of Electric Steel Smelting in the Duplex-Process-Oxygen Converter-Electric-Furnace (Ob effektivnosti vyplavki

elektrostali dupleks-protsessom-kislorodnyy konverter-elektropech')

PERIODICAL:

Kislorod, 1957: , ... Nr 6, pp. 1-11 (USSR)

Received: April 7, 1958

ABSTRACT:

In the introduction the advantages offered by steel smelting in the duplex process with the employment of electric furnaces are discussed, and it is said that, compared with the usual process, production can be increased by double its amount while the costs of electric energy and electrodes can be reduced by three times their amount. For the reduction of the costs of steel smelting products it is further recommended, when producing half-finished products of cast iron, to blow the latter in the main converter during founding with technically pure oxygen, which ensures a more rapid dephosphorization of founding and makes it possible to reduce the process of founding to a minimum of time. On the basis of the examples of the foundry work carried out in the steel plants of "Dneprostal'", "Zaporozhstal'", and others it is said that the prime costs of steel production in the USSR depend mainly on the

Card 1/3

On the Advantages of Electric Steel Smelting in the Duplex-Process-Oxygen Converter-Electric Furnace

67-6-1/23

costs of the oxygen used, and because the latter is produced by the steel works concerned themselves in various quantities, also the prime-cost rates of the production of oxygen differ between 20 and 5 kopecks per m³. In the chapter: Prime-Costs of Half-Finished Products coming from the Main Converter, conditions prevailing in the "Zaporozhstal'" steel works are used as an example: The prime-costs of cast iron from open-hearth furnaces amount to 325 rubles/t; the final prime-costs of the half-finished products produced amount to from 391.4 to 398.9 rubles/t; for 1 t of half-finished products about 50 m3 of oxygen are necessary, which at present costs 12-14 kopecks per m³ at the aforementioned "Zaporozhatal'" works. After the intended increase of oxygen production in this plant, this price is to be reduced to 10 kopecks. In the chapter: Technical-economic indices of the work performed by arc furnaces in the duplex process it is said that the annual steel production of one electric furnace amounted to 50 100 t in 1955, and to 56 400 t in 1956. The introduction of the duplex process made it possible to increase production by 223.2% at the cost of the reduction of the time needed for founding by 55.2% (3 h). In the chapter:

Card 2/3

On the Advantages of Electric Steel Smelting in the Duplex-Process-Oxygen-Converter-Electric Furnace

67-6-1/23

Comparison of the prime-cost prices for steel of the type WX15 this price is said to amount to 590-637 rubles/t (according to the prime-costs of oxygen production and the costs of reconstruction). In conclusion it is said that changing over to the duplex process of founding was carried out mainly in the steel plants in the South of the USSR and in the Ural district; in this way the prime-cost price of steel was reduced by 3-7%, and it was possible to reduce current investments by 12.2-15.8%. There are 5 figures, 10 tables, and 8 Slavic references.

AVAILABLE:

Library of Congress

Card 3/3

GAGIN, S.D., Gand Tech Sci--(dice) "Smilting of electro-steel by the duplex-process --oxygen convertor-electro-flurence and its technico-economic effectiveness." Mos,195". 12 pp ,incl cover. (Vin of higher Education USSR.) Mos trder of Labor Red Bennur inst in I.V.Stalin), 120 co ies (KL,48-58, 104)

SOV/137-59-1-361

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 45 (USSR)

AUTHOR: Gagin, S. D.

TITLE: On the Effectiveness of a Method of Electromagnetic Mixing of

Metal in Electric Arc Furnaces (Ob effektivnosti primeneniya elektromagnitnogo peremeshivaniya metalla v elektropechakh)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy, Chern. metallurgiya, 1958,

Nr 4, pp 181-189

ABSTRACT: The author evaluates the economical effectiveness of employing in-

duction mixing (IM) of metal in electric arc furnaces (EAF) with capacities of 20, 40, and 80 tons employing liquid and solid charge in different economic regions of the USSR. It was computed that the employment of the IM is profitable only if the reduction period of smelting is decreased by at least 30% and if the cost of erecting installations for EAF's with capacities of 20, 40, and 80 tons is not greater than 1.15, 1.25, and 1.36 million rubles, respectively. The author concludes that IM may be expediently employed in EAF's

operating on the Duplex process, but questions the need for the em-

Card 1/2 ployment of this process in EAF's operating on a solid charge, as

On the Effectiveness of a Method of Electromagnetic Mixing of Metal (cont.) well as in instances when the cost of these installations exceeds certain optimal values.

A. Sh.

Card 2/2

18(5)

SOV/148-59-2-23/24

AUTHOR:

Gagin, S.D., Candidate of Technical Sciences

TITLE:

Problems of Organizing the Feed and Teeming of Semi-Product in Duplex-Processes With Electric Furnaces (Voprosy organizateli podachi i zalivki poluprodukta v elektropech' pri dupleks-protses-se) Oxygen Electric Furnace Converter (Kislorodnyy konverter-elektropech)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, 1959, Nr 2, pp 171-175 (USSR)

ABSTRACT:

Conversion from solid to liquid charges of electric furnaces calls for the development of systems for the feed, teeming and transportation of semi-products. Satisfactory results can only be obtained by a quick run of operations in the basic stage of the process and by observing strictly regulated production in the duplex shops. The author investigates different variants of semi-product teeming from the side of the pouring span and from the side of the furnace span, taking into account various feed methods. The information includes recommendations on the proper feed method illustrated by schematic drawing (Figure 2-d).

Card 1/2

There are 2 sets of schematic drawings.

SOV/148-59-2-23/24

Problems of Organizing the Feed and Teeming of Semi-Product in Duplex-Processes

ASSOCIATION:

55 进 1 担

Moskovskiy institut stali (Moscow Steel Institute) . Kafedra

ekonomiki i organizatsii proizvodstva (Chair of Production

Economics and Organization)

SUMMITTED:

February 5, 1959

Card 2/2

23626

。 第一章 1957年,1958年,1958年,1958年1958年1958年,1958年1958年,1958年的1958年,1958年,1958年,1958年,1958年,1958年,1958年,1958年,1958年,1

18.3200

\$/148/60/000/012/020/020 A161/A133

AUTHOR:

Gagin, S. D.

TITLE:

The slag regime for converter steel selting with oxygen blowing from the top

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 12, 1960, 173 - 182

TEXT: The oxygen process developed by the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy) enables open-hearth iron with up to 0.3% P and 0.07% S to be obtained in basic converters. The possibilities of a more complete dephosphorization, economy of slag-forming materials and reduction in metal losses with slag have been investigated by the Moscow Steel Institute in tests with reduced lime addition and full exclusion of bauxite. Regular shop conditions were imitated. The iron contained 0.6 - 0.9% Si; 1.4 - 1.7% Mn, up to 0.1% P and 0.05 - 0.07% S; the charge consisted of up to 100% of liquid iron. Three variations were tried, with 40 kg/t lime in I, 33.2 kg/t in II, and 21.5 kg/t in III. The first blowing period lasted

Card 1/7

23626

The slag regime for converter steel melting...

5/148/60/000/012/020/020 A161/A133

5 min, then 50 - 70% of the slag was skimmed; the second period began with an addition of lime and iron ore. The ore was used as coolant. Oxygen was blown at 10 - 12 atm pressure, at a rate of $75 - 80 \text{ m}^3/\text{min}$ in both periods, through one water-cooled tuyere with 42 mm diameter nozzle. The temperature of the metal was measured with a platinum-platinorhedium immersion thermocouple. The metal and slag composition were determined by chemical analysis. Water was added with oxygen for cooling in addition to iron ore, in variations I and III only the water froze in the piping during the II. The fluidity of slag was rated by its visual flowing in skimming. The slag was absolutely homogeneous after 5 min in the first period and easily removable from the tuyers which usually is not the case. A part of the lime apparently dissolved in Fe-Si slag instantaneously only up to the moment of calcium monosilicate formation; the basicity of primary slag (about 1.0) confirmed this assumption. The lowered addition of lime did not affect the life of the basic lining. The metal loss with slag was lower than with usual lime additions. The absence of bauxite (normally used for the liquefying of slag) did not affect the desulfuration. It was found that an increasing FeO-content in the slag raises the P2O5 content in it and reduces

Card 2/7

The slag regime for converter steel melting...

23626 S/148/60/000/012/020/020 A161/A133

the P content in the metal. This means that a high FeO content in slag at the end of the first and second blowing period is necessary. High FeO concentrations in slag can be reached by holding the tuyers on a higher level above the metal (Fig. 5), but this is not necessary for the whole heat time. Metal ejections from the converter did not occur at the high tuyere position with the described slag regime, contrary to the oxygen process with the high lime quantity (55 - 70 kg/t) and the high tuyere level above the metal Ref. 4: 0. N. Kostenetskiy. Proizvodstvo stali v konverterakh s produvkoy kisloroda s verkhu ("Steel production in converters with oxygen top blowing", Trudy NTO chernoi metallurgii, Metallurgizdat, 1957, 53]. It was not possible to establish a clear relation between the time of the tuyere staying at one level and the slag basicity, for the number of measurements was not sufficient, but it was clear that 18 - 20% FeO must be present in the slag during the first blowing period and 10 - 12% during the second to reduce the P content in metal to 0.015 - 0.025%. This FeO content in slag could be reached by holding the tuyere 1,400 - 1,550 mm above the metal surface at the end of each period and blowing $75 - 80 \text{ m}^3/\text{min}$ oxygen for 2 min. Optimum dephosphorization was attained at 1,600 - 1,630°C metal temperature at pouring. The effect of the FeO content in slag at blowing end and P con

Card 3/7

23626

The slag regime for converter steel melting...

5/148/60/000/012/020/020 A161/A133

tent in metal can be expressed in equations - for the first period (at 9 - 22% FeO in slag) - [P] = -0.00031 (FeO)_I + 0.103; and for the second period (5 - 14% FeO in slag) - [P] = -0.0044 (FeO)_{II} + 0.0739; and the effect of final metal temperature (in the 1,580 - 1,740°C range): [P] = 0.000246t - 0.376, where [P] is the phosphorus content in metal in %; FeO - the FeO content in slag, and t metal temperature in °C. The heat is recommended to be controlled by iron ore additions only, and in quantities necessary to absorb heat; at 0.6 - 0.8% Si in iron, ore quantity may be not below 8% of the weight of liquid iron. Conclusions: 1) A process with lime addition in smaller quantities is feasible. 2) The suggested slag regime cuts lime consumption from 80 - 85 to 45 - 50 kg/t, or 40 - 45%. 3) With skimming primary slag, the suggested regime can increase the iron output. 4) Bauxite can be eliminated; 5) The basicity (CaO:SiO₂) of final slag should be maintained at 2.3 - 2.5. Basicity higher than 2.5 is not recommended. 6) The suggested method eliminates slag and metal throws from the converter at high slag acidity, and facilitates the conditions for the automation of the blowing. 7) The lower lime quantity does not impair desulfuration in comparison with the current process practice. 8) The slag acidity can be con-

Card 4/7

ic

The slag regime for converter steel melting... 5/148/60/000/012/020/020
A161/A133

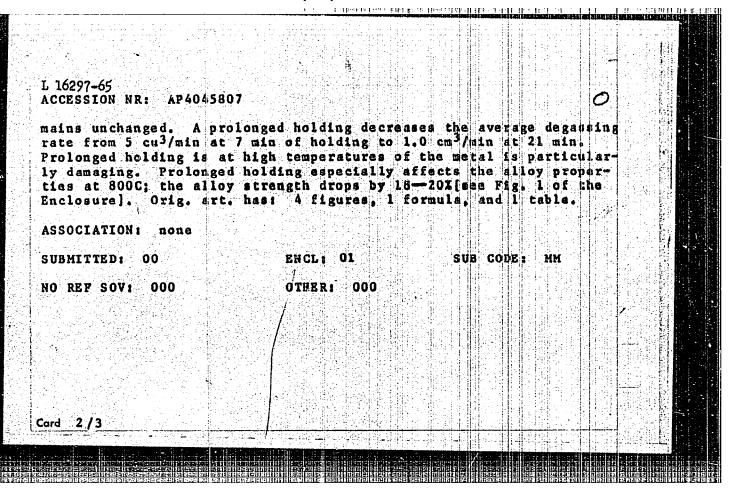
trolled by the tuyere position above the metal surface. 9) The metal temperature and slag acidity at the basicity of 2.3 - 2.5 ensure sufficient elimination of phosphorus from metal. 10) The work of converter operators is facilitated through easy cleaning of the tuyere from slag. There are 6 figures and 5 Soviet-bloc references.

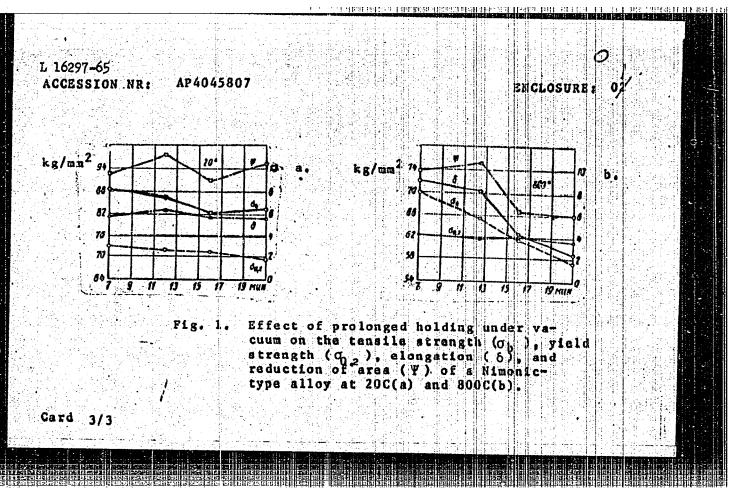
ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: April 6, 1960

Card 5/7

L 16297-65 EWI(m)/EWP(t)/T/EWP(b) Pad IJP(c)/ASD(m)-3 ID/HW/JG ACCESSION NR: AP4045807 S/0128/64/000/009/0005/0006/ ACCESSION NR: AP4045807 AUTHOR: Gagin, S. D. (Candidate of technical sciences) TITLE: Effect of holding the molten metal under vacuum on properties of chromium-nickel alloy SOUPER: Liteynoye proizvodstvo, no. 9, 1964, 5-6 TOPIC TAGS: chromium nickel alloy, nimonic alloy, alloy wacuum degassing, chromium nickel alloy property, chromium nickel alloy degassing, alloy vacuum induction melting, vacuum induction melting ABSTRACT: The study of the effect of holding a finished heat of chromium-nickel alloy nimonic in a vacuum induction furnace revealed that the prolonged holding has a negative effect on the gas content. A satisfactory degree of degassing is achieved in the first 6-8 min. Holding prolonged to 21 min increases the total gas content in the alloy from 0.006 Z to 0.010 Z. the oxygen locon tent to 0.007 Z, while the content of nitrogen pincreases insignificantly (from 0.0014% to 0.0020-0.0030%) and that of hydrogen re-Card 1/3

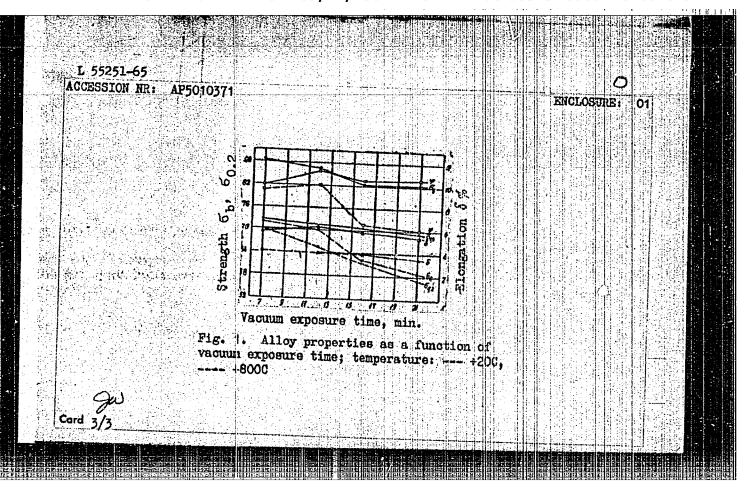




<u>L 55251-65</u>		(b) Pad IJF(c) JD/HW/JG
ACCESSION NR	AP5010371	US/0145/65/000/003/3024/0030
AUTHOR: Gagi	r, S. D. (Candidate of techni	cal sciences, Rogent)
TITLE: Effective nickel alloy	te of vacuum remelting on gas	saturation and properties of a circus-
	. Mashinostroyeniye, no. 3, 19	"。 有字句 医自身病 "我们就说,我们就用我们。""我们就就会自己的,只是不会说的,我们就是这个人,我们
TOPIC TAGS:	vacuum melting, chrome nickel	alloy, chrone alloy, makel allo
of chrome-nica	study the effects of vecuum r	emelting on gas saturation and
in a 10-kg car	pacity industing Ni- base), spec	piziens of the alloy were varyum repolities
Oxygen content	itrogen remained at roughly 0	.0004% and 0.000% reministration of
1 1 20 SJ III	or O cosst (separation of N2, H2, and O2 was found
to decrease fr		end 0.000775/min after 7 minutes in respectively after 21 minutes in vacuum.

L 55251-65				
ACCESSION NR: AP5010371 0.0073 to 0.0044% but furt ing the time in vacuum to	ther increase in speed had negl 7 minutes does not increase th	ligible effec	t, thus decreas-	
carbon during vacuum ramol	at 12 minutes in vacuum. The	reducing pr alloy is ke	operties of the molten in a	
decrease the alloy propert	ies as shown in Fig. 1 on the	osure to vac	um was found to	
decrease the alloy propert 5 figures and 3 formulas.	ies as shown in Fig. 1 on the	osure to vac Enclosure. (um was found to rig. art. has:	
decrease the alloy propert 5 figures and 3 formulas.	ne optimin time. Extended expises as shown in Fig. 1 on the nergeticheskiy institut (Mosco	osure to vac Enclosure. (um was found to . rig. ext. has: eering Inst!-	
decrease the alloy propert 5 figures and 3 formulas. ASSOCIATION: Moskovskiy entute)	ies as shown in Fig. 1 on the	osure to vac Enclosure. (um was found to rig. art. has:	
decrease the alloy propert 5 figures and 3 formulas. ASSOCIATION: Moskovskiy estate) SUBMITTED: 280ct64	ies as shown in Fig. 1 on the nergeticheskiy institut (Mosco	osure to vac Enclosure. (um was found to . rig. ext. has: eering Inst!-	
decrease the alloy propert 5 figures and 3 formulas. ASSOCIATION: Moskovskiy estate) SUBMITTED: 280ct64	ies as shown in Fig. 1 on the nergeticheskiy institut (Mosco	osure to vac Enclosure. (um was found to . rig. ext. has: eering Inst!-	

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000614010010-8



GAGIN, S.D., kand. tekhn. nauk

Effect of temperature conditions on the properties and gas content of a chromium-nickel vacuum-melted alloy.
Lit. proizv. no.ll:5-7 N '65. (MIRA 18:12)

SOURCE CODE: UR/0128/65/000/011/0005/9007 JTHOR: Gagin, S. D. (Candidate of technical sciences)	
	17
G: none	1 3 4 3 5 4 4 4 4 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6
TLR: Effect of temperature regime on the properties and gas content of chronium-	
URCE: Liteynoye proizvodstvo, no. 11, 1965, 5-7	and the second
「食」、「食」、「食」、「食」、「食」、「食」、「食」、「食」、「食」、「食」、	
PIC TAGS: vacuum melting, temperature dependence, nickel base alloy, chromium ntaining alloy, vacuum furnace, titanium, aluminum oxide, vacuum degassing	
STRACT. The state of the state	
STRACT: This is a continuation of a previous investigation (Gagin, S. D. Liteynoye oizvodstvo, 1964, no. 9) with the difference that it deals with the effect of the	
mperature of the molten metal (Ni-base alloy) on its content of oxygen, hydrogen and	
rnace (7.10-1 mm Hg). It is established that the pyrometer, in a vacuum induction	
50°C to 1260°C, its 0 content increases from 0.004 to 0.007%; H content, from 0.0002	
0034%) and the total content of content is almost unchanged (0.0026-	
parently due to a decrease in the deoxidizing capacity of C with increasing tempera-	
e; the reason for this decrease appears to be the increase in the reaction rate of	\$
urd 1/2 UDC: 621.74.045:669.14.018.44:669.785	24
33,000,0044,009,769	-1,000

the reduction of the f Ti, the increase in th	urnace-crucible ma	terial by the	active elom	onto of the	ا الماد	,
and the increase in the	e solubility of o	c or the oxide	s or the 11	ning materi	al (Al ₂ O ₂)	The state of the
the liquidus line, i. alloys gas content and	the decrease in the	igher, in order	to prevent	to 200-250	°C above se in the	7.5
alloys gas content and concomitant decrease in l table.	the strength prop	perties of the	capacity of alloy. Original	E C as well 3. art. has	as the : 5 figures	10 mg 14
SUB CODE: 11, 13/ SU				11.11.11.11		2
						A CARLO CONTRACTOR
						(D) (1) (C)
2/2 VV						W. L.
	the first to the second of the second	15 month 24 % [14]	T - 12.00 1 1 1 1			

USSR/RUMANIA/Petroleum - Drilling Jan/Peb 50
Machinery
Drills, 011 Well

"Soviet Drill Pipes," T. Gagin, Engr, 3½ pp

"Petrol si Gaze" No 1

Describes drill pipes used in Soviet petroleum industry, listing materials and their technical and mechanical properties. According to aid schedule, Rumanian petroleum industry will receive some drill pipes from USSR.

21,2100

Ĭ

69357 S/139/59/000/06/014/034 E032/E114

The belt moves with a

Gagin, Ye.N., Grebenshchikov, S.Ye., Pisarev, V.R. AUTHORS:

TITLE: Some Problems Associated with the Design of an Electron

Electrostatic Van de Graaf Generator

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 6, pp 95-101 (USSR)

ABSTRACT: This paper was presented at the Inter-Collegiate Conference on Accelerators (Tomsk, February 1958). describes the Van de Graaf generator at the Physical Institute imeni P.N. Lebedev of the Academy of Sciences, USSR. The machine was completed in 1956. The generator is in a horizontal position and is mounted on three insulating columns 1.8 m long each. The 60 distributing rings and the high voltage electrode are made of duralumin. The high voltage electrode is in the form of cylinder connected to a hemisphere 38 cm in diameter. The electrodes in the accelerating tube are in the form of thin stainless steel discs with apertures 8 cm in diameter. The accelerating tube is 1.8 m long and is Card made up of 180 electrodes separated by porcelain rings. The width of the belt is 26 cm.

1/2

ASSUCIATION: Fizicheskly institut imeni P.W. Lebedeva AN Soon (Institute of Physics imeni P.N. Lebedev, Academy Sciences, USSR)

SUBMITTED: December 27, 1958

\$/908/62/000/000/003/008 B163/B180

AUTHORS:

Gagin, Ye. N., Metal'nikov, Yu. N., Pisarev, V. Ye.

TITLE:

Electrostatic Van de Graaff generator and injector for the

680 Mev synchrotron

SOURCE:

Uskoritel' elektronov na 680 Mev; sbornik statey. Ed. by Z. D. Andreyenko. Moscow, Gosatomizdat, 1962. 31-40

TEXT: A Van de Graaff generator formerly used for proton acceleration to 800 kev was converted for operation with electrons. For high capture efficiency the voltage was stabilized to \$0.06%. The path from source to accelerater is 7 m. A pulsed supply system was developed, for the source, for short pulses with a maximum current amplitude of 20 ma. generator is 1.8 m long, with 60 potential-dividing hoops. The highvoltage electrode is 76 cm diam.; the accelerating tube consists of 180 alternating flat electrodes and porcelain rings; the charging belt 4-ply rubberized percale, is 26 cm wide, and moves at 21 m/sec. The emire assembly is encased in a steel shell filled with nitrogen at 5.5-7 atm, with relative moisture 0.05%. The electron gun is a

Card 1/2

Electrostatic Van de Graaff ...

S/908/62/000/000/003/008 B163/B180

three-electrode system with a magnetic focussing lens. The emission current pulse is triggered by applying a positive potential to the grid electrode in front of the L cathode. The beam has an opening angle of 0.7 \cdot 10-3 rad. The trigger pulse has a front of 0.1 μsec , and the duration can be varied from 1 to 40 μ sec. Circuit diagrams are given of the electron source, pulse generating device and stabilization arrangement. There are 6 figures.

Card 2/2

S/908/62/000/000/004/008 B163/B180

AUTHORS:

Gagin, Ye. N., Kaminir, L. B., Molchanov, S. S., Orlovskiy, G. N., Pisarev, V. Ye., Pyshkin, B. N., Fedotov, A. F., Yakimenko, M. N.

TITLE:

System for electron injection into the chamber of the

680 Mev synchrotron

SOURCE:

Uskoritel' elektronov na 680 Mev; sbornik statey.

Z. D. Andreyenko. Moscow, Gosatomizdat, 1962. 41-49

TEXT: The method is the same as in the Dubna 10 Bev proton synchrotron. Particles of constant energy are injected into the magnetic field of the first quadrant almost at right angles to the magnet radius; injection is stopped on reaching the equilibrium orbit of the chamber center, and the accelerating field is switched on direct injection is impossible, due to the design of the accelerator magnet and the high-voltage injector (injection energy 0.8 Mev). The electron beam from the Van de Graaff generator is first deflected by a magnetic 600 sector field and then injected by three pairs of deflection plates for a total deflection of

Card 1/2

System for electron injection ...

S/908/62/000/000/004/008 B163/B180

300, into the synchrotron chamber. Between the Van de Granff exit and the magnetic deflector there is a magnetic corrector consisting of two pairs of magnetic polepieces to correct the eccentricity of the accelerated beam with respect to the geometrical axis. Directly behind the magnetic deflector is a 1.5 kv electric deflector which can be used to select short pulses of 1 µ sec. When switched off, the beam passes through a horizontal slit diaphragm. The alignment can be checked on two fluorescent screens. A double electrostatic corrector and two capacitors adjust the position and angle of the beam in the deflectors of the injector, which are in one of the straight sections of the accelerator. Each plate can be separately adjusted by translation and retation from outside without destroying the vacuum. The radius of curvature of the orbit in this deflection system is 60 cm. The voltage across each pair of plates can be controlled separately. A rough estimate shows that an instability of 2 · 10-3 rad in the radial and 5 · 10-3 rad in the axial component of the injection angle produce an intensity loss of 20%. The instabilities of the supply sources are of the order of 0.01 to 0.06%. Circuit diagrams are given for the d.c. amplifier and the rectifier for the reference voltage. There are 5 figures and 1 table.

Card 2/2

5/908/62/000/000/007/008 B163/B180

AUTHORS:

Babkin, V. M., Bozin, G. M., Gagin, Yo. N., Yeremin, L. Metal'nikov, Yu. N., Orlovskiy, G. N., Petukhov, V. A., Pisarev, V. Ye., Sedov, N. G., Shorin, K. N.

TITLE:

Some starting-up and operating problems of the 680 Mev

synchrotron

SOURCE:

Uskoritel' elektronov na 680 Mev; sbornik statey. Ed. by Z. D. Andreyenko. Moscow, Gosatomizdat, 1962. 64-74

TEXT: The momentary particle orbit during the first revolutions is distorted due to a number of uncontrollable deviations from the ideal magnetic field configuration. This must be corrected in order to capture a sufficient part of the injected electrons. Indicating devices measuring deviations help to find the initial conditions, e.g., the correct injection angle and timing for which the free oscillations about the equilibrium orbit become minimal during the first revolutions. Similar methods were used to correct for deviations of the median surface of the magnetic field from the geometrical symmetry plane. For these measurements

Card 1/3

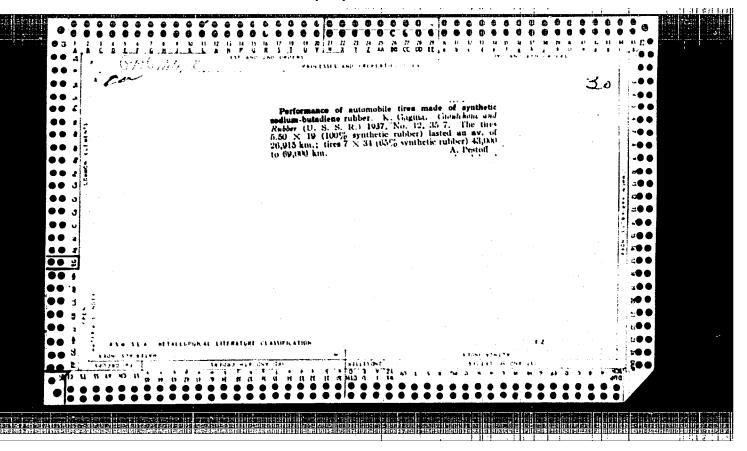
Some starting-up and operating ..

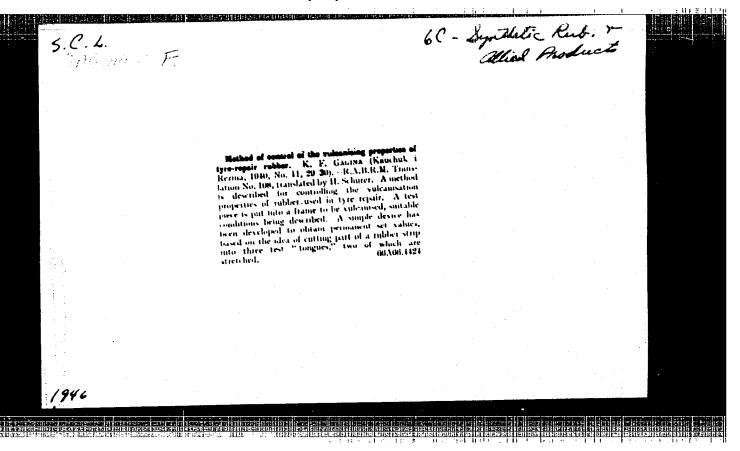
S/908/62/000/000/007/008 B163/B180

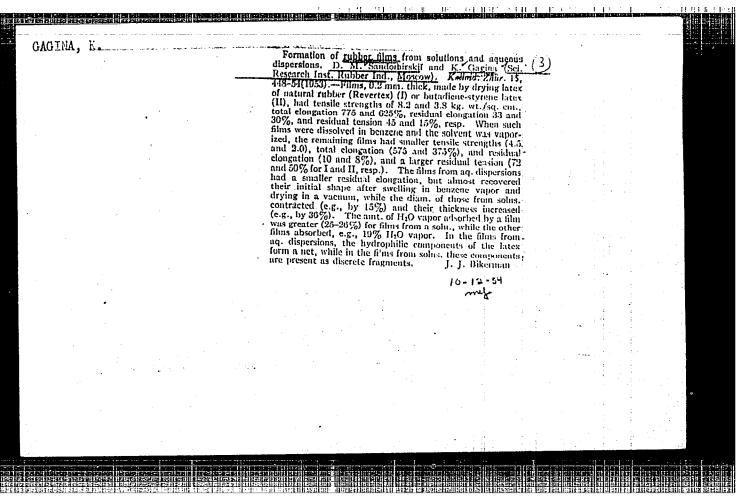
a chopper was used, consisting of an electric deflector immediately behind the 600 magnetic sector field in the injection line, by which short pulses of 1-2 μsec duration could be selected from the injected beam. The signalling devices were flags and grids coated with luminescent paint, sometimes in connection with photomultipliers. In this way the orbit deviations could be reduced to 2-3 cm in radial in 1-2 cm in vertical direction. In the quasibetatron and the synchrotron acceleration stages the envelope of all oscillating orbits was measured by movable vanes, three or four in each sector. In the first stage, about 15 usec, the accelerating field is disconnected but the magnetic field is growing. When the momentary particle orbit has been reduced, at 0.2 to 0.3 mm per revolution, from the inflector to the central chamber radius, the accelerating electric field is switched on. Under optimal conditions, the capture coefficient is 2%, which corresponds to 2.5.109 electrons per cycle. To avoid undesirable resonance effects from the passing electron beam in the resonator during the first stage the resonator is detuned, and the second stage is performed at a smaller orbit radius. When the field is switched off at the end of the accelerating cycle, the magnetic field is still rising and the electrons hit the target, a tungsten wire 1 mm

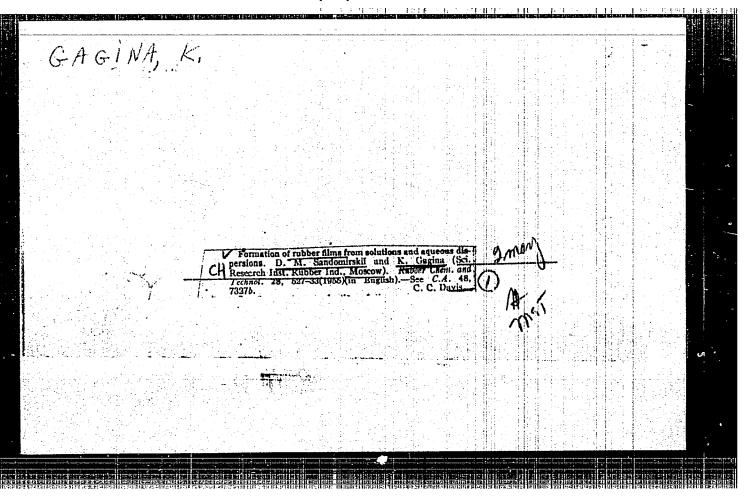
Card 2/3

Some stari	; ting-up and opera	ting	S/908/62/000 B163/B180)/000/007/008	
total y en	ergy per cycle of cated electrons n	f 2.102 Married gr	intensity of the paphite ionization i be achieved, and the order of 108.	chamber. A	
Card 3/3					
The high state of the state of					



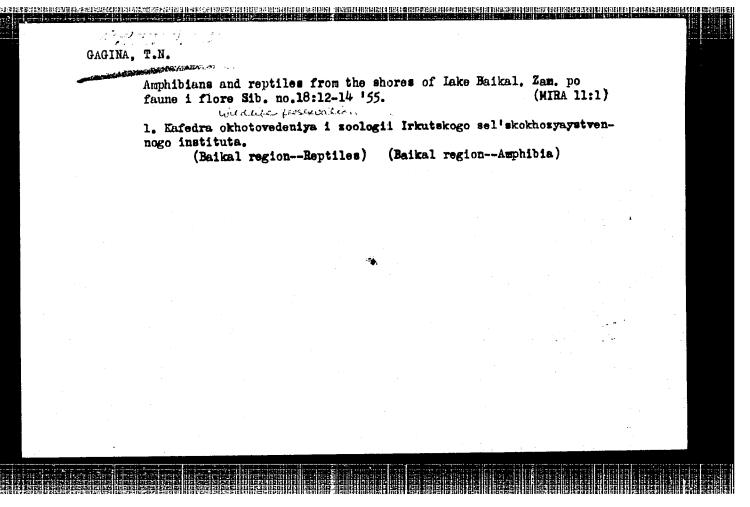






GAGINA	$9, \mathcal{T}.\mathcal{N},$
USSR/Blology	- Ornithology
Card 1/1 :	Pub. 86 - 34/40
Authors :	Gagina, T. N.
Title :	The blue magpie in the Irkutsk district
Periodical :	Priroda 43/4, 117-118, Apr 1954 Observations of ornithologists establish the fact that the blue magnie also inhabits the Irkutsk region as against the accepted statements in published literature that this bird is only to be
Ani a Maraka	found eastward from Lake Baikal. Illustration.
Institution: Submitted:	

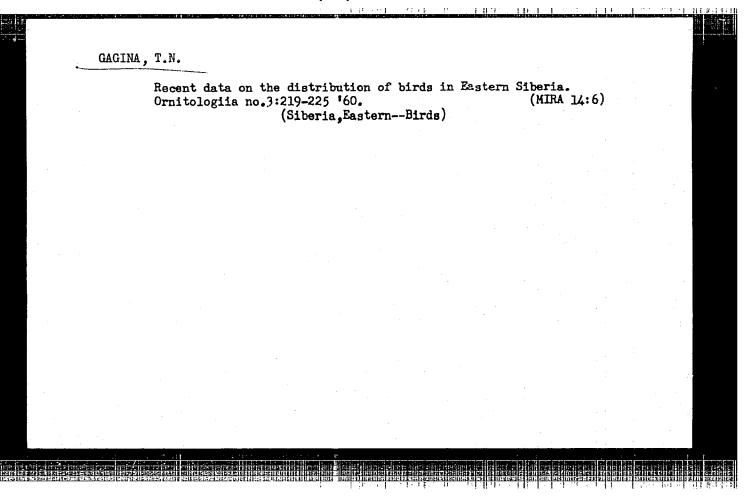
T.N. GAG USSR/Biolog	
	: Pub. 86 - 29/38
Authors	Gagina, T. N.
Title	The sable and the muskrat
Periodical	: Priroda 43/12, page 115, Dec 1954
Abstract	An increase in the number of sables in the region near Irkutsk is noted. A study of the habits of this animal showed that it
	invades the areas occupied by the muskrats and drives out the latter animal, but that the hides of sables caught on the muskrat grounds are of inferior quality.
Institution	latter animal, but that the hides of sables caught on the muskrat grounds are of inferior quality.
	latter animal, but that the hides of sables caught on the muskrat grounds are of inferior quality.
	latter animal, but that the hides of sables caught on the muskrat grounds are of inferior quality.
	latter animal, but that the hides of sables caught on the muskrat grounds are of inferior quality.

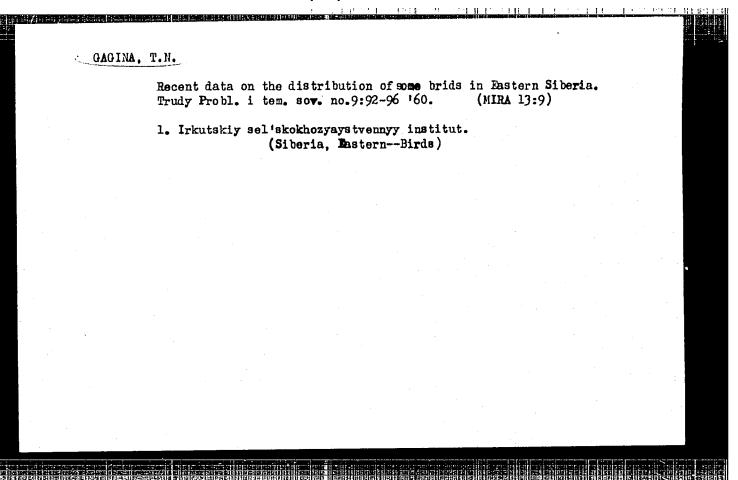


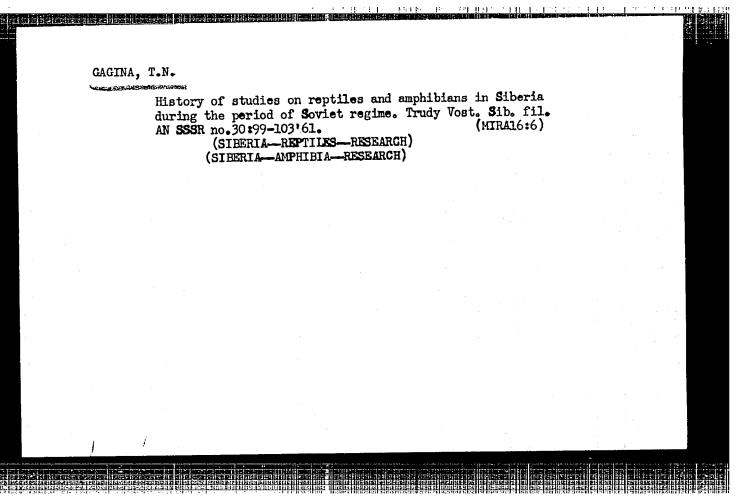
USER/Biolog	- Ornithology	
Card 1/1	Pub. 86 - 35/37	. ,
Authors	Gagina, T. N.	
Title	Birds of central Vilyuy	
Periodical	Priroda 44/4, 124 - 125, Apr 1955	
Abstract	그 등 작품들이 있는 학식 이 그의 중요 전략 이 시간 등을 한 것 같다. 그렇게 한 특별 한 부모의 독특별한 그는 사람들 함께	
409 0.400	A review is made of the book, "Birds of Central Vilyny", by B. Andreyev, auspices of the Institute for Training of Teachers of the Yakut Autonomous Soviet Socialist Republic, Yakutsk, 1953, 127 pages. One hundred and fifty-nine species of birds are presented in the book. Extracts of Yakut folklore are also included in the book, which is given a high rating.	
Institution	B. Andreyev, auspices of the Institute for Training of Teachers of the Yakut Autonomous Soviet Socialist Republic, Yakutsk, 1953, 127 pages. One hundred and fifty-nine species of birds are presented in the book. Extracts of Yakut folklore are also	
	B. Andreyev, auspices of the Institute for Training of Teachers of the Yakut Autonomous Soviet Socialist Republic, Yakutsk, 1953, 127 pages. One hundred and fifty-nine species of birds are presented in the book. Extracts of Yakut folklore are also	, n
Institution	B. Andreyev, auspices of the Institute for Training of Teachers of the Yakut Autonomous Soviet Socialist Republic, Yakutsk, 1953, 127 pages. One hundred and fifty-nine species of birds are presented in the book. Extracts of Yakut folklore are also	
Institution	B. Andreyev, auspices of the Institute for Training of Teachers of the Yakut Autonomous Soviet Socialist Republic, Yakutsk, 1953, 127 pages. One hundred and fifty-nine species of birds are presented in the book. Extracts of Yakut folklore are also	

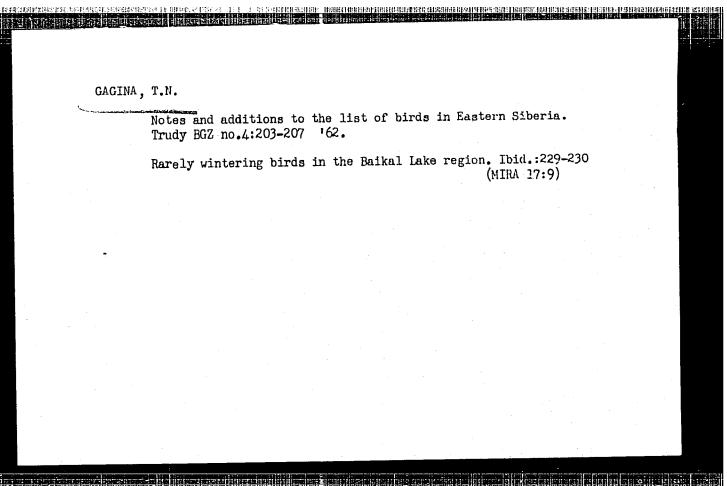
egriniae IIII	, T. Ni			
ussr/B	Biology - Snake distribution			
Gard 1	l/1 Pub, 86 - 21/36			
Author	s Skalon, V. N., Prof.; and G	agina, T. N.		
Title	Distribution of snakes arou	nd Baikal		
Periodi	ical : Priroda 44/6, 108 - 109, Ju	ı 1955		
Abstrac	st To the information in public southern portion of the Bail turalists add the finding of and Elaphe dion to the north Russian and Soviet reference	rel region near the cit such varieties as And and northeast of lake	ty of Irkutsk nu- cistrodon halys	
Instit	ution:			
Submit	ted :			

GAGINA, T.N., Cand Bio Sci(dies) "Birds of Baykal and Pribaykal and their									
	signific								
	175 copie								
									·
								· ·	
				-35					

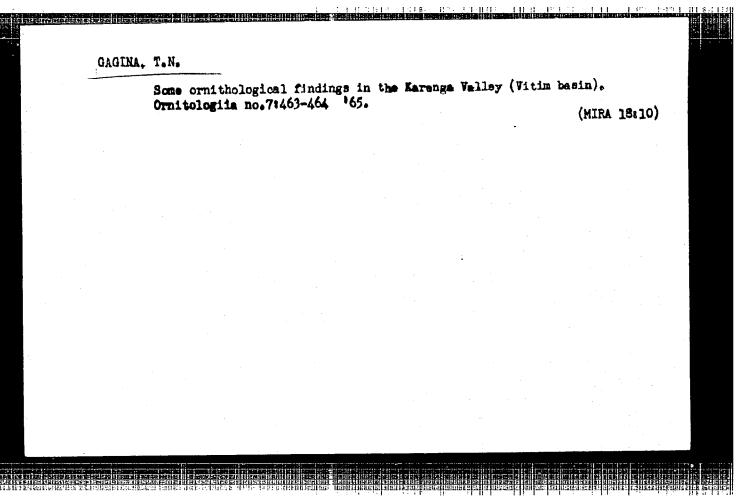


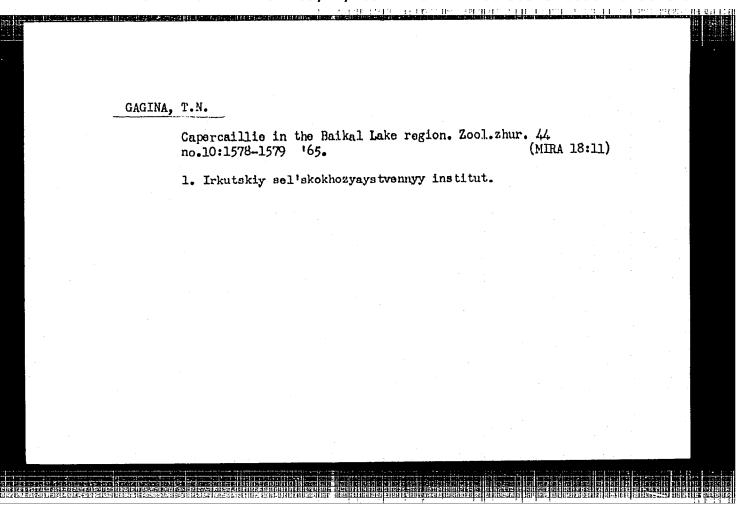






GAGINA,							
	Birds accidentally	found in Eastern Siberia.			Ornitologiia no.4:367-372 (MIRA 16:4)		
		(Siberia,	Eastern-	-Birds)			
					-		
							•

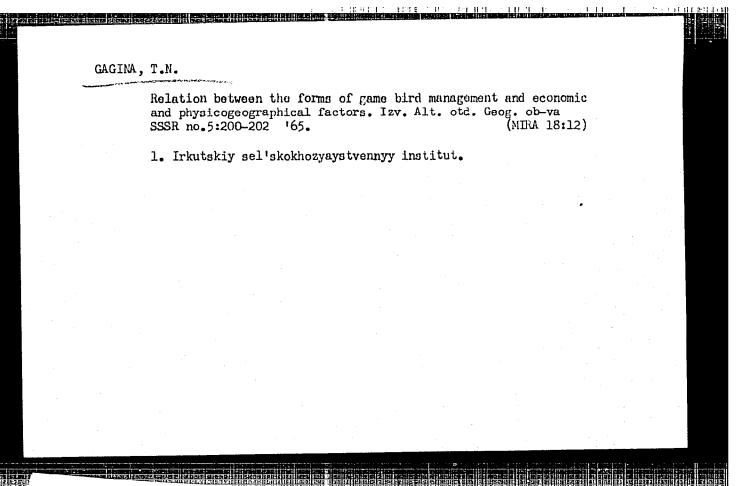




ZHUKOVA, A.A., kand. med. nauk (Moskva); GUREVICH, Yu.Ya. (Moskva);
FENENKO, N.F. (Zhdanov, Donetskaya oblast', UkrSSR); GINEVSKIY,
Ya.M. (Moskva); GAGINA, T.N. (Alma-Ata); VERESHCHAGIN, N.K.,
prof. (Leningrad); ABRAMOV, L.S.; SERGEYEV, A.S. (Moskva)

New books. Priroda 54 no.8:19, 35, 70, 102, 122-125 Ag '65.
(MIRA 18:8)

1. Institut geografii AN SSSR, Moskva (for Abramov).



BIT BEEN

[董明時代] [董明時代日本 [1815] [181] [1815] [USSR/Cuitivated Plants - Potatoes. Vegetables. Melons. Abs Jour : Ref Zhur Biol., No 18, 1958, 82363 M Author : Gagina, Ye.Y., Zolotukhina, Yu.S. Inst : Scientific Research Institute of Agriculture of the Title : Tornto and Cucumber Varieties for the Hothouses of Orig Pub : Byul. nauchno-tekhn. inform. N.-i. in-ta s. kh. ser.vost. r-nov nechernozemi. polosy, 1957, No 2-3, 27-30 Abstract : Tomato varieties Ural'skiy maogoplodnyy, Teplicanyy Brezhneva, Budennovka and Gruntovyy Gribovskiy were studied. Seedlings were prepared in the hothouses with atural soil 45-50 days prior to being transplanted in a permanent place at the rate of 5 plants per 1 eq are meter. The culture was 3 ided by one stem by tying Card 1/2 - 44 _

FIOSHIH, M.Ya.; VASIL'YEV, Yú.B.; GAGINKIHA, Ye.G.

Influence of the nature of the cation on the kolbe electrosynthesis. Dokl. AN SSSR 135 no.4:909-912 '60. (MIRA 13:11)

1. Institut elektrokhimii Akademii nauk SSSR. Predstavleno akademikom A.N.Frunmkinym. (Reduction, Electrolytic) (Oxidation, Electrolytic):

Abstract

: Iso-C5H11OH is oxidized to iso-C4H9COOH with KMnO4 in

an alkaline medium at 10 to 15°, the yield is 83%. (CH3)2CHCHDrCODr is condensed with NH2COCC2H5 in

APPROVED FOR PROJECT OF 159/19/1/2021 yiel CIA-RDP86-00513R000614010010-8

110 to 1110. 1 mole of (CH3)2CHCHBrCONHCONH2 and

Card 1/2

RUMANIA/Organic Chemistry - Synthetic Organic Chemistry. Abs Jour

G-2

: Ref Zhur - Khimiya, No 14, 1958, 46640

1.1 moles of KI are heated 30 min. in a mixture of acetone with alcohol, poured out into water, and (CH3)2CHCHICONHCONH2 is obtained, melting point 179

to 180°. (CH3)2CHCHICONHCOOC2H5 is obtained of 1

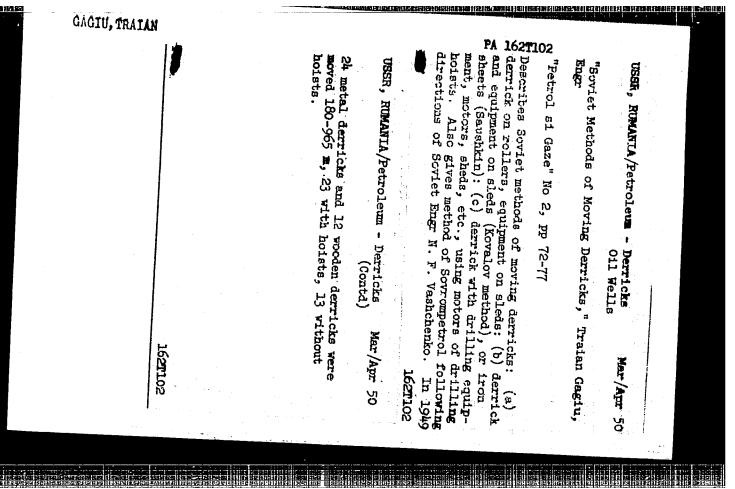
mole of I and 1.2 moles of KI in alcohol in the same

GAGIU, FEODORA MULLANIA MARCOVICI, M., M.D; GOLDMOSOVA, Eleonora, MD; GAGIU, Teodora, Tocinical "Dr. I. Cantacuzino" Instituto (Institutul "Dr. 1. Cantacuzino"), Bucharest, Viata Medicala, No 3, 1 Feb 63, pp 169-174. "Serological Study on the Efficacy of Attenuated Policyvelitis Vaccine and Comments on the Efficacy of the Salk Vaccine." (3)

MARCOVICI, M.; GOROMOSOVA, Eleonora; GAGIU. Teodora, assistante technique.

Contribution to the study of policmyelitis aradication in the oity of Bucharest. Arch. roum. path. exp. microbiol. 23 no.3:

1. Travail de l'Institut Tr. I. Cantacuzino*; Service des Interviroses, Bucarest.



GAGIU, T.

Eoring with an electric drill. p. 7. TEHNICA NOUA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 3, No. 36, Feb. 1956.

KIRKARATERAKETER BERATURKAR BERATURKA BERAT

So. East European Accessions List Vol. 5, No. 9 September, 1956

- 1. GAGIYEV, G. I.
- 2. APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000614010010-8"
- 4. Komi A.S.S.R. Poultry
- 7. Progressive practice in chick raising on collective farms of the Komi A. S. S. R. Ptitsevodstvo, no. 4 1952.

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

GAGIYEV, G.I.

HTEISS

"The Large Horned Cattle of Koma ASSR and Ways to Perfect it Further";

dissertation for the degree of Candidate of Agricultural Sciences (awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2, 1963, pp 232-236)

GAGIYEV, P.P., Cand Med ci -- (diss) "New anatomo-functional method of treating fractures of the distal end of the radius."

Ordzhonikidze, 1956 19 pp. (Sverdlovsk State Med Inst.

Severo-Osetinkiy State Med Inst) 200 copies (KL, 32-58, 111)

- 62 -

GAGIYEV, R.R., kand.med.nauk

Plastic splints for the forearm and hand. Khirurgiia 37 no.5: 130-131 My *61. (MIRA 14:5)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.L. Shapiro) Severo-osetinskogo meditsinskogo instituta.
(SPLINTS (SURGERY))