### "APPROVED FOR RELEASE: 08/23/2000

39824 \$/057/62/032/008/013/015 B104/B102

24.~(300) AUTHOR:

Lozgachev, V. I.

TITLE:

Theory of molecular currents at low pressures. I. Flow of a rarefied gas through tubes with diaphragms

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 8, 1962, 1023 - 1031

TEXT: This flow is studied on the assumption that the mean free path of the molecules is longer than the dimensions of the tube. Neglecting adsorption on the walls of the tube and assuming uniform temperature distribution on them the outflow of the gas from a cylindrical tube of length 1 with circular openings s<sub>1</sub> and s<sub>2</sub> is studied. Thereby a relation-

ship is established between the molecular density decrease along the wall and the penetration probability of the molecules through the tube in direct and reverse direction.

$$W_{i}(l) = \frac{6sl - 4s(R - 2r) - \pi l^{2}(R - l)}{6slA_{i} - 4s(R - 2r)B_{i} - \pi l^{2}(R - l)C_{i}},$$
(24)

Card 1/3

Theory of molecular currents ...

S/057/62/032/008/013/015 B104/B102

is obtained where

$$i = 1, 2, \quad R = \sqrt{l^2 + 4r^2}, \quad A_1 = 1 + \frac{s_1}{s_2} \cdot \frac{s_2}{s} P_{r,r}^{0r}(l),$$

$$A_2 = 1 + \frac{s_2}{s_1} \cdot \frac{s_1}{s} P_{r,r}^{0r}(l), \quad B_1 = 1 + \frac{s_1}{s_2} \cdot \frac{s_2}{s}, \quad B_2 = 1 + \frac{s_2}{s_1} \cdot \frac{s_1}{s},$$

$$C_1 = 1 + \frac{s_1}{s_2} \cdot \frac{s_2 - 4s}{2s}, \quad C_2 = 1 + \frac{s_2}{s_1} \cdot \frac{s_1 - 4s}{2s}.$$

 $W_1(1)$  and  $W_2(1)$  are the penetration probabilities of a molecule from  $s_1$  to  $s_2$  or in reverse direction, r is the radius of the tube,  $r_{1,2}$  are the radii of the tube openings  $s_1$  and  $s_2$ . This formula holds for long tubes; it is modified for short tubes and a further relation is obtained for W which makes it possible to calculate the penetration probability of a molecule through a tube system. There are 2 figures and 1 table.

ASSOCIATION: Vsesoyuznyy institut mineral'nogo syr'ya Moskva (All-Union Institute of Mineral Raw Materials, Moscow)

Card 2/3

Theory of molecular currents...

SUBMITTED: August 5, 1958 (initially)
Jung 9, 1961 (after revision)

Card 3/3.

# LOZGACHEV, V.I.

Distribution of molecular beams on a plane during evaporation in a wacuum. Zhur.tekh.fiz. 32 no.8:1012-1022 Ag \*62.

(MIRA 15:8)

## LOZGACHEV, V.I.

Theory of molecular beams at low pressures. Part 1. Flow of rarefied gases through pipes with diaphragms. Zhur.tekh.fiz. 32 no.8:1023-1031 Ag '62. (MIRA 15:8)

l. Vsesoyuznyy institut mineral'nogo syr'ya, Moskva. (Molecular beams) (Gas flow)

## LOZGACHEV, V.I.

Theory of molecular flow. Part 2. Passage through vessels of arbitrary shape. Zhur. tekh. fiz. 32 no.9:1123-1133 S '62.

(MIRA 15:9)

1. Vsesoyuznyy institut mineral'nogo syr'ya, Moskva. (Molecular beams)

S/076/63/037/003/011/020 B101/B215

AUTHOR: Lozgachev, V. I.

TITLE: Effusion method for measuring vapor pressures

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 3, 1963, 644-646

TEXT: It is suggested that the approximate equations of H. L. Johnston, A. R. Spaiser (Trans. Amer. Soc. Metals, 42, 287, 1950) and M. G. Kossman, I. Jarwood (J. Chem. Phys. 1, 1406, 1953) be replaced by an improved equation to eliminate errors in vapor pressure measurements by effusion:  $P_{eff}/p = (\alpha/Kf)\omega(\alpha)$ , where  $\alpha$  is the condensation coefficient,  $f = s_0/S$ ,  $s_0 = surface$  of outlet, S = surface on which the vaporization process takes place;  $\omega(\alpha)$  is the probability that one particle leaves the surface and enters the vacuum, averaged over the entire vaporizer surface. k(1) = 1/(1+1/r), where 1 is the length of tube, holds for K. The K calculated for different 1/r values are in good agreement with the data known from publications. The equation suggested above is applicable for various outlet sizes. There are 2 figures and 1 table.

Effusion met	hod for meas	uring vapor	S/076/63/037/003/011/020 B101/B215			
ASSOCIATION:	Vsesoyuzny of Mineral	y institut minera Raw Materials)	l'nogo syr'ya	(All-Union	Institute	
SUBMITTED:	January 27	, 1962				
음료 중인 회사 회사의 경기 기업 기업 기업						
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Card 2/2				Tanana ang kanana ang		

## LOZGACHEV, V.I. (Moskva)

Methods of measuring the pressure of vapors of low-volatility substances. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.4:31-38 Jl-Ag '61. (MIRA 14:8)

(Vapor pressure) (Volatility)

EWI(1) AFWL -- -- 12 (64 (000 (011 (0031 (0034) . Th. NR. AP5001523 I de amanta L. Ye. Zhlopinsky B. V. Lorganiev, Ye. G. I now device for determining the static and dynamic hardness of rocks under static .. : und rock pressures 10 Neft' i gaz, no. 11, 1964 31-34 Tall rock property, physicomechanical rock property, high pressure press, and ess, hydrostatic press, rock pressure The block pressures encountered by one declared deep weeks have a significant chect on the physicomechanical properties of the cheft of the Leville tion available on this problem, partly due to the complexity and cost of the necessary - Those devices usually consist of a complex chamber within worch the necessary . Williard by means of liquids to the paper the authors propose I new of the Page 1 K the Rose water in was a conservation which and a conservation The second second second to static pressure is modeled by a pressure condition which are the continues The device is theoretically cause and producing pressures in excess of 

* Petroler Liminary Linm of whi Liatic pr	essures Orig art	d at up to the lead outlines fats taken as a measur has 2 figures	r The a releataw e of the h	rticle discusses high should clarify ardness of rocks inder
SOCIATION: Gr BD: 06N	vanenskiy neftyanoy ii May64 FNCL: 0	netitut (Grozny*y P		
REF SOV: 002	•		מפככי	66
2/3				

DETINOVA, T.S.; LOZGACHEVA, V.A.

Mechanism of gonotrophic harmony in the common malaria mosquito (Anopheles maculipennis Mg.). Zool.zhur. 32 no.6:1178-1188 H-D '53.

(MLRA 6:12)

1. Mintomologicheskiy otdel Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva dzravookhraneniya SSSR. (Mosquitoes)

SIMONYANTS, L.Ye.; ZIIIOBINSKIY, B.A.; LOZGACHEV, Ye.G.

The effect of plasticity on the disintegration of rocks. Izv. vys. ucheb. zav.; neft' i gaz 7 no.3:19-23 '64.

1. Groznenskiy neftyanoy institut.

(MIRA 17:6)

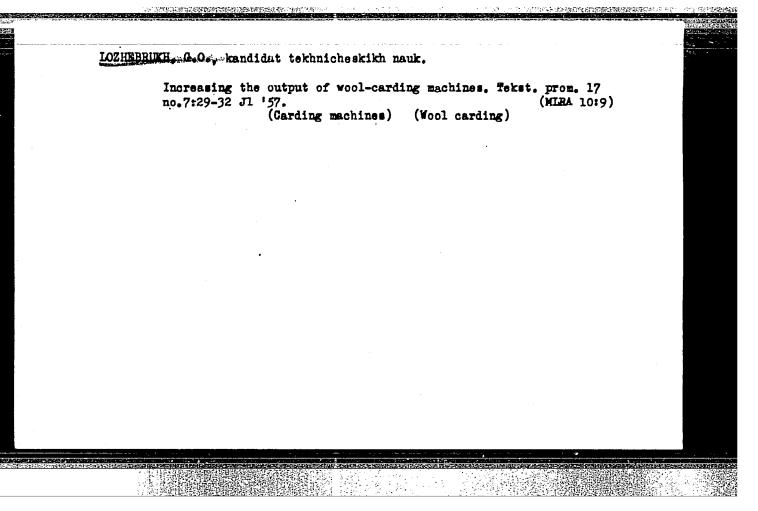
SMILGA, Ya. [Smilga, J.] (Riga); LOZHA, V. [Loza, V.] (Riga)

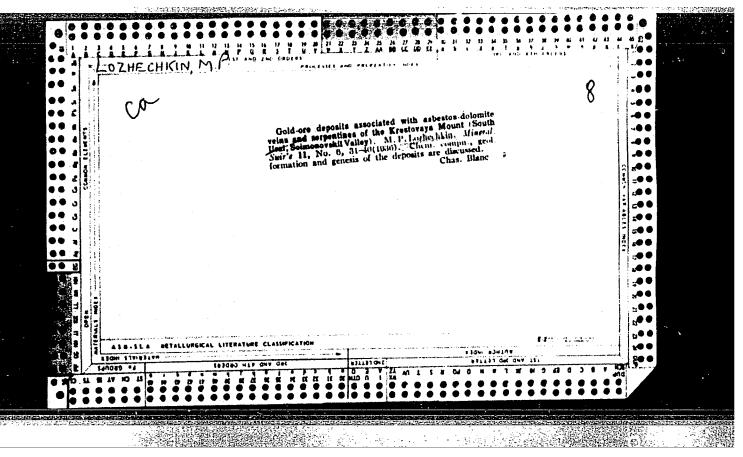
Hemolytic test for the diagnosis of leptospirosis. In Russian.

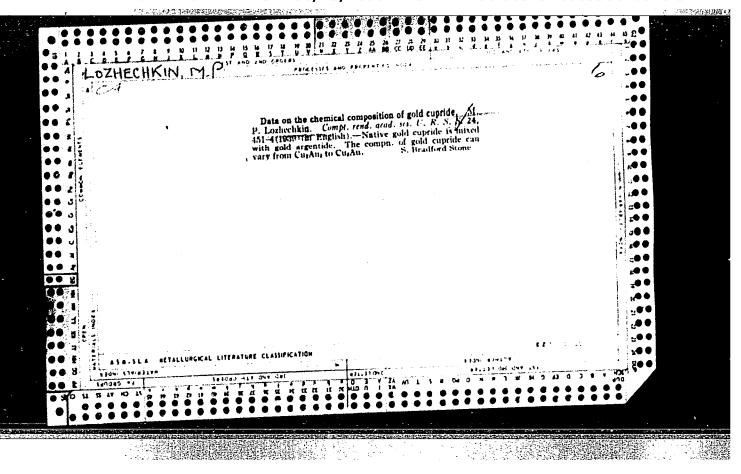
Vestis Latv ak no.4:159-162 '60. (EEAI 10:7)

1. Akademiya nauk Latviyskoy SSR, Institut mikrobiologii.

(HEMOLYSIS AND NEMOLYSINS) (LEPTOSPIROSIS)







15-57-1-958

Referativnyy zhurnal, Geologiya, 1957, Nr 1, Translation from:

153 (USSR)

AUTHOR:

Lozhechkin, M. P.

TITLE:

The Principal Faults in Exploratory Work and the Determination of Mineral Reserves (According to Data from CKZ)(?) Osnovnyye nedostatki rabot po razvedke i opredeleniyu zapasov mestorozhdeniy poleznykh isko-

payemykh (Po materialam GKZ)/

PERIODICAL:

Sov. geologiya, Nr 49, 1955, pp 11-20.

ABSTRACT:

The author remarks on the inadequate study of the geology and the structure of mineral deposits and adjoining districts. This lack is reflected in the absence of detailed geologic, geologic-structural, and morphological maps, and it is thus impossible to appraise the prospects of a deposit or properly to direct prospecting and exploratory work. He also comments on the inadequate coordination of geological

Card 1/3

exploratory work and the absence of composite studies

15-57-1-958

The Principal Faults in Exploratory Work (Cont.)

on deposits and districts; the inadequate study of the possibilities of composite use of the mineral raw materials (of components and elemental admixtures); the absence of techniques for determining the density of points in an exploratory net for exploring the limits of the deposit; the absence of comparative data on exploratory work and actual production; the inadequate use of rapid methods for analyzing samples to obtain preliminary data on the content of useful components in the ores (a failure which leads to excessive loading of the chemical laboratories); the insufficiently broad use of geophysical work and the lack of direction in applying the results that are obtained. Drilling operations are not always carried out in sufficient volume and are commonly characterized by poor quality (low core recovery, extensive curvature of the drill hole, lack of sampling muds). During a number of exploratory operations on particular deposits, mining operations were not considered, thus making it impossible to judge the internal structure of the ore bodies and the variations in thickness and content. The technical study of mineral raw materials often lags behind exploration and delays the industrual utilization of deposits. Card 2/3

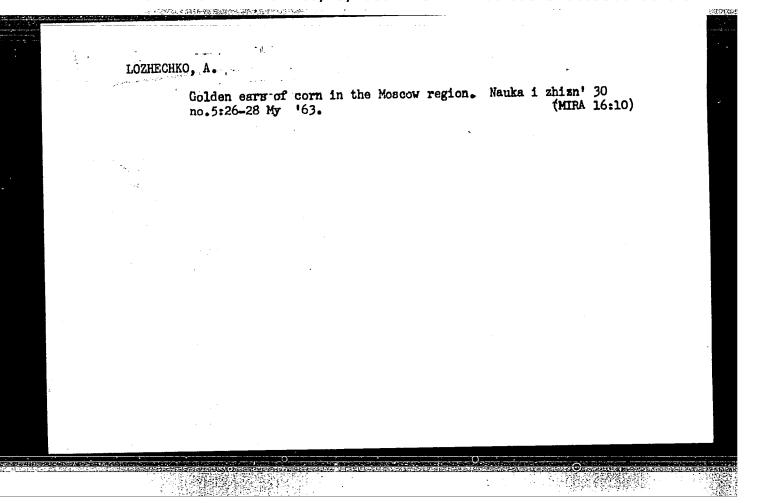
15-57-1-958

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The Principal Faults in Exploratory Work (Cont.)

Proper attention has not yet been given to the establishment of correct conditions. Reports are extremely cumpersome. In the study of a majority of deposits, there is no general plan for geological-of a majority of deposits, there is no general plan for geological-of a majority of deposits, and this lack increases the time required for exploration work, and this lack increases the time required for exploration, adds to the difficulty of discovering the general exploration, adds to the deposit, and leads to excessive outlays of prospects for the deposit, and leads to excessive outlays of capital.

A. P. P. Card 3/3



ACC NR: AP7006716

SOURCE CODE: UR/0113/66/000/012/0016/0018

AUTHOR: Belen'kiy, Yu. B. (Candidate of technical sciences); Imasheva, N. P.; Furunzhiyev, R. I.; Lomako, D. M.; Lozhechnik, F. D.

ORG: Belorussian Polytechnical Institute (Belorusskiy politekhnicheskiy institut); Minsk Automobile Plant (Minskiy avtozavod); IM AN BSSR

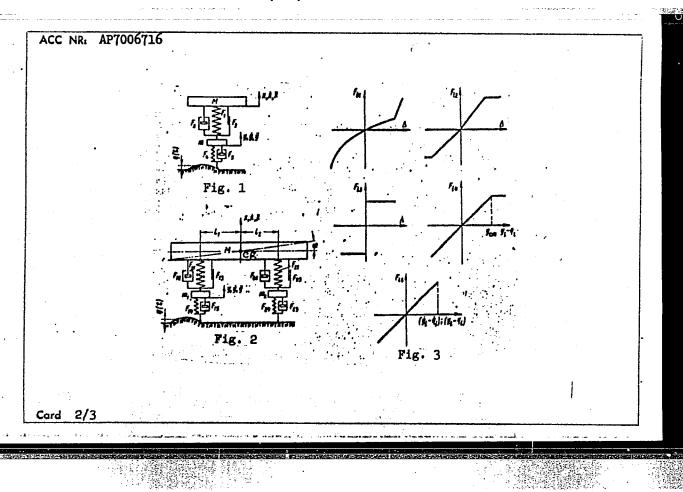
TITLE: Effect of the damping properties of a tire on the vibration parameters of an automotive vehicle

SOURCE: Avtomobil'naya promyshlennost', no. 12, 1966, 16-18

TOPIC TAGS: machine vibration, vibration damping, tire, vehicle engineering

ABSTRACT: A method is proposed for calculating the effect which the improved damping properties of modern low-pressure multi-ply tires have on the vibration parameters of a motor vehicle. The mathematical analysis is based on the dynamic models shown in Figures 1 and 2. Figure 1 represents an oscillatory two-mass system while Figure 2 is the dynamic model of a two-axle vehicle. The "Elektron" analog computer and the "Minsk-2" digital computer were used for solving the following system of differential equations describing the oscillatory motion of an n-axle vehicle:

UDC: 629.113:629.11.012.5.001.5



ACC NR. AP7006716

 $\ddot{x} + \sum_{i=1}^{n} \beta_{i} (P_{i1} + P_{i2} + P_{i3}) = 0;$   $\ddot{y} + \sum_{i=1}^{n} \lambda_{i} (P_{i1} + P_{i2} + F_{i3}) = 0;$   $\ddot{y}_{i} - \gamma_{i} (F_{i1} + F_{i2} + P_{i3}) + F_{i4} + F_{i5} = 0,$ 

where  $i=1, 2, \ldots, n$  is the ordinal number of the axis (n=2) for a two-axle vehicle);  $f_{i1}$ ,  $f_{i2}$ ,  $f_{i3}$  are the characteristics of the elastic element, shock absorber and conventional "dry friction" unit;  $f_{i1}$ ,  $f_{i5}$  are the elastic and damping characteristics of the tire. The forms of the tire characteristics are shown in Figure 3. A dynamic model of the MAZ-500 truck was selected as the object for study. It was found that raising the damping coefficient of the tire increases additional power expenditures on vertical oscillations of the vehicle. Computation of the power dissipated by the vehicle. The resultant data may also be used for evaluating the thermal conditions of a tire. Orig. art. has: 5 figures.

SUB CODE: 13 / SUBM DATE: None

Card 3/3

SOV/137-57-6-9945

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 88 (USSR)

AUTHORS: Baranovskiy, M.A., Lozhechnikov, Ye.B.

TITLE: Effect of Speed on the Deep Drawing Process (Vliyaniye skorosti na

protsess glubokoy vytyazhki)

PERIODICAL: V sb.: Mashinostroitel' Belorussii. Nr 1 (2), Minsk, 1956, pp

43-46

ABSTRACT: An investigation is made of the effect of speed (S) upon the draw-

ing (D) process when the forces are brought to bear by impact. The material employed is Nr-10 steel, of 0.5, 1.0, and 1.5-mm thickness. The dies used are 10 to 100 mm in diameter. Curves showing the relationship of the reduction ratio to the die diameter at various deformation S are presented. A fixture for determination of DS is described. The reduction ratio is not dependent upon the S during a single pass. In subsequent operations, if large objects are to be drawn without a hold-down, high S may also be employed. The temperature to which the item is heated in high-speed D impairs the

conditions of lubrication and is inadequate to eliminate the work-

Card 1/1 hardening of items made of steel.

A.M.

SOV/137-57-10-19133

M.Ts.

Translation from. Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 100 (USSR)

AUTHOR:

Lozhechnikov, Ye.B.

TITLE:

Influence of Speed on Deep-drawing Process (Vlivaniye sko-

rosti na protsess glubokov vytyazhki)

PERIODICAL:

Sb. stud. nauchn. rabot. Belorussk. politekhn. in-t, 1957,

Nr 3, pp 9-10

ABSTRACT:

Drawing without a hold-down is performed on a vertical impact-testing machine with a maximum rate of motion of 7.65 m/sec, and on an IZh-50 hydraulic press at the usual speeds. An increase in speed during the first pass has a very negligible effect upon the reduction ratio. A point of inflection is found on the graph of reduction ratio versus die diameter showing the conditions under which the use of a hold-down is

necessary.

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SOV/137-57-11-21347

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 101 (USSR)

AUTHOR: Lozhechnikov, Ye.B.

TITLE: An Investigation Into Certain Questions of Plastic Deformation

(Issledovaniye nekotorykh voprosov plasticheskoy deformatsii)

PERIODICAL: Sb. stud. nauchn. rabot. Belorussk. politekhn. in-t, 1957,

Nr 3, pp 17-19

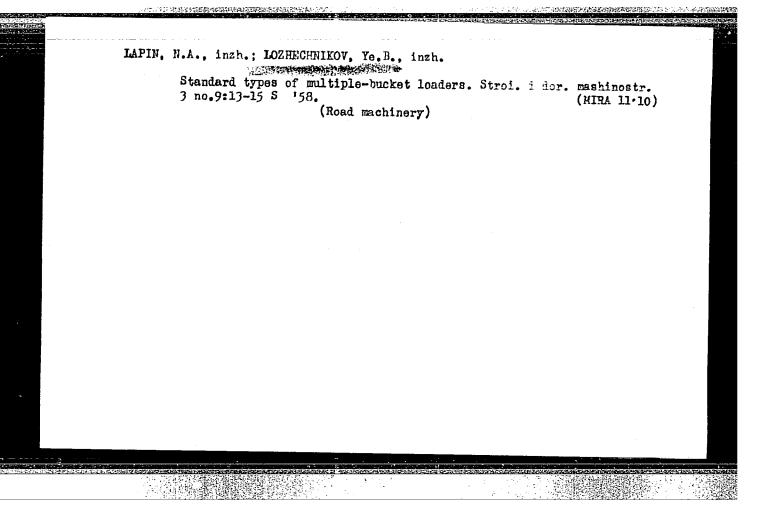
ABSTRACT: Experimentally determined relationships between unit pres-

sure in metal flow and the volumes of the specimens are adduced. These data may be employed in determining charac-

teristics required for deformation of equipment.

Ya.O.

Card 1/1



LOZHECHNIKOV, Ye.B., inzh.

The D-415 tractor-drawn multiple-bucket loader. Stroi. i dor.
mashinostroi. 4 no.3:17-18 Mr '59.
(Road machinery)

(MIRA 12:4)

Modern Foreign bucket loaders. Stroi. i dor.mashinostr. 4
no.6:38-39 Je '59. (MIRA 12:8)
(Earthmoving machinery)

LOZHECHNIKOV, Ye.B., inzh.

14(2),12(4)

807/100-59-5-8/14

AUTHOR:

Lozhechnikov, Ye.E., Engineer.

TITLE:

Self-Propelled Loaders

PERIODICAL:

Mekhanizatsiya stroitel'stva, 1959, Nr 5, pp 22-25 (USSR)

ABSTRACT:

The article gives a list of the existing types of single bucket selfpropelled loaders and a list of multi-bucket self-propelled loaders showing the technical characteristics of each type of loader. It further describes the latest types of loaders produced by the principal Soviet Plants: 1) Khar'kovskiy zavoi dorozinyki mashin (Khar'kov Road Building Machine Plant) starts serial production of the loading buildozer D-443 designed for taking 10 different types of mounted equipment. 2) Berdyanskiy zavod dorozhnykh mashin (Berdyanskiy Red Building Machine Plant) has completed tests of a single bucket tractor type loader D-451 (illustrated on front cover) which is a development of the D-380; it has the back axle of the chassis ZIL-150 with callcon tires 12-20; the front axle is from the chassis ZTL-151; the gear box is from the chassis GAZ-51 and the cardan shafts from the chassis GAZ-51 and ZII-150. The loader D-451 can take 13 different types of mounted equipment including 3 different sizes of buckets. 3) Bryanskiy zavod domozimykh mashin (Bryansk Road Building Machine Plant) has started producing self-propelled

Card 1/2

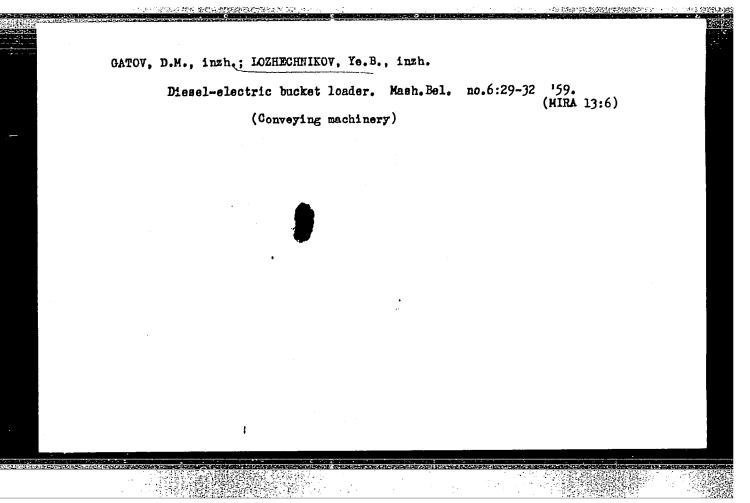
Self-Propelled Loaders

3N/100-59-5-8/14

multi-bucket loading tractor D-415 with mixing machine D-370 and drying drum D-381. The D-415 is designed in such a way as to be able to push mixer and drum in front of it; the leading tractor is a development of loader D-371 being equipped with a Diesel engine. As a distinctive feature of the D-415 should be considered the floating construction of the elevator on the chassis, which adjusts itself to the profile of the ground independently of the position of the chassis. 4) Minskiy zavod "Udarnik" (Minsk Plant Udarnik) turns out a multi-bucket loader mounted on the chassis T-166M, which is intended chiefly for unleading RR platforms: it is equipped with a worm feeder, a bucket elevator and a revolving belt conveyor. The T-166M has front and rear wheel drive. A new type now being designed will be the D-452 which is a development of the D-451. The Plant turned out experimental models of type D-353 which is similar to the T-166M, but equipped with Diesel electric drive.

There are: 4 photos, 2 tables and 2 Soviet references.

Card 2/2



VOICHEK, Ya.A.; LOZHECHNIKOV, Ye.B.; BERNSHTEYN, M.D.; BAZANOV, A.F., kand. tekhn. nauk, retsensent; OTDEL'NOV, P.V., red. izd-va; GORDEYEVA, L.F., tekhm. red.

[Automotive loaders] Samokhodnye pogruzchiki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1963. 242 p. (MIRA 16:6)

(Loading and unloading-Equipment and supplies)

S/250/63/007/001/004/005 A006/A101

AUTHORS:

Severdenko, V. P., Lozhechnikov, Ye. B.

TITLE:

Distribution of specific pressure over the grip arc in rolling

iron powder strips

PERIODICAL: Doklady Akademii nauk BSSR, v. 7, no. 1, 1963, 27 - 29

TEXT: If the distribution of specific pressure on the rolls over the grip arc is known, the resultant of metal pressure on the rolls and its location can be determined. These factors are required to calculate the working stand, the transmission and power of a rolling mill drive. Iron powder strips were rolled on a special rolling mill with 180 mm diameter rolls. The roll barrel was 180 mm long. The metor power was 13 kw. The rolling speed was 0.055 m/sec. A special roll with an incorporated dynamometer was used to determine directly the distribution of specific pressure. The EM(BM) powder employed was additionally reduced at 800°C, in dissociated ammonia atmosphere. The powder was rolled to 0.8 - 1.47 thick, 90 mm wide strips of 6.3 to 4.5 g/cm³ density. The pressure of the powder on the rolls was non-uniform. Initially pressure increased smoothly

Card 1/2

n 1

Distribution of specific pressure over...

S/250/63/007/001/004/005 r A006/A101

from zero to a given value, and rese then to a maximum. The drop of pressure from the maximum to zero was even more abrupt over an arc corresponding to angles  $1^{\circ}20^{\circ}-2^{\circ}30^{\circ}$ . Comparison tests show that in rolling iron powder to 0.8-1.47 mm thick strips, the maximum specific pressure over the grip arc is 20-25% below that of strips pressed to analogous density. There are 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN BSSR (Physical Engineering Institute of AS BSSR)

SUBMITTED: October 16, 1962

Card 2/2

## "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000930620015-5

EWP(k)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pf-4

s/250/63/007/004/005

Severdenko, V. and Lozhechnikov, Ye

TITLE:

Forward slip in rolling powdered-metal strip

no. 4, 1963, 244-246 PERIODICAL: Akademiya Nauk BSSR. Doklady.

TEXT: Forward slip in the rolling of powdered-metal strip was investigated on a special rolling mill with rolls with diameter of 120, 150, and 180 mm, of 40KhN steel. The powders, of PZh4MZ iron and PM-2 opper, were rolled into strips 90 mm wide. Investigations revealed that in such cases forward slip depends on the density of the strip, increasing as it increases. Similarly, as the roll diameter increases, forward slip increases. In cases where powdered-metal strip is rolled with one roll working and the other idle, forward slip differs for the working and idle rolls. The authors experiments revealed that forward slip for the working roll, when rolling an iron-powder strip increases from 0.43% for strip density of 5.5--6.5 g/cm<sup>2</sup> to 1% for strip density of 7--7.2 g/cm3, for the working roll. The corresponding figures for the idle roll are from 1.5 to 5.7%, respectively. When rolling copper-powder strip, however, the forward slip for the working roll changed from 0.01 to 0.02%, and for the idle roll, from 0.75 to 1.57%.

Card 1/2

L 16612-63

8/250/63/007/004/005/005

Forward slip in rolling ...

The higher forward slip in the idle roll is due to the fact that the rolled metal rotates the roll by friction forces. There are 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN BSSR (Engineering-Physics Institute,

Academy of Sciences, Belorusskaya SSR)

SUBMITTED: February 27, 1963

Card 2/2

LOZHECHNIKOV, Yevgeniy Borisovich, kand. tekhn. nauk; NEKHAY, V.T., red.

[Production and use of ceramic metal articles in the manufacture of machinery; methodological instructions and lectures on the course "Processing and use of new materials in the manufacture of machinery" (topic no.1)] Proizvodstvo i primenenie metallokeramicheskikh izdelii v mashinostroenii; metodicheskie ukazaniia i lektsii po kursu "Obrabotka i primenenie novykh materialov v mashinostroenii" (tema I). Minsk, Izd-vo "Vysshaia shkola," 1964. 55 p. (MIRA 17:12)

SEVERDENKO, V.P.; LOZHECHNIKOV, Ye.B.

Energy in the rolling of a powder metal strip. Bokl. AN SSSR 7 no.11:775-778 N 163. (MIRA 17:9)

1. Fiziko-tekhnicheskiy institut AM ROSh i Belorusskiy politekhnicheskiy institut.

AUCESSION NR: AP4049078 5/0136/64/000/011/0088/0090

Allook: Severdenko, V. P.; Lozhechnikov, Ye, B.; Shelamov, V. A.

TITLE: Rolling SAP foil directly from powder

SOURCE: Tsvetny\*ye metally\*, no. 11, 1964, 88-90

TOPIC TAGS: aluminum powder, APS-1 sluminum powder, SAP strip, SAP foil, SAP strip rolling, SAP foil rolling, optimum rolling technology

ABSTRACT: Two variants of making SAP strip and foil directly from aluminum powder have been tried. In the first variant, green strip was rolled with the powder and rolls at room temperature. The highest density of green strip (2.35 g/cm³) with no breaks or cracks was a achieved by rolling at a speed of 0.055 m/sec and a gap between rolls (the strip thickness) of 2.3 mm. In the second variant, the powder was preheated to 450—500C, and the rolls and bunker were kept at 100C. High-quality strip with a density of 2.4 g/cm³ was produced at a rolling speed of 0.023 m/sec. Hot-rolled and cold-rolled strips were rolled into foil, up to 150 w thick, with a 10% max reduction per pass and with process annealing at 450C after each pass. The foil

Card 1/2

1 19620-65 ACCESSION NR: AP4049078

had a density of 2.8—2.9 g/cm<sup>2</sup> and a tensile strength of 5 kg/mm<sup>2</sup> at 500C. Annealing of the strip at 600C for 3 hr before final rolling reased the tensile strength of the foil to 4 kg/mm<sup>2</sup>, but eliminated this tering and flaking which otherwise would occur in high-temperature inhealing. Annealing at 600C for 3 hr caused recrystallization in the foil and a further decrease in tensile strength to 3 kg/mm<sup>2</sup>. The technology recommended for rolling APS-1 aluminum powder into SAP and to 150 u thick consists of cold or not rolling of powder into strips about 2.5 mm thick, annealing at 62.6 for 3 hr, and final hot rolling with a 10% max reduction per pass, with process annealing after each pass. Foil up to 100 mm wide and several meters long was

ASSOCIATION: none

SUBMITTED: 00

ENCL. 00

hade by the same technology, Friz. art. has: 3 figures.

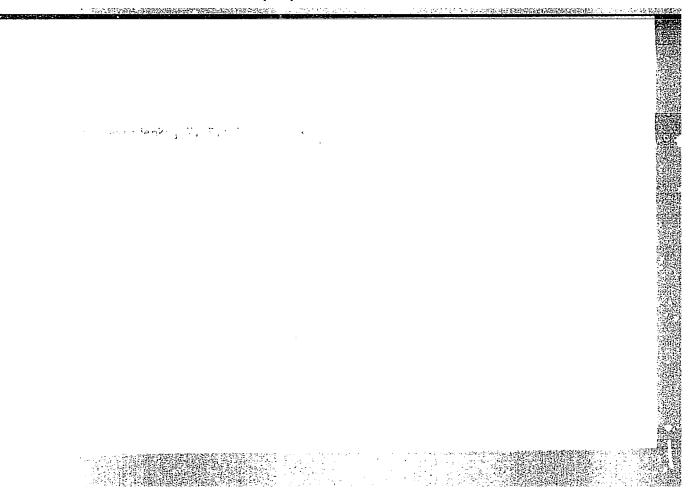
SUB CODE: MM

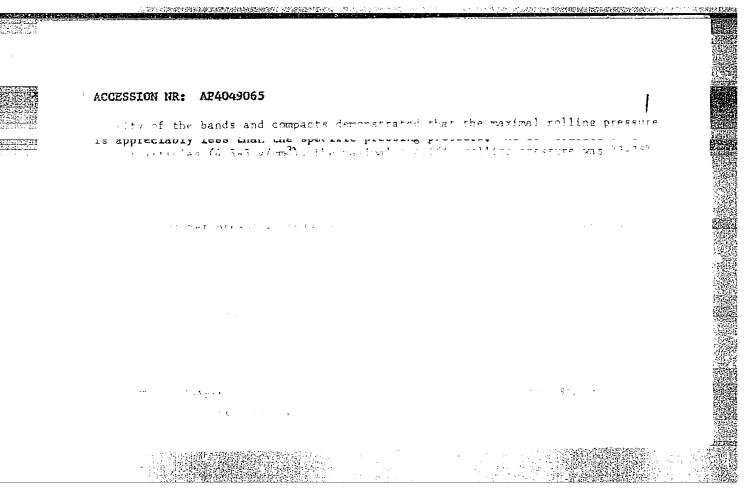
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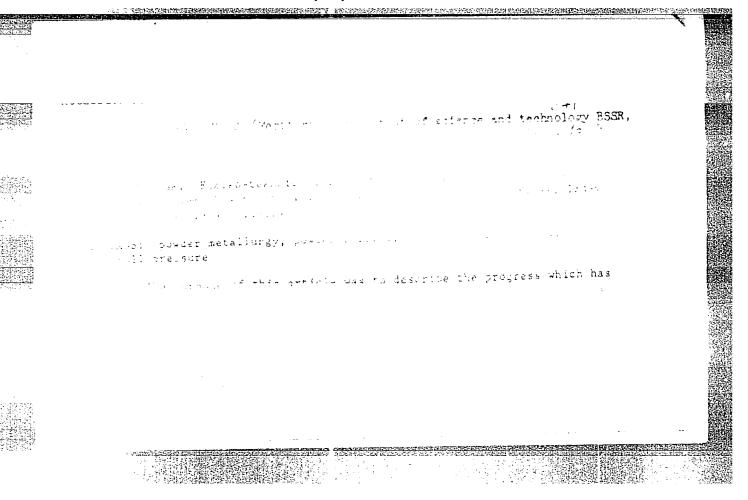
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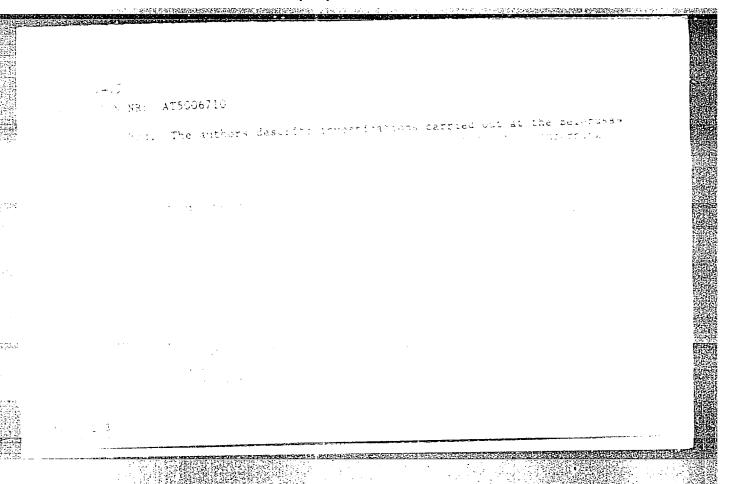
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LOGHERMANN, Yo.B., kand. tekhn. nauk

Galculating stresses on the running vart of multitucke
losders. Stroi. i dor. mash. 9 no.1:16-17 Ja \*64. (MIRA 18:7)

SMOLIKOVA, L. (Chekhoslovakiya); LOZIEK, Voyen [Lozhek, V.] (Chekhoslovakiya)

Stratigraphic and paleoclimatic significance of Quaternary fossil soils in Central Europe. Biul. Kom. chetw. per. no.30: 26-46 '65. (MIRA 19:2)

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; LOZHENITSYNA, A.S.; GAVRILOVSKAYA, A.A.

Synthesis of primary-tertiary acetylenic 8-glycols. Izv. AN SSSR. Ser. khim. no.4:709-712 '65. (MIRA 18:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

9,9700

S/169/62/000/009/049/120 D228/D307

AUTHORS:

Van'yan, L. L., Morozova, G. M. and Lozhenitsyna, L.V.

TITLE:

Theoretical curves of the induced polarization method

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 9, 1962, 39, abstract 9A261 (Geologiya i geofizika, no. 10, 1961,

118-123)

TEXT: The induced polarization phenomenon is considered as a quasistatic process, describable by Laplace's equation. Electric dipoles, arising within a polarizing body under the action of the field current, are presumed to be the sources of the induced polarization's emf. When calculating theoretical curves, a change is made from the volume distribution of secondary dipoles to the surface distribution of charges. The main quantity studied in induced polarization vertical electric sounding is the apparent polarizability  $\eta_{\rm app}$ .  $\eta_{\rm app}$  is calculated on the basis of the formula given for its magnitude (which is correct when the polarizability values Card 1/2

1/0

Theoretical curves of ...

S/169/62/000/009/049/120 D228/D307

of separate beds are low); the calculation's basis is the expression of the subintegral function through hyperbolic cotangents. The theoretical curves of  $\eta_{\rm app}$ , computed from the derived formula, are compared with the corresponding curves of vertical electric sounding. It is noted that the curves of  $\eta_{\rm app}$  possess a high resolving power. /Abstracter's note: Complete translation. 7

Card 2/2

VAN'YAN, L.L.; MOROZGVA, G.M.; LOZHENITSYNA, L.V.

Frequency sounding above an anisotropic bed. Trudy Inst. geol.
1 geofiz. Sib. otd. AN SSSR no.39;68-75 '64. (MIRA 18:4)

VAN'YAN, L.I.; MOROZOVA, G.M.; LOZHENITSYNA, L.V.

Theoretical curves of the induced polarization method.
Geol.i geofiz. no.10:118-123 #61. (MIRA 14:12)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

(Polarization(Electricity))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930620015-5"

SHEREDEKO, V.M., inzh.; LOZHESHNIK, V.K., inzh.; ASKINAZI, Z.M., inzh.

Improved nethods of removing samples of oils and fats. Masl.-zhir. (HIRA 11:7) prom. 24 no. 6:41 158.

- Kuybyshevskiy zhirovoy kombinat(for Sheredeko, Lozheshnik).
   Leningradskiy zavod "Salolin" (for Askinazi).
   (0ils and fats)

LOZHESHNIK, V.K., inch.

Decodorizing whale fat before hydrogenation. Masl. - zhir. prom. 27 no.12:36 4 161. (MIRA 14:12)

1. Kuybyshevskiy zhirovoy kombinat. (Whale oil)

LOZHESHNIK, V.K., inzh.

Defattening of technical phosphatides in ISA-3 separators.

Masl.-zhir.prom. 28 no.9:36 S '62. (MIRA 15:9)

1. Kuybyshevskiy zhirovoy kombinat.

(Phosphatides)

GLADKAYA, V.F., inzh.; KOZHEVNIKOVA, I.M., inzh.; LOZHESHNIK, V.K., inzh.; KAPLUNOV, S.Z., inzh.

Processing of whale oil. Masl.-zhir.prom. 29 no.11:43-46 N '63. (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut maslozhirovoy promyshlennosti (for Gladkaya, Kozhevnikova). 2. Kuybyshevskiy zhirovoy kombinat (for Lozheshnik). 3. Kitoboynaya flotiliya "Slava" (for Kaplunov).

22(3), 6(1)

SOV/178-58-7-7/24

AUTHORS:

Lozhko, K., Guards Colonel; Komarov, P., Guards Lieutenant

Colonel; Lozhichevskiy, A., Guards Major

TITLE:

The Radio Training (Area) is the Foundation of the Training-

Material Basis (Radiopoligon - osnova uchebno-material'noy

bazy)

PERIODICAL:

Voyennyy svyazist, 1958, Nr 7, pp 20 - 24 (USSR)

ABSTRACT:

The authors describe the equipment and operating procedures of a radio training (area) located about 10 km from the permanent quarters of a Signal Corps unit of the Soviet Army. The radio stations used for training are operated from shelters and trenches. The training ground is operated from a central control point from which all radio stations receive instructions. The switchboard used for this purpose is shown in Figure 1 and its circuit arrangement in Figure 2. For creating combat-like conditions, a jamming transmitter is used, consisting of a SO-241

Card 1/2

SOV/178-58-7-7/24

The Radio Training (Area) is the Foundation of the Training-Material Basis

Level on its statistical desirable and the free faction of the second of

master oscillator, a SO-257 power amplifier and a SO-257 modulator. The soldiers undergoing training are billeted at the training ground. Class-rooms for theoretical instructions are also available. There are 2 photographs and 2 circuit diagrams.

Card 2/2

LOZHICHEVSKI, A. A.

The planning and preparation of metal molds Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-r. 1951. 241 p. (52-19098)

TS240.L7

LOZHICHEVSKIY, A. S.

Metallicheskie modeli. Moskva, Mashgiz, 1949. 293 p. diagrs.

Bibliography: p. 292.

Metallic patterns.

DLC: TS240.L69

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

LOZHICHEVSKIY, A. S. and M. E. ERSHOV.

Proektirovanie i izgotovlenie metallicheskikh form. Moskva, Mashgiz, 1951. 241 p. diagrs.

Designing and manufacturing metallic molds.

DLC: TS240.L7

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

#### PHASE I BOOK EXPLOITATION

1026

#### Lozhichevskiy, Aleksey Simonovich

Metallicheskiye modeli; proyektirovaniye i izgotovleniye (Metal Patterns; Design and Fabrication) 2d ed., enl. Moscow, Mashgiz, 1958. 349 p. 6,000 copies printed.

Reviewer: Sergeyev, V.S., Engineer; Ed. of Publishing House: Sirotin, A.I., Engineer; Tech. Eds.: Gerasimova, Ye.S., and Uvarova, A.F.; Managing Ed. for literature on heavy machine building (Mashgiz): Golovin, S.Ya., Engineer.

PURPOSE: This book is intended for engineering and technical personnel in foundries and pattern shops as well as for students of teknikums and vtuzes.

COVERAGE: The book contains the fundamentals of design and manufacture of casting equipment. The engineering considerations for design and the special features of construction of various equipment are discussed. The organization, equipment and tools of pattern shops, the development of techniques, and the manufacture and putting into operation of casting accessories are also discussed. No personalities are mentioned. There are no references.

Card 1/4

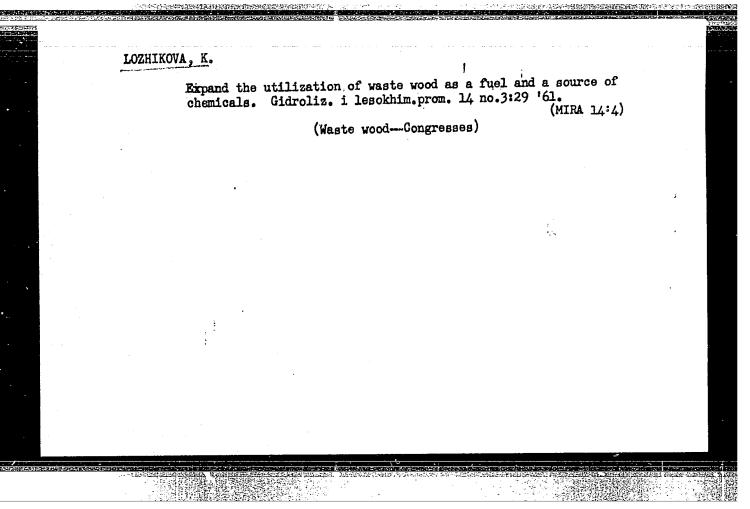
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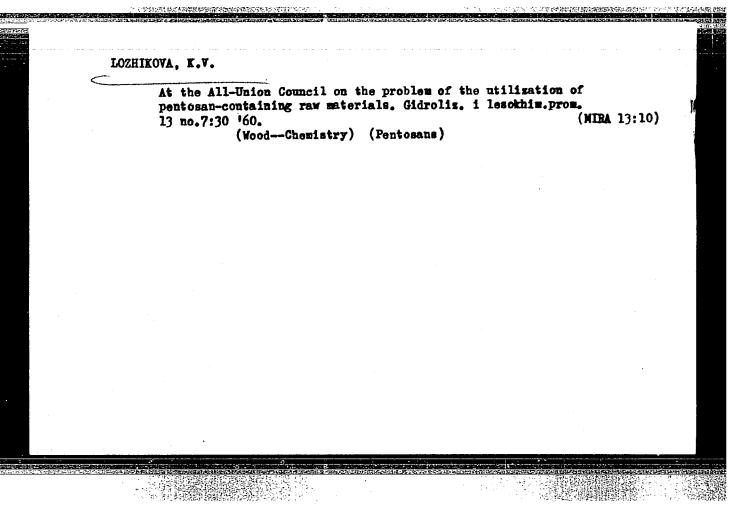
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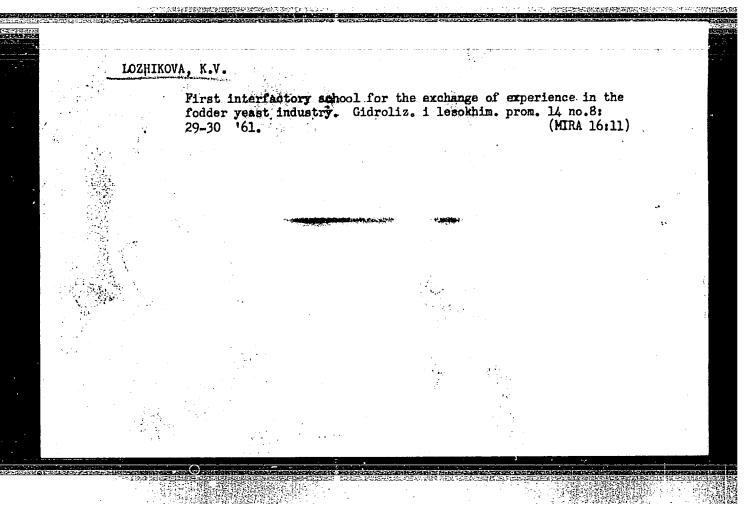
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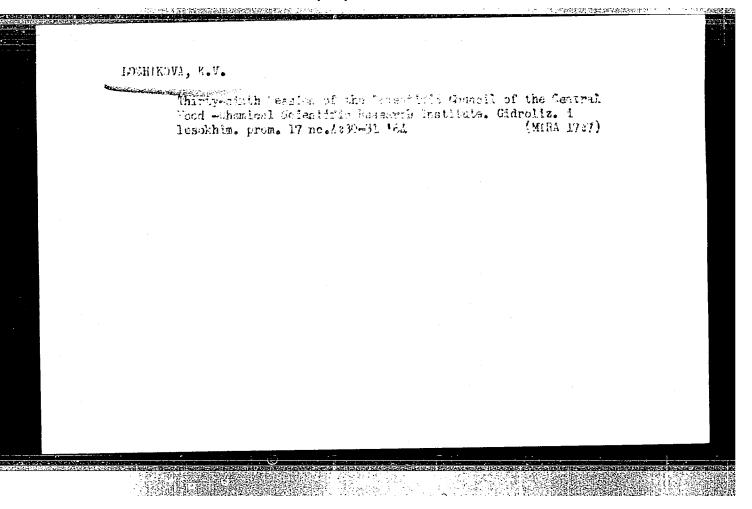
PETRUNIN, A.M.; LOKTIONOVA, N.A.; AL'TMAN, M.B., rukovoditel' raboty;
Prinimali uchastiye: LOZHICHEVSKIY, A.S.; SHKROB, V.A.; POSTNIKOV,
A.S.; ARBUZOV, B.A.; PANTYUSHKOVA, N.S.; POBOCHINA, T.V.;
PATRUSHEV, L.M.

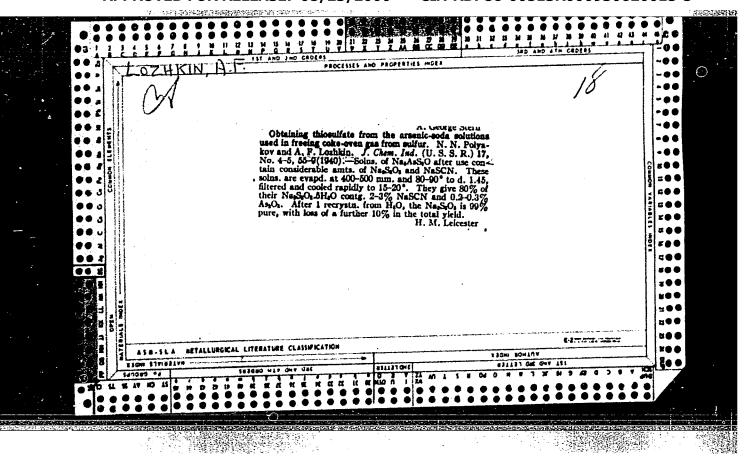
Mastering the production of large Al8 alloy castings. Alium. splavy no.1:150-159 '63. (MIRA 16:11)











SOY/156-58-2-45/48 AUTHORS: Lozhkin, A. F., Subocheva, N. L.

Reduction Burning of the Chiatury Manganese Ores by Means TITLE: of Gases (Vosstanovitel'nyy obzhig chiaturskoy margantsevoy

rudy s pomoshch'yu gazov)

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya PERIODICAL:

tekhnologiya, 1958, Nr 2, pp. 381 - 384 (USSR)

For the production of artificial manganese dioxide (iskusst-ABSTRACT:

vennaya dvuokis' margantsa = IDM) oxidized manganese ores are subjected to a reduction burning in periodically fed furnaces. Usually solid fuel (coke, coal) is used as reducing agent. The reduction of pyrolusite aims at the formation of compounds which are easily soluble in sulfuric acid. In order to intensify this phase of operation and to

establish a continuous process burning tests of the ore were carried out by means of solid fuel, hydrogen and generator

gas. The results may be of interest for plants disposing Table 1 shows the analysis of gas - reduction - apparates. of manganese ore of different fractions, figures 1-3 illustrate

the results of the burning tests. The data of figure 1 give Card 1/4

Reduction Burning of the Chiatury Manganese Ores by Means of Gases

SOV/156-58-2-45/48

evidence of the important role of the volatile coal components in the reduction process. At 500 - 600° a relatively calm precipitation of the volatile substances in a nitrogen atmosphere takes place. In this connection hydrogen, methane and other hydrocarbons have time enough to enter interaction with pyrolusite. Above 600° a violent precipitation of the volatile substances from the coal takes place. In some cases they have no time to enter the mentioned interaction. This fact probably explains the smaller degree of reduction in the range of from 600 - 800° (Fig 1). An increase of reduction in the range of from 800 - 1000° is explained by the acceleration of the reduction process. Figures 2 and 3 show that the degree of reduction caused by hydrogen increases with the increase of temperature, with the concentration of hydrogen and with the duration of the action. Table 2 shows results of experiments with ore picked out according to fractions graded with a 1 mm interval. They agree with the rules of diffusion kinetics. The following conclusions may be drawn from table 3: 1) At a temperature of 7000 in the reaction zone and in the case of a duration

Card 2/4

Reduction Burning of the Chiatury Manganese Ores by Means of Gases

SOV/156-58-2-45/48

of the processing of approximately 2 hours a small excess of the reducing gas guarantees a high degree of reduction of pyrolusite of the 1-2 mm fraction. The introduction of a burning process into a mobile layer under a counter flow of ore and gas makes possible to reduce the burning time by 3-4 times as compared to the periodical feeding of the furnace. It establishes favorable conditions for the mechanization and automation of this phase of operation. There are 4 figures, 3 tables, and 3 references, 2 of which are Soviet.

ASSOCIATION: Kafedra tekhnologii neorganicheskikh veshchestv Permskogo gosudarstvennogo universiteta (Chair for the Technology of Inorganic Substances of the Perm' State University)

SUBMITTED:

December 13, 1957

Card 3/4

CIA-RDP86-00513R000930620015-5" **APPROVED FOR RELEASE: 08/23/2000** 

Reduction Burning of the Chiatury Manganese Ores by SOV/156-58-2-45/48 Means of Gases

Card 4/4

5(1,2) AUTHORS:

Lozhkin, A. F., Subocheva, N. L.

SOV/153-2-4-32/32

TITLE:

Reducing Burning of Pyrolusite by Means of Gases in a Movable

Layer

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 4, pp 642 - 646 (USSR)

ABSTRACT:

The usual industrial method of the above mentioned burning of manganese ores in the production of synthetic manganese oxide shows considerable shortcomings. In order to intensify this process, this way of burning was investigated by means of hydrogen and generator gas as reducers in a stationary as well as in a movable layer. The gaseous phase is supposed to play an important role in this process according to P. V. Gel'd and O. A. Yesin (Refs 1,2). Reduction takes place without previous dissociation according to Ye. P. Tatiyevskaya, G. I. Chufarov, and V. K. Antonov (Refs 3,4). It is certain that the MnO2-reduction by means of CO or H2 proceeds quickly and completely between 527 and 700°. The reaction products CO2, H2O, and MnO are formed. The authors determined the reduction rate of

Card 1/3

manganese ore depending on the burning conditions in special

Reducing Burning of Pyrolusite by Means of Gases in a Movable Layer

SOV/153-2-4-32/32

experiments. Table 1 shows the technical analysis of the ore of Chiatura, table 2 shows the reduction results according to layers. It can be concluded from table 2 that the increase of the linear gas speed from 0.7 to 4.2 m/min causes no noticeable variation of the reduction degree in the first layers. The reduction rate of pyrolusite, however, increases considerably with the linear acceleration of the gas current. This can be used for increasing the capacity of the apparatus (Fig 1). It may be assumed that under stationary conditions the layer extension with a constant reducing degree is numerically equal to the rate of ore advance in a movable layer. If a direct dependence of the height of a layer with a prescribed reduction degree on the burning time is assumed, the shifting rate of this layer can be determined from the relation

 $U=\frac{H}{\tau}$  (4); U= height of an immovable layer in cm,  $\tau=$  burning time in minutes. In order to examine these data, a device (Fig 2) was set up by which corresponding results could be obtained (5), (6). Table 3 shows results of similar experi-

Card 2/3

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Reducing Burning of Pyrolusite by Means of Gases in a Movable Layer

SOV/153-2-4-32/32

ments with generator gas. Hence it may be concluded that the reduction degree of pyrolusite increases with an increase in the coefficient of gas supply (6) (Experiments 1-3). In order to attain a degree of 90-95% of the reduction, a small excess of reducing gas is necessary as compared with the stoichiometrical one. It can be maintained that the reduction period with this method takes only 1/3 to 1/4 of the time used in a hearth furnace with solid fuel as reducing substance. Intensification of the usual process and establishment of favorable conditions for its mechanization and automation are rendered possible by the method suggested. L. S. Buloshnikov and M. I. Yakovleva cooperated in the experiments. There are 2 figures, 3 tables, and 7 Soviet references.

ASSOCIATION: Permskiy gosudarstvennyy universitet; Kafedra tekhnologii neorganicheskikh veshchestv (Perm' State University; Chair of Technology of Inorganic Substances)

SUBMITTED:

March 25, 1958

Card 3/3

LOZHKIN, A.F.; PECHKOVSKIY, V.V.; SUBOCHEVA, N.L.

Effect of additives of some potassium compounds on the reduction process of barites. Uch. zap. Perm. gos. un. 17 no.1:55-60 '60. (MIRA 14:11)

(Barite) (Potassium compounds)

LOZHKIN, A.F.; SYCHEVA, T.V.; SUMENKOV, V.G.

Reducing firing of natural pyrolusite in a tubular revolving furnace. Uch. zap. Perm. gos. un. 17 no.1:97-102 '60.

(MIRA 14:11)

(Pyrolusite)

LOZHKIN, A.F.; PECHKOVSKIY, V.V.; SUBOCHEVA, N.L.

Formation of acid-soluble barium compounds in the reduction roasting of barite. Izv. vys. ucheb. zav.; khim. i khim. tekh. 4 no. 2:242-246 161. (MIRA 14:5)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo. Kafedra tekhnologii neorganicheskikh veshchestv. (Barium salts) (Barite)

Reduction firing of gramulated barite concentrates. Izv.vys. ucheb.zav; khim.i khim.tekh. 4 no.5:832-836 '61. (MIRA 14:11)

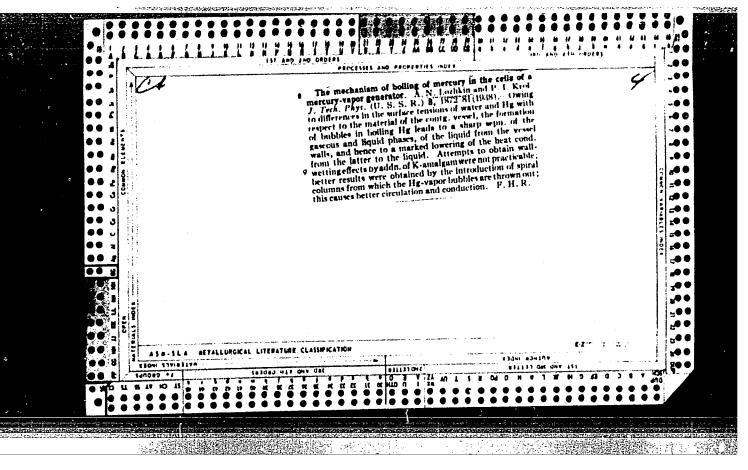
1. Permskiy gosudarstvennyy universitet, kafedra tekhnologii neorganicheskikh veshchestv.

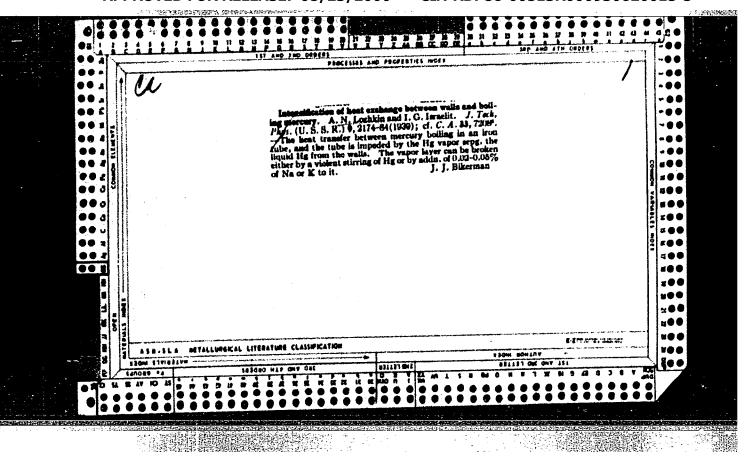
(Barite)

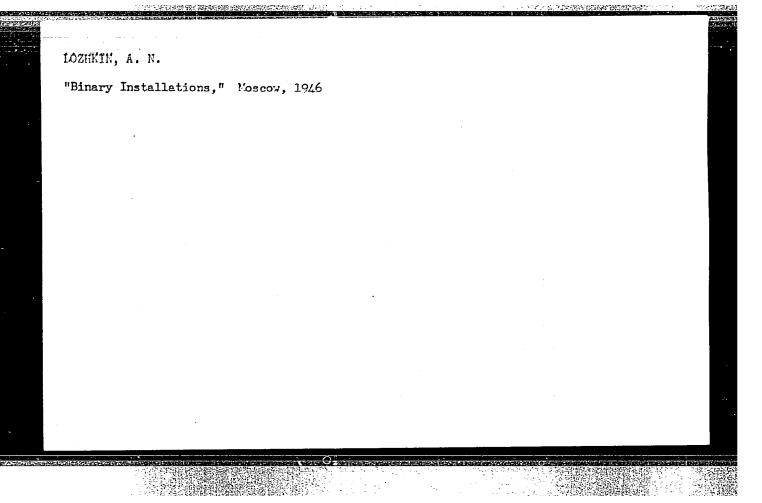
HUZMKIM, A. I., Doctor of Tech. Sci. of the Central Boiler Turbine inst.

"With the Increased Importance of Gas as a Power Fuel It was Becoming Possible to Construct Heat and Electric Power-Stations with Combined Steam/Gas Installations and That by Using the Steam/Gas Cycle the Amount of Electricity Generated in Connection with Heat Supply Could be Increased by 30 - 50%."

All-Union Conference on the Future Development of District Heating in the USSR, 11-13 July 1958, Moscow. (Teploenergetika, 1958, No. 11, pp. 90-92)





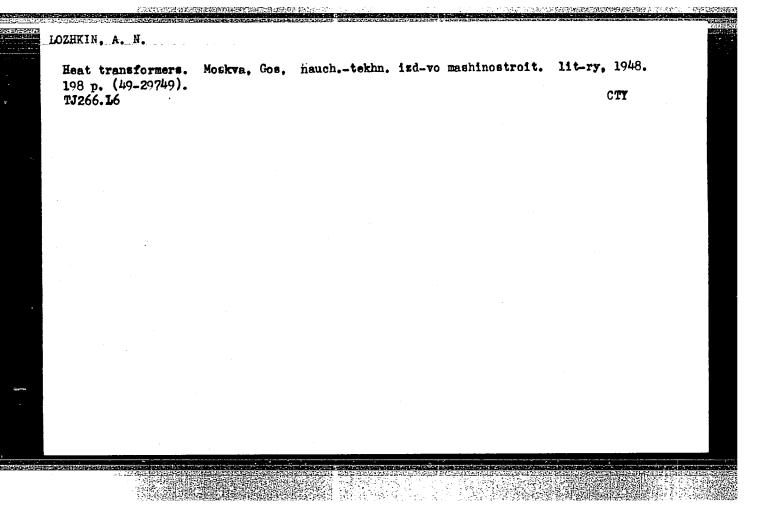


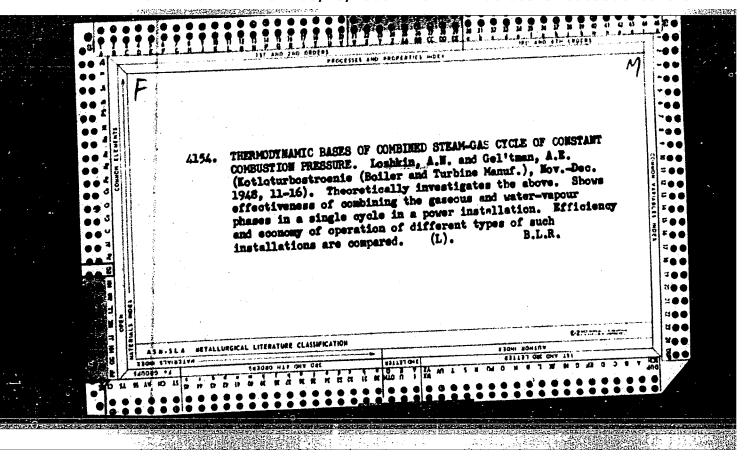
Binary vapor installational working process and construction of the equipment.

Woskva, Gos. nauch.-tekhn, izd-vo mashi-nostroit. lit-ry, 1946. 282 p.
(49-2259)

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930620015-5"





KORNEYEV, M.I., kand.tekhn.nauk; SAZONOV, N.I., kand.tekhn.nauk; LOZHKIH. N., doktor tekhn.nauk, red.; GONCHAROV, N.G., tekhn.red.

[Steam-gas power plants and prospects for their adoption into Soviet power engineering] Parogazovye energoustanovki i perspektivy ikh vnedreniia v energetiku SSSR. Pod red. A.N. Lozhkina. Moskva, Gos.nauchno-tekhn.komitet Soveta Ministrov SSSR, 1959. 45 p. (MIRA 12:12) (Electric power plants)

LOZHKIN, A.N., doktor tekhn.nauk, prof.; ZELENIN, V.M., kand.tekhn.nauk

Using nonjustable steam extraction in small and medium-sized turbimes for district heating purposes. Energomeshinostroenie 6 no.5:14-17 My \*60. (MIRA 13:9)

(Steam turbines) (Heating from central stations)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000930620015-5"

ANDRYUSHCHENKO, Anatoliy Ivanovich; LAPSHOV, Vitaliy Nikolayevich; LOZHKIN, A.N., prof., doktor tekhn. nauk, retsenzent; OLYKHOVSKIY, G.G., red.

[Steam-gas systems of electric power plants; thermodynamic and technical economic analysis of operating cycles and thermal networks] Parogazovye ustanovki elektrostantsii; termodinamicheskii i tekhniko-ekonomicheskii analizy tsiklov i teplovykh skhem. Moskva, Energiia, 1965. 246 p. (MIRA 18:3)

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000930620015-5

L 07349-67 ACC NR. AP6012164

(A)

SOURCE CODE: UR/0413/66/000/007/0088/0088

AUTHORS: Lozhkin, A. N.; Petrichenko, R. M.

51 B

ORG: none

TITLE: An assembly for utilizing the exhaust heat of an internal combustion engine. Class 46, No. 180433

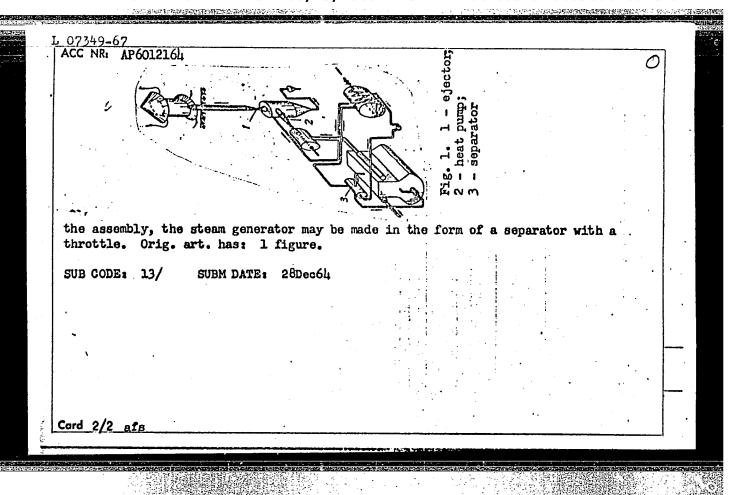
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 88

TOPIC TAGS: heat transfer in rarefied gas, aerodynamic heat transfer, heat exchanger, heat energy conversion, heat effect

ABSTRACT: This Author Certificate presents an assembly for utilizing the exhaust heat of an internal combustion engine. The assembly contains a steam generator placed in the stream of exhaust gases and in the water cooling circuit of the engine, and an ejector absorbing the gases from the engine through the steam generator by using the steam produced in the generator. To increase the power and improve the economic efficiency of the engine, a heat pump is placed in the stream of the exhaust gases between the steam generator and the ejector. It converts the heat energy of the gas into pressure energy for increasing the compression behind the ejector and for lowering the pressure in the exhaust pipe of the engine. To decrease the size of

Card 1/2

UDC: 621.43.068.1



ACC NR. AP7002599

(A, N)

SOURCE CODE: UR/0413/66/000/023/0107/0108

INVENTORS: Lozhkin, A. N.; Petrichenko, R. M.

ORG: none

TITLE: An assembly for supercharging a diesel engine. Class 46, No. 189248

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 107-

108

TOPIC TAGS: diesel engine, supercharged engine, supercharger, turbine

ABSTRACT: This Author Certificate presents an assembly for supercharging a diesel engine. The assembly contains a turbine keyed to the exhaust collector for driving an air compressor which feeds air to the engine cylinders (see Fig. 1). To increase the operating economy, a vapor separator is installed in the engine cooling system converted to provide an open high-temperature cooling. This separator feeds the vapor to the exhaust collector so as to produce a vapor-gas mixture feeding the turbine. A reducer may be placed between the turbine and the engine. This reducer has a variable transmission ratio and changes the turbine rpm according to the load on the engine. The assembly may be provided with a regulator for optimal operation. This regulator changes the transmission ratio of the reducer according to the fuel and power consumption.

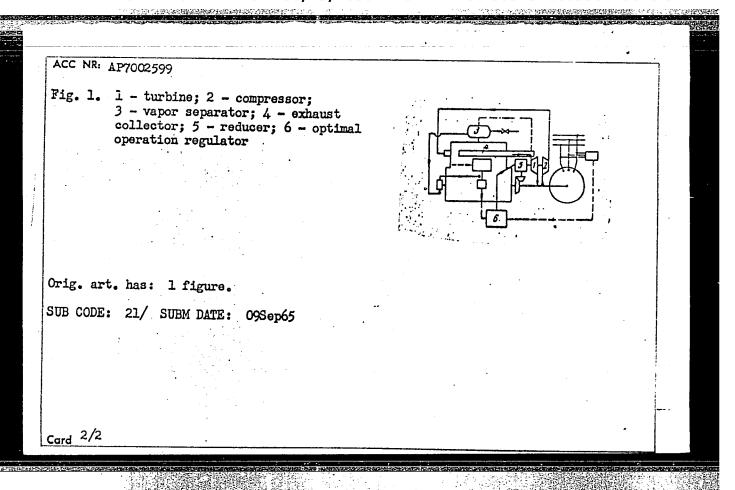
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LOZHKIN, A.V.

History of the development of relief and the age of alluvial sediments in the Promezhutochnyi Creek basin (Indigirka River system.) Trudy SVKNII no.3:37-52 163. (MIRA 17:11)