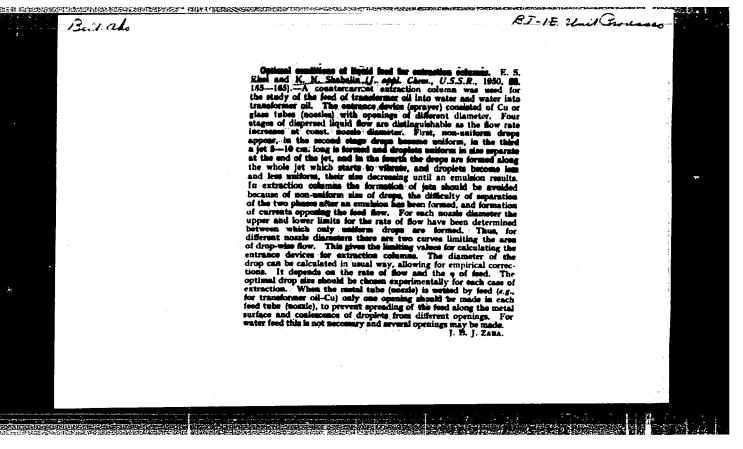
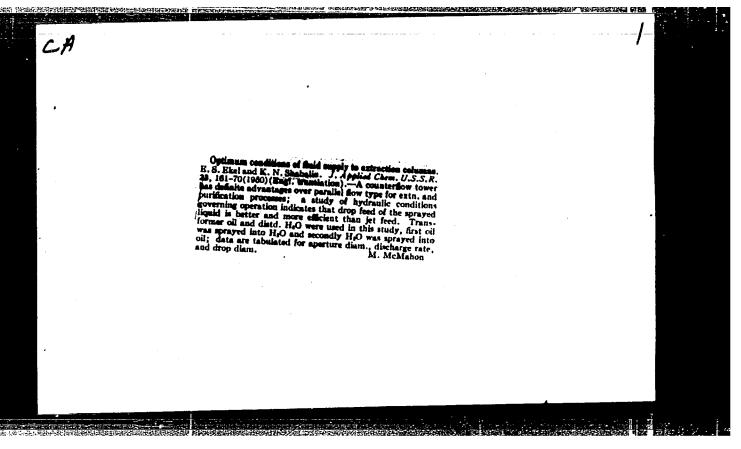


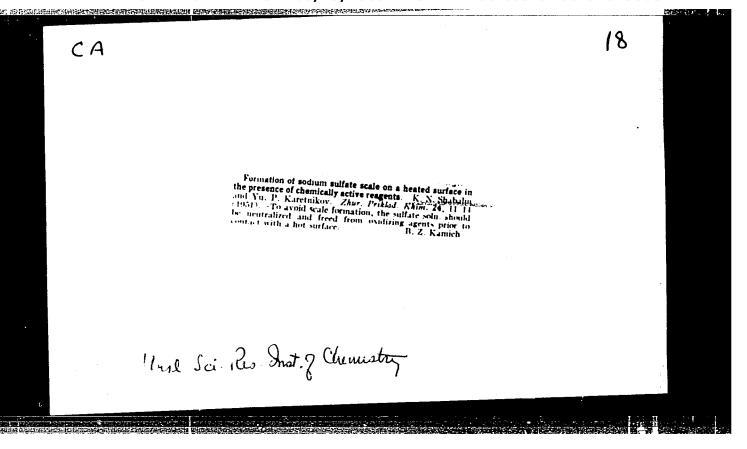
AVERBURH, Ya.D., kandidat tekhnicheskikh mauk; SHABALIN, K.N., professor tekhnicheskikh nauk

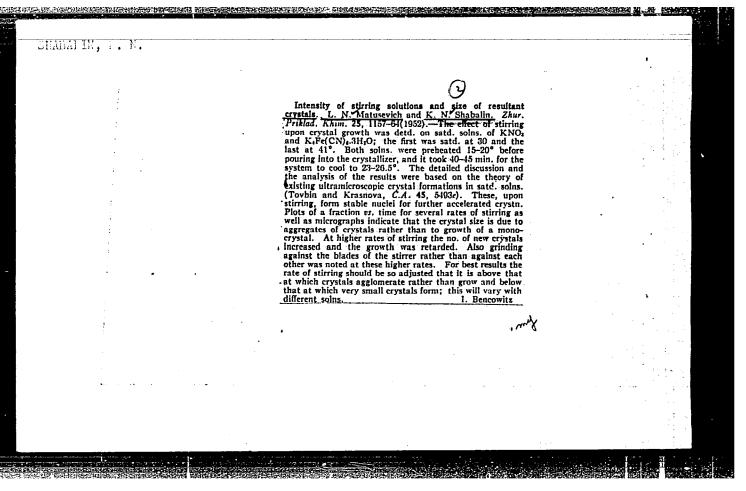
Dust retention on the deposition surface in gas purification. Khim. prom.no.10:290-292 0'47.

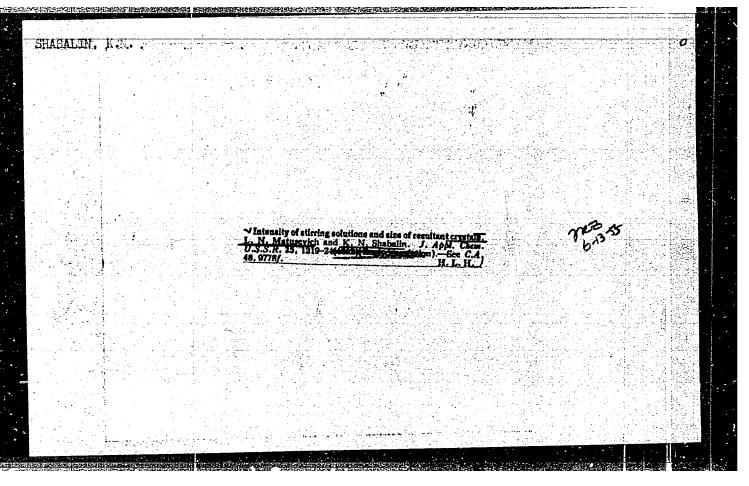
1. Ural'skiy industrial'nyy institut (Scrubber (Chemical technology))

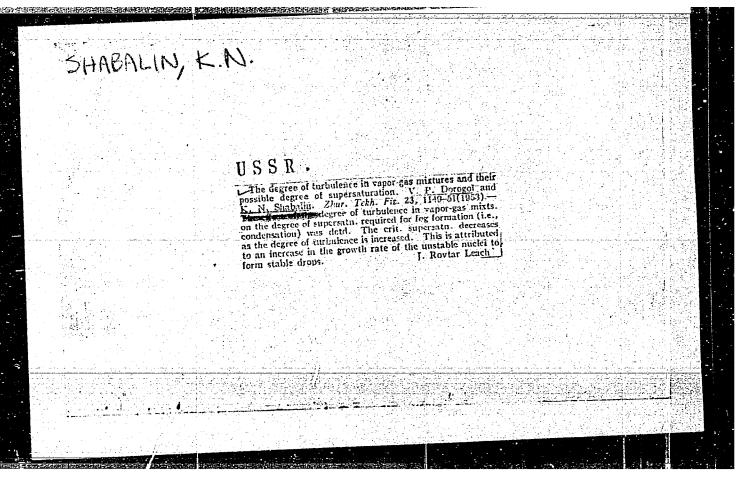


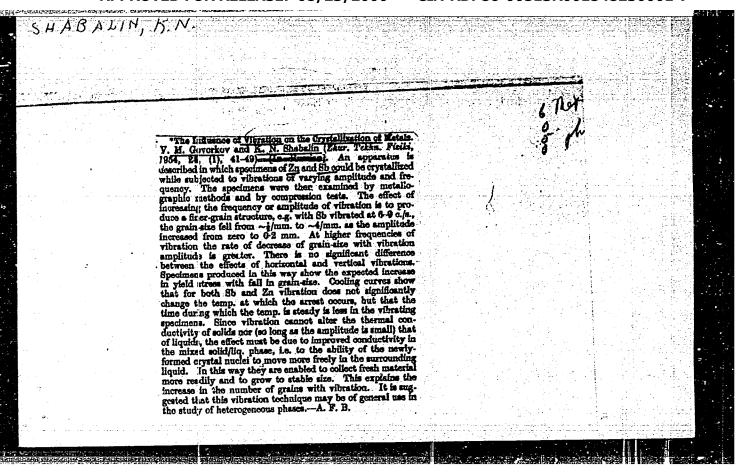


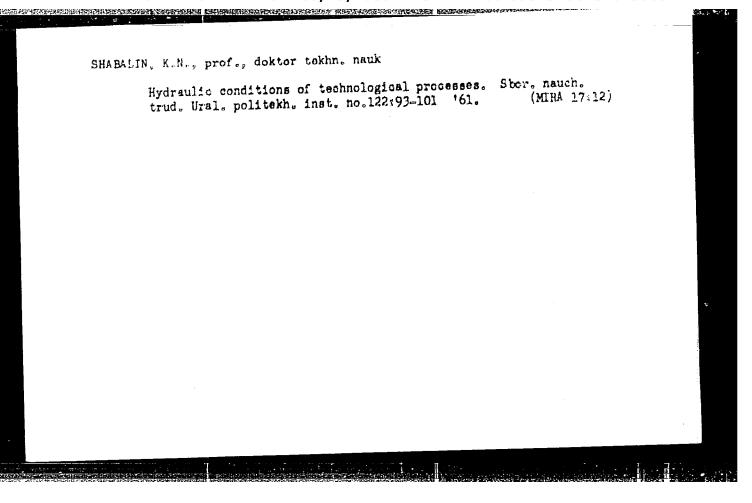












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AUTHORS:

Sharnin, A. A., and Shabalin, K. N.

Anodic passivation of steel in concentrated lyes by the

TITLE:

current of the galvanic pair Fe-Ni

Zhurnal fizicheskoy khimii, v. 36, no. 1, 1962, 209 - 213

TEXT: This is a study of the protective effect of Ni coatings or Ni inclusions in nickel steels against the corrosion of steel in strong lyes. Circular Ni coatings (diameter 5, 8, 10, 15, 30 mm; thickness $40 - 50\mu$) were electrodeposited on plates of electrolytically pure iron (electrolyte: 200 g/liter NiSO4"7 H2O, 3 g/l NaCl, 25 g/l HBC3, 25 g/l Na2SO4; current density 0.8 a/dm2; duration 4 hrs) and exposed to NaOH in an autoclave, density 0.8 a/dm2; duration 4 hrs) and exposed to NaOH in an autoclave, density 0.8 a/dm2; duration 4 hrs) and exposed to NaOH in an autoclave, with the sample rotating continuously at 30 - 150 rpm. Temperature 140 duration of experiment 0.3 - 12 hrs. The lye concentration was varied between 200 and 400 g/l Na20. Around the edge of the Ni circle, a circular iron oxide film is formed, which protects the Fe against further corrosion. The film reaches its greatest width after 4 hrs. The investigation was Card 1/2

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Anodic passivation of steel...

conducted with an MMM-8 (MIM-8) microscope. The size of the film increases with the radius of the Ni coating (cathode), but decreases with increasing lye concentration and with increased speed of the sample. With an Ni coating of 15 mm diameter and a lye concentration of 300 g/l $\rm Na_2O$, the

oxide ring is 0.05 mm wide. Its theoretical width is 0.06 mm. V. V. Losev, B. N. Kabanov, V. G. Levich, A. N. Frumkin, P. D. Lukovtsev, S. D. Levina, Z. A. Iofa, and K. G. Potaskuyev are mentioned. There are 6 figures, 1 table, and 8 Soviet references.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural

Polytechnic Institute imeni S. M. Kirov)

SUBMITTED: July 21, 1960

Card 2/2

SHARNIN, A.A.; SHABALIN, K.N.

Anodic passivation of steel in concentrated alkalies by the current of the Fe. Ni galvanic couple. Zhur. fiz. khim. 36 (MIRA 16:8) no.1:209-213 Ja '62.

1. Ural'skiy politeknnicheskiy institut in. Kirova. (Steel, Galvanized) (Electrodes, Nickel)

GOVERKOV, V.M.; SHABALIN, K.N.

Effect of vibration on gas evolution from the liquid phase. Inzh.-fiz. zhur. 7 no.2:15-20 F '64. (MIRA 17:2)

1. Ural'skiv politekhnicheskiy institut imeni S.M.Kirova, Sverdlovsk.

Bubbli, H.B.: SBABALIS, K.N.

Iffact of the hydrophobleity imparting agent (tempertine) on the fill-mation of quartz. Izv. vys. ucheb. zav.; khim. ! kkim. tekh.

? ne.4:675-677 '64. (NHZ 17:12)

1. buffelra protacesov l'apparatov Ural'shogo politekarlehenkego instituta im. S.M. Kirova.

ACCESSION NR: AP4025003

S/0070/64/009/002/0306/0307

AUTHORS: Inyushkin, G. V.; Shabalin, K. N.

TITLE: The effect of crystal rotation velocity on its growth

SOURCE: Kristallografiya, v. 9, no. 2, 1964, 306-307

DOWNERS OF THE PROPERTY IN THE PROPERTY OF THE

TOPIC TAGS: salt crystal, NH_LH₂PO_L, K_LFe(CN)₆•3H₂O, NaNO₃, crystal growth, crystal movement in solution, rotation effect, parasite crystal, maximum crystal growth

ABSTRACT: The velocity of a crystal motion in a solution is known to affect crystal growth in general and to impede the development of certain crystal faces. A brief summary of the results obtained in investigations of the crystal rotation effect on the growth of monocrystals is presented here. The study involved NH₄ PO₄, K₄ Fe(CN)₆·3H₂O, and NaNO₃ solutions. Original crystals were grown to 18-20 mm at rest, and their subsequent growth was continued during their rotation at various velocities while the solution temperature was gradually lowered. Data derived from these experiments proved the existence of maximum crystal growing Card 1/2

ACCESSION NR: AP4025003

rotational velocities which differ for the crystals of different salts. The authors explain the appearance of the "parasite" crystals and the difference in the crystal growth maxima for various substances by the development of semi-ordered layers on the crystal surfaces, which foster the formation of the molecular groups and their transformation into the more complete crystalline forms. These blocks tend to detach themselves from the surface layers under the action of hydraulic and centrifugal forces. They continue their growth whils floating and become the nuclei of the parasite crystals. At moderate rotation velocities the speed of the diffusion growth of the surface layer prevails over the rate of the block detachment. This activity proceeds up to a certain maximum rotation velocity, above which the reverse action takes place, and the rate of crystal growth begins to decline. "The authors express their gratitude to L. N. Matusevich for his valuable advice." Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 17Apr63

DATE ACQ: 16Apr64

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NO REF SOV: 005

OTHER: OOL

Card 2/2

NATURAL PROGRAMMENTAL PROGRAMMENT OF THE PROGRAMMEN L 6762-65 EWT(m)/EWP(q)/EWP(b) ASD(f)/AFMDC/ASD(m)-3 ACCESSION NR: AP4045409 \$/0136/64/000/009/0060/0064 AUTHOR: Sharnin, A. A.; Shabalin, K. H. Corrosion/of carbon and stainless steel, in boiling alkaline solutions SOURCE: Tsvetny*ye metally*, no. 9, 1964, 60-64 TOPIC TAGS: carbon steel, stainless steel, steel corrosion, carbon steel corrosion, stainless steel corrosion, carbon steel alkaline corrosion, stainless steel alkaline corrosion, alkaline corrosion, high temperature corrosion ABSTRACT: The tubes of evaporators for aluminum oxide production by the Bayer process are rapidly destroyed by concentrated alkaline solutions. Previous studies by Ya. D. Averbukh, K. G. Potaskuyev and A. A. Sharnin have shown that corrosion is increased by turbulence of the solution at the heated surface. In previous publications by the authors, the corrosion resistance of stainless steel was found to be higher than that of carbon steel. However, at the Bogoslovskiy elyumini-yevyky zavod (Bogoslovsk Aluminum Plant), stainless steel tubes were destroyed at the same rate as curbon steel tubes, while at the Bereznikovskiy sodovoy zavod (Berezniki Soda Plant) stainless steel tubes were found to be more durable than carbon steel tubes. It was assumed by the authors that the basic cause of rapid corrosion in the aluminum plant was boiling in the tubes, this being checked in

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ACCESSION NR: AP4045409

the present paper. Tubes of carbon steel 20 and stainless steel 1Khi8N9T were tested under the influence of solutions containing 300 g/L of caustic soda or 60% NaOH and 40% KOH (concentrations of 500 g/L recalculated for caustic soda), at temperatures of 115 and 1400 for 8 hours. The testing device for measuring tube wear is described. The inserted tubes were considered to be divided into three zones: upper, middle and lower. The lower zone was in the non-boiling solution and the upper one was in the steam. The intensity of steam formation was changed In different tests by varying the amperage in the heating coil. The rate of wear was found from the loss of weight. Analysis of the results showed that stainless steel tubes are 2-20 times as resistant to alkaline corrosion as carbon steel tubes. The corrosion rate increased with the heating rate and with stirring of the solution, and was higher in the middle than in the upper zone. At icw heat loads in the upper zone, stainless steel tubes showed higher durability than carbon steel tubes, but as the heating rate rose the durability became equal. The durability of stainless steel tubes at Berezniki is explained by nickel passivation, but the passivated layer may easily be removed by a brush. The article concludes that stainless steel tubes should be used for aluminum oxide production only when the tubes are not located in the boiling zone. Orig. art. has: 4 figures.

Card 2/3

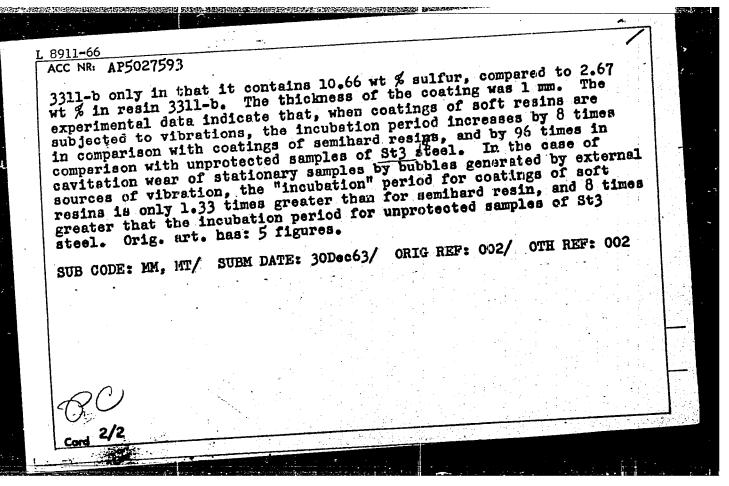
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(N)_L 8911-65 EWT(m)/EWP(w)/EWA(d)/EWP(j)/T/EWP(t)/EWP(z)/EWP(b) ACC NR: AP5027593 MJW/JD/DJ/RM SOURCE CODE: UR/0145/65/000/009/0086/0089 AUTHOR: Konovalov. V. M. (Aspirant); Shabalin, K. N. (Doctor of Technical Sciences) 47,55 ORG: Ural Polytechnic Institute (Ural'skiy politekhnicheskiy institut) Protection of metals from cavitation wear by resin coatings SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1965, 86-89 TOPIC TAGS: cavitation, metal, protective coating, resin/ resin 3311-b

ABSTRACT: The experiments were carried out on a magnetostrictive test unit. The vibrating part of the unit was a nickel tube 310 mm long with a diameter of 18 mm. The sample was screwed into the bottom of the tube, whose working section was filled with tap water at a temperature of 16-20°C. The vibration frequency of the tube, determined by its dimensions and the weight of the test samples, was 8000 cycles. The amplitude of the vibrations was 0.035 mm. Tests were made on samples of St3 steel with an area of 2.5 cm coated with resin and were compared with tests on the same samples without coating. The tests were made on soft resin 3311-by with a Jones hardness of 4.3 - 4.5, and a semihard resin of special composition, called "Sm-2", with a Jones hardness of 6.0. This last resin differs from the standard composition Card 1/2 UDC: 539.375

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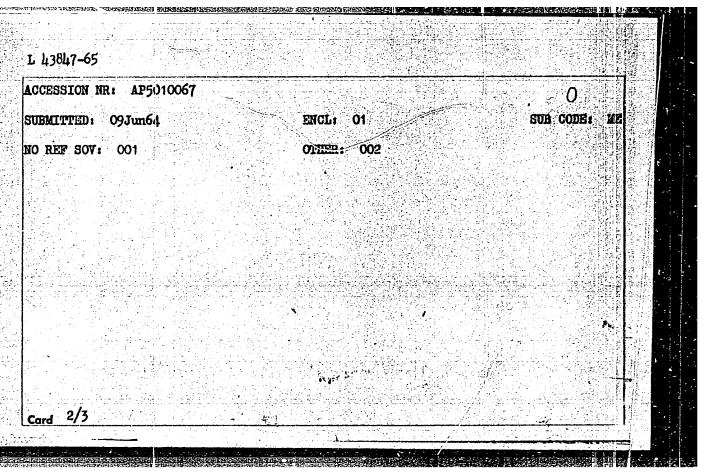
NEVSKIY, A.S.: SHABALIN, K.N.; KITAYEV, B.I.; ZABRODSKIY, S.S.

Nikolai Ivanovich Syromyatnikov, 1915-; on his 50th birthday.
Inzh.-fiz. zhur. 8 no.3:411-412 Mr '65.

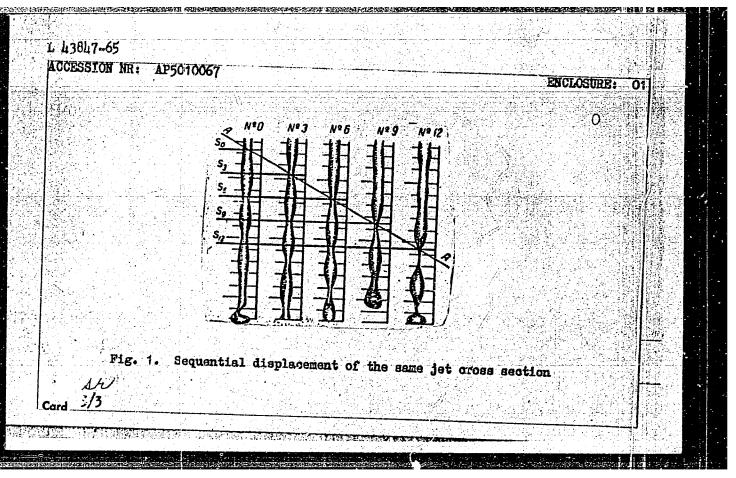
(MIRA 18:5)

EWT(1)/EWP(m)/EWT(m)/EPF(c)/EPA(w)-2/T Pd-1/Pab-10/Pr-4 L 43847-65 UR/0170/65/008/004/0445/0446 ACCESSION NR: AP5010067 Vivdenko, M. I.; Shabalin, K. N. TITLE: On the mechanism of decay of a jet into coarse droplets SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8, no. 4, 1965, 445-446 TOPIC TAGS: fluid jet, friction, oscillation, jet structure ABSTRACT: The break-up or decay of a water jet into large drops was studied by means of an 1850-frame-per second high-speed camera. The water jet was 30 x 10-3 m long and came out of a 0.97 x 10-3 m diameter nozzle with a speed of 1.07 m/second. Figure 1 on the Enclosure shows clearly an enlarged sequence of jet oscillation and its eventual break-up into droplets. Analysis of this photograph shows an alternating sequence of contractions and expansions at a given jet cross section, caused by Laplace forces. This type of a behavior may allow a new way of determining effects of flow viscosity, surface tension, and flow velocity on droplet formation. Orig. art. has: 1 figure and 1 formula. ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova, (Ural Polytechnic Institute) 1/3

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Theory of the rubber coating protection of metals from cavitation erosion, Tashoh, met. 1 no.5:494-499 S-C 165. (MFA 18:9)

VIVDENKO, M.I.; SHABALIN, K.M.

Studying the conditions of the forming of uniform down measuring (1,0-q5) ... 10-3 m. Izv.vys.ucheb.zav.; keic.i khim.tekh. 8 no.4x685-590 *65.

(MIR leal)

1. Ural skiy politekhnicheskiy institut imeni Kirova, kafedra protsessov i apparatov khimicheskoy tekhnologia.

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ACC NR: AP5022656	SOURCE CODI	ww/w <i>b/00</i> E: UR/0365/65/001/005/0494/	Λυπόδ
			41
AUTHOR: Konovalov	, V. M.; Shabalin, K. N.	•	R
ORG: Ural Polytech	nical Institute (Ural'skiy polite	ekhnicheskiv institut imani	C K
Kirova)	14,55		C. 11.
TITIE: The theory	of protection of manual		
coatings	of protection of metals against of	cavitation corrosion by rubb	er
R'MM's		פן לנכווג	
SOURCE: Zashchita	metallov, v. 1, no. 5, 1965, 494-	-499	
TOPIC TAGS: rubber	, corrosion protection, corrosion	linhihiton nuotootivo eesti	
cavitation	, ograssian protocotas, , corrostor	r runipitor brofective coaff	.ng,
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abbiract: A theore	tical and experimental study was hardnesses against cavitation co	made of protection by rubbe	r 4
vere rubber coated	and subjected to streams of water	from a tap. Two schemes w	rere
used: 1) mobile -	the samples were attached to a vi	bratory stand. 2) immobile	- the
sampies were attach to cavitation by bu	ed under the vibratory stand; bot bbles. The results of these test	th sets of samples were subj	ected
to carriation by bo	bbles. The results of these test	s are given in a table which	in.
Card 1/3		UDC: 620.193.16	
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ACC NR: AP5022656

shows the influence of the hardness and thickness of the coatings on cavitation erosion. Tests were also made of samples without coating. In general, the data proves that soft rubber is more protective than hard rubber, and more protection is guaranteed by the thicker coatings. The criterion used in the testing program was the incubation period: the time for the first visible trace of erosion on the surface (ranging from 5 to 10 sec for the hardest rubber to 60 hrs for the softest). A theoretical curve of the results gives the dependence of pressure amplitude on the thickness of the rubber coatings, for soft, half-hard and hard rubbers. The curve is derived from the following relation:

$$P = \frac{2\pi f \rho c A}{1 + 2\pi f \rho c \frac{h}{\beta E}}.$$

where P = amplitude of the variable source pressure,

f = cyclic frequency,

A = amplitude of liquid displacement (m),

 ρ = density of the liquid (kg=sec²/m⁴),

c = speed of sound in the liquid (m/sec),

h = thickness of rubber coating,

Card 2/3

L 17027-66

ACC NR: AP5022656

E = modulus of elasticity,

 β = coefficient of hardening.

A relationship is also developed for the pressure (P) as a function of velocity of impact. The theoretical results are plotted for soft rubber of thicknesses 1, 3, and 5 mm, as well as for uncovered steel St3. At any velocity, the pressure on uncovered steel is higher; - the rubber coating decreases this pressure by a factor of 3 to 5, the decrease is greater for thicker coatings. Orig. art. has: 2 figures, 1 table.

SUB CODE: GC, MM/ SUBM DATE: 30Apr65/ ORIG REF: 012/ OTH REF: 000

Card 3/3 Ma

CHERNOBROYKIN, Viktor Petrovich; SHABALIN, L.A., inzhener, retsenzent;
DUGINA, N.A., tekhnicheskikh redaktor of

[New method of controlling the quality of iron while smelting and pouring] Novyi metod kontrolia svoistv chuguna po khodu plavki i zalivki. Moskva, Goe. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 36 p.

(Iron--Metallurgy)

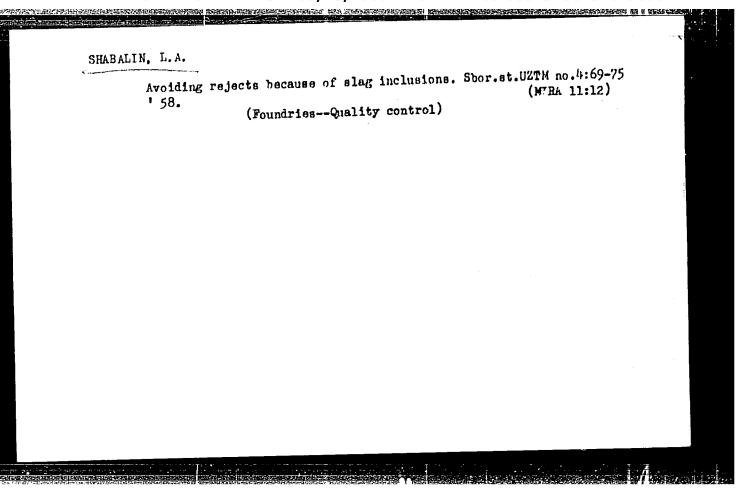
(MLNA 10:6)

SHABALIN, L. A.

"Elimination of Rejects Due to Slag Inclusions"

Making of Large Castings, Moscow, Mashgiz, 1958, 108pp.

(This book was prepared for the 25th Anniversary of the Uralmashzavod. The stages of founding development in the plant and the plant's progress and achievements in this field are described.



GIMMEL'MAN, Nikolay Robertovich; KOCHUROV, Aleksey Stepanovich;
Prinimali uchastiye: BCRISOV, A.P., inzh.; ZHIDKIKH, I.A.,
inzh.; VOLEGOV, A.F., inzh.; SHABALIN, L.A., inzh.
MINHEYEV, N.P., kand.tekhn.nauk, retsenzent; ABAKUMOV, S.F.,
inzh., retsenzent; ZASTYKIN, A.G., inzh., retsenzent;
ZALOZHNEV, G.N., inzh.; retsenzent; KLOTSMAN, M.I., inzh.,
retsenzent; KOLMOGOROV S.M., inzh., retsenzent; BLANK, E.M.,
inzh., red.; RUGINA, N.A., tekhn.red.

[Making models] Model'nce proizvodstvo. 3. perer. izd.
Moskva, Mashgiz, 1961. 295 p.

(Engineering models)

(Molding (Founding)--Equipment and supplies)

KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich; SMELYAKOV, Nikolay Nikolayevich; DUBITSKIY, G.M., doktor tekhn. nauk, retsenzent; ZOBNIN, B.F., kand. tekhn. nauk, retsenzent; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent; LEVCHENKO, P.V., kand. tekhn.nauk, retsenzent; MAKURIN, P.I., kand. tekhn. nauk, retsenzent; PORUCHIKOV, Yu.P., kand. tekhn. nauk, retsenzent; ROZENBERG, I.A., kand. tekhn. nauk, retsenzent; SERGEICHEV, N.F., kand. tekhn. nauk, retsenzent; FILIPPOV, A.S., kand. tekhn. nauk, retsenzent; YAROSHENKO, Yu.G., kand. tekhn. nauk, retsenzent; BAZAROVA, N.V., inzh., retsenzent; BLANK, E.M., inzh., retsenzent; VOLFYANSKIY, L.M., inzh., retsenzent; ZAKHAROV, B.P., inzh., retsenzent; MYSHALOV, S.V., inzh., retsenzent; RAZUMOVA, M.S., inzh., retsenzent; SHKUNDI, R.M., inzh., retsenzent; DUGINA, N.A., tekhn. red.

[Handbook of foundry practice] Spravochnik rabochegoliteishchika. ^Izd.3. Moskva, Mashgiz, 1961. 584 p. (MIRA 15:4) (Founding--Handbooks, manuals, etc.)

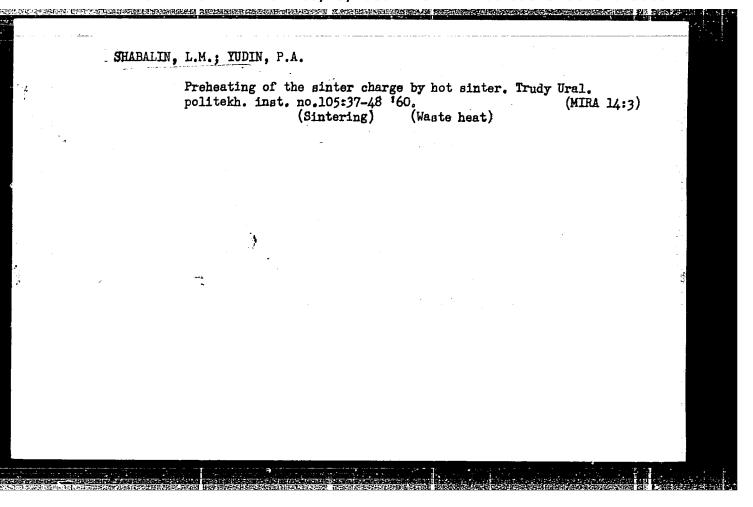
SHABALIN, L.I. Diurnal dynamics of the growth of some meadow grasses. Bot. zhur. 49 no.3:395-398 Mr '64. (MIRA 17:3) 1. Kazanskiy pedagogicheskiy institut.

PETROV, A.P., SHABALIN, L.I.

Daily rhythm of the blooming of graminecus plants in connection with growth processes. Bot.zhur. 49 no.10x1477-1480 0 164.

(MIRA 18:1)

1. Kazanskiy pedagogicheskiy institut.



SHARALIN, N. N. (Chief Vet.); SVIRIDOV, A. A.

So: Vet. 25 (10) 1948, p. 21

Novosibirsk Union Milk Trust

ZELENKOV, Vladimir Il'ich; SHABALIN, Nazar Nazarovich; BOYESHKO, M.F., redektor; KHITROV, P.A., tekhnicheskiy redaktor

[Using new techniques in marshalling yards; the practices of the Berdyaush station of the Southern Urals Railroad] Ispol'zovanie novoi tekhniki na sortirovochnoi stantsii; opyt st. Berdiaush IUzhno-Ural'skoi dorogi. Moskva, Gos. transp.zhel-dor. izd-vo, (MIRA 10:1)

(Rayroads -- Hump yards)

1956. 35 p.

SHABALIN, N.N. kandidat tekhnicheskikh nauk; ZELENKOV, V.I., inzhener.

Improving station technology on the basis of new equipment. Tekh. zhel.dor. 15 no.3:25-27 My '56. (MLRA 9:8)

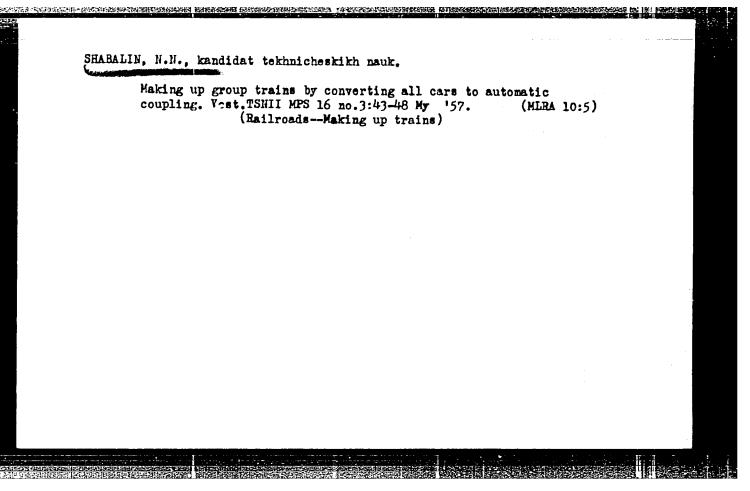
1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta imeni I.V. Stalina.

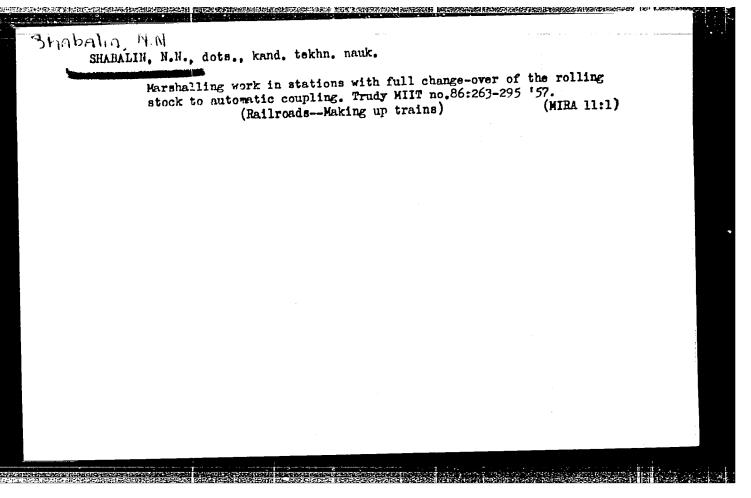
(Railroads--Station service)

SHABALIN, N.N., kandidat tekhnicheskikh nauk.

Rfficient use of hump-yard technology. Zhel.dor.transp. 38 no.10:
35-38 0 '56. (KLRA 9:11)

(Railroads--Hump yards)





SHARALIN, No.No., kand.tekhn.nauk, dotsent

Selecting the technology for making up trains. Trudy MIIT no.11.2:8(MIRA 14:5)

(Railroads-Making up trains)

TARUNIN, G.V., inzh.; SHABALIN, N.N., dots.; DCBROSEL'SKIY, K.M.

Improving the station technology under present-day conditions. Vest. TSNII MPS 18 no.5:54-58 Ag '59. (MIRA 13:1)

1. Moskovskiy institut inzhenerov zheleznodorozhnego transporta im. I.V. Stalina, stantsiya Chelyabinsk Yuzhno-Ural'skoy zheleznoy dorogi. (Chelyabinsk---Railroads---Stations)

SHABALIN, N.B., kand.tekhn.nauk

Making up trains under new conditions. Zhel.-dor.transp. 41
no.9:56-59 S '59. (MIRA 13:2)

(Railroads--Making up trains)

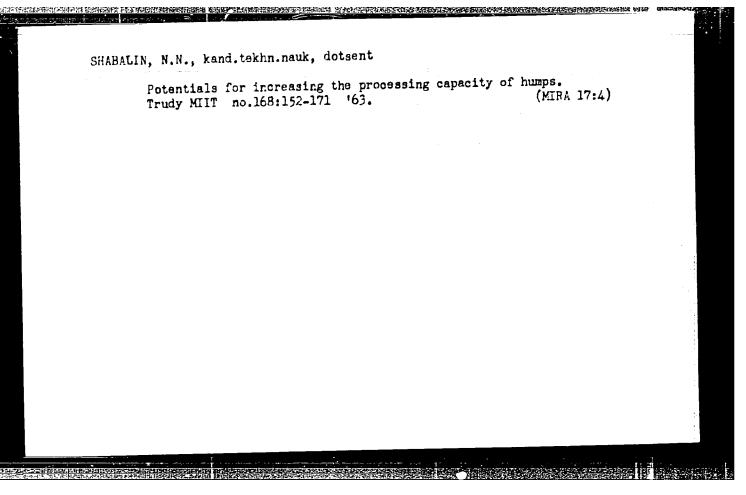
SHABALIN, N.N., kand.tekhn.nauk

New equipment and improvement in the work of the classification yard. Zhel.-dor.transp. 43 no.9;30-33 S '61. (MIRA 14:8)

(Railroads—Yards)

SHABALIN, Nazar Nazarovich; PARISTYY, Ivan Leont'yevich; FARBEROV, Ya.D., inzh., retsenzent; MANYKOV, G.S., inzh., red.; USENKO, L.A., tekhn. red.

[Efficient utilization of the technological equipment of stations; work practices of Bryansk II Station of the Moscow Railroad] Effektivnoe ispol'zovanie tekhnicheskikh ustroistv stantsii; opyt raboty stantsii Briansk II Moskovskoi dorogi. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei scobshcheniia, 1962. 44 p. (MIRA 15:3) (Railroads-Equipment and supplies)



SHABALIN, N.N., kand.tekhn.nauk

Increasing the traffic capacity of classification yards. Zhel. dor.transp. 45 no.10:33-36 0 163. (MIRA 16:11)

SHABALIN, M.N., kand. tekhn. nauk

Parallel train sorting on double-track humps. Vest. TSNII MPS
25 no.1:49-53 '66.

(MIRA 19:2)

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GARIN, N.D., kend.med.nauk; SHABALIN, N.P.

Operation in immobilization of the elbow joint caused by ossifying hematoma in a patient with hemophilia. Khirurgiia no.9: 78-79 '61. (MIRA 15:5)

1. Iz khirurgicheskoy kliniki (zav. - prof. D.M. Grozdov) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi
(dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov)
Ministerstva zdravookhraneniya SSSR.

(ELBOW--DISEASES) (HEMOPHILIA) (HEMATOMA)

Studying work methods of mechanizers in the nest industry. Tour now 20

Studying work methods of mechanizers in the peat industry. Torf.prom. 30 no.8:28-31 Ag '53. (MLRA 6:7)

1. Karinskoye torfopredpriyatiye (for Shabalin, Mikheyev). 2. Kirovskiy torfotrest (for Lobanova). 3. Ozeretskoye torfopredpriyatiye (for Sidorov). (Peat industry)

SHABALIN .N.S., inzh.

Increasing the reliability of remote-control devices. Elek.sta. 29
no.5:67-71 %y '58. (MIRA 12:3)

(Remote control--Equipment and supplies)

S/105/60/000/06/21/023 B014/B011

AUTHOR:

Shabalin, N. S., Engineer (Moscow)

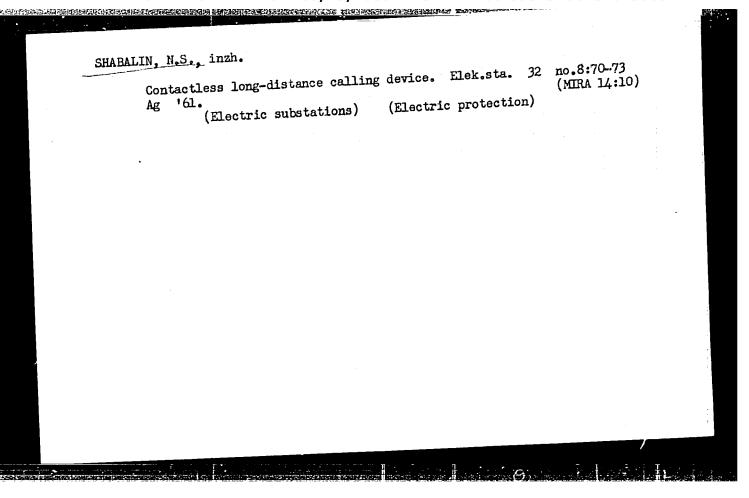
TITLE:

On the Reliability of the Operation of Telemechanic Devices

PERIODICAL: Elektrichestvo, 1960, No. 6, pp. 91-93

TEXT: The problem of the reliability of telemechanic systems is discussed in the introduction and it is stated that little attention is devoted to this problem, and that no theoretical investigations, calculation and measurement methods are available so far. The usual definition is given of the reliability of a device as being its ability of fulfilling its task. This definition, however, is said to be inadequate, inasmuch as it does not offer any possibility of evaluating the reliability of different kinds of devices. Fig. 1 shows a time diagram of the operation of a telemechanic device, and it is pointed out that the coefficient of the application of the device is made use of for evaluating its operation. A formula is given for this coefficient and it is pointed out that the coefficients of one and the same device can differ in different parts of one and the same power system. This

Card 1/2



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5/196/62/000/002/021/023 E194/E155

AUTHOR 1

Shabalin, N.S.

TITLE:

A contactless device for 'calling' telesignalling

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika,

no.2, 1962, 37-38, abstract 2E 214. (Elektr. stantsii, no.8, 1961, 70-73).

Service experience with unattended sub-stations indicates that it would often be possible to use only simple telesignalling equipment. For this purpose the Mosenergo power system uses calling telesignalling device type YTC-3 (UTS-3) developed and made by TsLEM Mosenergo. The device is intended for transmission of three emergency warning signals from a manned substation to a central control point. Two signals can be transmitted simultaneously; the third is given priority. The signals are identified by different durations of impulses and The device is mainly based on semiconducting elements and consists of two main parts, a transmitter and receiver. Schematic circuit diagrams of both parts are given and their Card 1/2

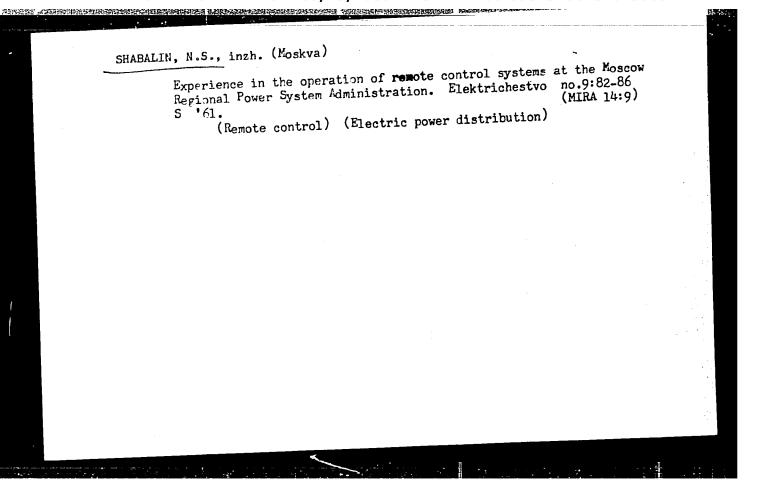
A contactless device for 'calling'...E194/E155

Term description of the companies of the

operating principles are described. The communication channels may be communication lines on wires (with or without multiplexing) or high-frequency channels on transmission lines. Operating experience with the equipment has proved its reliability.

[Abstractor's note: Complete translation.]

Card 2/2



8/194/62/000/012/024/101 D201/D300

AUTHOR:

Shabalin, N. S.

TITLE:

Automatic supply reserving in remote control and RP

channel installations

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 57, abstract 12-2-114 p (Elektr. stamtsii, no. 5, 1962, 90-91)

TEXT: Problems of increasing the reliability of remote control of 35 to 110 kW sub-stations are considered. It is pointed out that one of the methods of increasing the reliability is the automation of supply reserving of remote control installations and of HP points of remote control and communication installations. It is shown that this automation is sufficiently simple and is designed using rotary single-armature d.c. to a.c. converters #0-300 (PO-300), PO-600 or PO-1000. Switching is made by intermediate 311-415 (EP-41B) or PN-23 (RP-23) relays. The sequence of operations, of the automatic circuit is described for the case when the supply breaks

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Automatic supply reserving ...

S/194/62/000/012/024/101 D201/D308

down. The signals operating the automatic switching-in of the reserve supply and signalling the circuit insulation breakdown, are transmitted to the area control point by the common remote signal "PS failure". Several recommendations as to the design and operation of automation circuits are made. It is recommended in particular that the automation circuits for remote control and HF channel equipment be installed on a common panel. The d.c. reserve power supplies are recommeded for use as reserve for normally a.c. aperated equipment. / Abstracter's note: Complete translation. /

Card 2/2

BERDICHEVSKIY, I.M., inzh.; SHABALIN, N.S., inzh.

Simplified control toard for dispatcher control stations of municipal cable networks. Elek. sta. 33 no.8:86-38 Ag '62.

(MIRA 15:8)

(Moscow-Electric power distribution) (Remote control)

SHAPALIN, N.S., inzh. (Moskva)

Overall automation and remote control of 35 to 110 kv.
traction network substations. Elektrichestvo no.10:80-83 0 '62.
(MIRA 15:12)

(Electric railroads—Current supply)
(Remote control)

(Automatic control)

SHABALIN, N.S.

Reservation of power supply for telemetering devices.
Energetik 11 no.4:41 Ap '63. (MIRA 16:3)

(Telemetering)

(Electric power supply to apparatus)

SHABALIN, N.S., inzh.

Engineering and economic efficiency of complex telemechanical and automatic control system in electric power distribution networks. Elek. sta. 34 no.1:60-64 Ja '63. (MIRA 16:2) (Electric power distribution) (Automatic control) (Remote control)

SHABALIN, N.S.

Transmission of ammeter readings on a distance. Energetik. 13 no.7:40-41 Jl 165. (MIRA 18:8)

1. Zamestitel' nachal'nika TSentral'noy sluzhby zachchity, avtomatiki i telemekhaniki Moskovskogo rayonnogo upravleniya energeticheskogo khozyaystva.

SHABALIN, N.S., inzh.

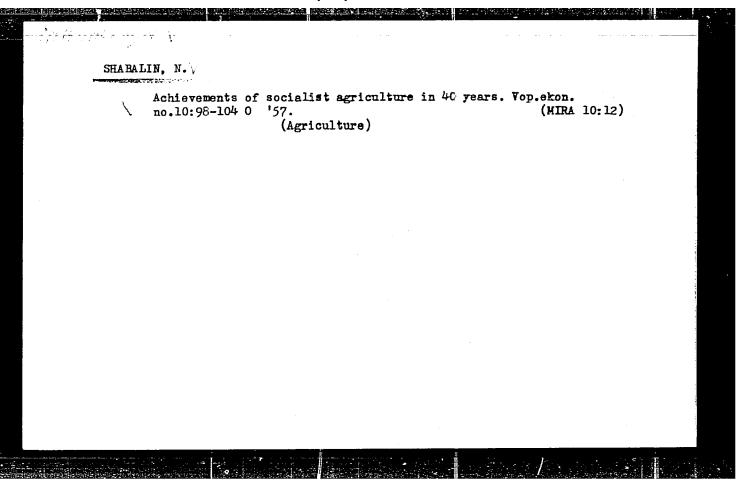
Author's reply to remarks on the article "Techrical and economic effectiveness of overall automation and remote control in electrical power distribution networks." Elek. sta 36 no.4; 81-83 Ap '65. (MIRA 18;6)

SHABALIN, Nikolay Vasil'yevich; GREBTSOV, P.P., red.; PEVZNER, V.I., tekhn.red.

[From manual labor to machine] Ot truda ruchnogo k mashinnomu.

Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 52 p. (MIRA 11:1)

(Agricultural machinery)



In the photography sections of the Union of News Reporters. Sov.foto
20 no.10:44 0'60. (MIRA 13:10)

1. Predmedatel' pravleniya fotosektsii Soyuza zhurnalistov Kazakhskoy SSR (for Tilekuetov). 2. Predmedatel' pravleniya fotosektsii Soyuza zhurnalistov Estonskoy SSR (for Less'). 3. Predmedatel' pravleniya fotosektsii Altayskogo otdeleniya Soyuza zhurnalistov SSSR (for Kalinin).
4. Fotokorrespondent gazety "Orlovskiy komsomolets" (for Shabalin).

(Fhotography, Journalistic)

S/084,'60/000/03/045/083 D047/1)002

AUTHOR:

(

Shabalin, V., Senior Aviation Technician (Yakutsk)

TITLE:

Improve MP-85M Heaters

PERIODICAL:

Grazhdanskaya avitasiya, 1960, Nr 3, p 19 (USSR)

ABSTRACT:

This states that the MP-85 heater nust be improved so that it can be used in up to 60 degrees of frost. The rubber covering of the cable or the present model breaks if it is bent in 45-50 degrees of frost. Intense cold also causes failure of the starting system of

the electric motor.

Card 1/1

SHAEALIN, V. A.

Sovety sotsial'nogo strakhovaniia na tekstil'nykh predpriiatiiakh /Social insurance councils at textile enterprises/. Ivanovo, Ivanovskoe knizhnoe izdatel'stvo, 1953. 88 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

Method for instructing medical corpsmen in first aid for tank personnel. Voen.med.zhur. no.3:14-17 '50. (MIRA 12:6) (MEDICINE, MILITARY AND MAVAL, educ. med. corpsmen, first aid :nstruction (Rus)) (FIRST AID instruction for med. corpsmen (Rus))

SHABALIN, V.A., kand.med.nauk

Method for cephalography. Gig. 1 san. 25 no.3:62-67 Mr 160.
(MIRA 14:5)

(EQUILIBRIUM (PHYSIOLOGY))

- SHABALIN, V.A.; YEGURNOV, N.I.

Oscillographic registration of blood pressure in animals in acute experiments. Biul. eksp. biol. i med. 49 no. 6:109-110 Je '60. (MIRA 13:8)

1. Predstavlena daystv. chlenom AMN SSSR V.N. Chernigovskim. (BLOOD PRESSURE) (OSCILLOGRAPHY)

SHABALIN, V.A., kand.med.nauk (Moskva)

Influence on the human body of angular displacements of an impulsive nature. Gig. i san. 26 no.6:46-51 Je '61. (MIRA 15:5)

(INDUSTRIAL HYGIENE) (MOVEMENT (PHYSIOLOGY))

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDF

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1015/1215

AUTHOR:

Shabalin, V. A.

TITLE:

Characteristics of changes in the conditioned reflex responses in man affected by carbon

monoxide and vibration

PERIODICAL:

Byulleten' eksperimental'noy biologii i meditsiny, v. 53, no. 1, 1962, 45-47

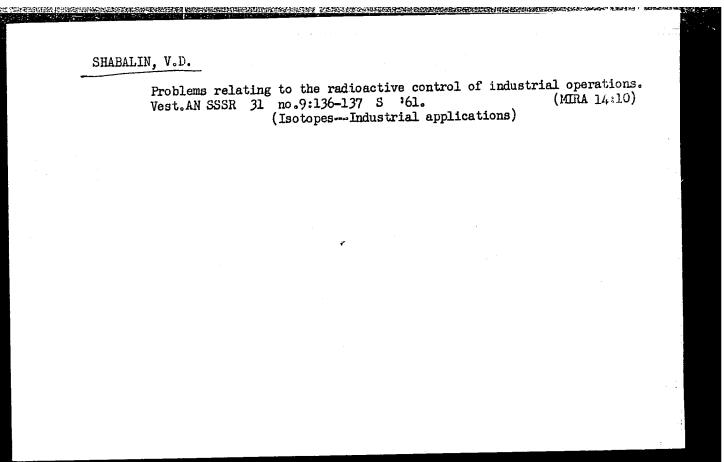
TEXT: Observations were made on 36 young persons divided into four groups of nine persons each. Conditioned reflexes, latent periods, and reaction-time were measured. CO had a stabilizing effect on the latent period, in contrast to fluctuations observed before administration of the gas; simpler conditioned-reflexes were more resistant to the untoward effect of CO. Vibration showed the same effect as CO. The author assumes that the phenomenon of stabilisation of the latent periods must be regarded as a result of a general decrease in the dynamic cortical processes, caused by the experimental conditions. There are 2 tables.

SUBMITTED:

January 21, 1961

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Card 1/1



DOL'NIK, V.A.; SHABALIN, V.I.; MAKHLINA, M.I.; SUCHILIN, A.P.

Ways of improving the bonus system in geological organizations. Razved. i okh.nedr 31 no.4:57-59 Ap '65.

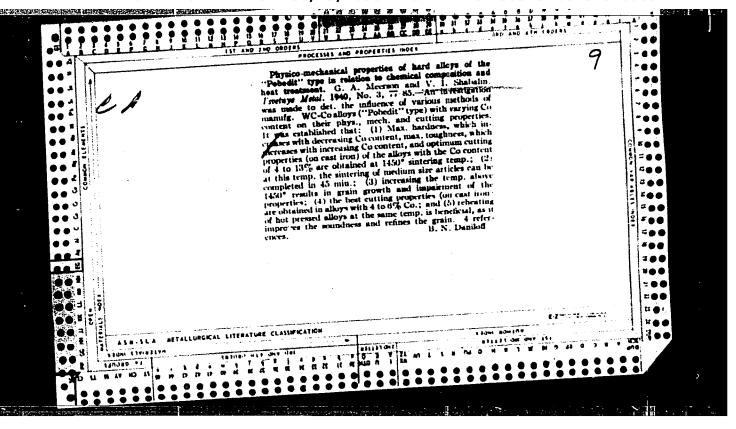
(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki mineral'nogo syr'ya i geologorazvedochnykh rabot (for all except Suchilin). 2. Gosudarstvennyy geologicheskiy komitet SSSR (for Suchilin).

SHAPALINA, V.I.; GORYAYEV, M.I.; DEMBITSKIY, A.D.

Study of the constituents of essential oils. Part 20: Isomerization transformations of desables under the effect of the KU-1 cation exchanger and metatitanic acid. Khim.prirod.soed. no.4:247-250 65. (MIRA 19:1)

1. Institut khimicheskikh nauk AN KazSSR. Submitted February 17, 1964.



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	USSR/Regineering Jun 48 Welding - Inspection Welding - Cracks		
	"Some Cases of Rupture of Welded Tanks at Low Temperatures," V. I. Mabalin, Engr, 1 p		
	"Avtogennoye Delo" No 6 - ph 29-30		
	Discusses causes for failure of a number of welded tanks at an oil base during cold weather.		
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SHABALIN, V. I.

PA 167TF9

USSR/Metals - Welding

Oct 50

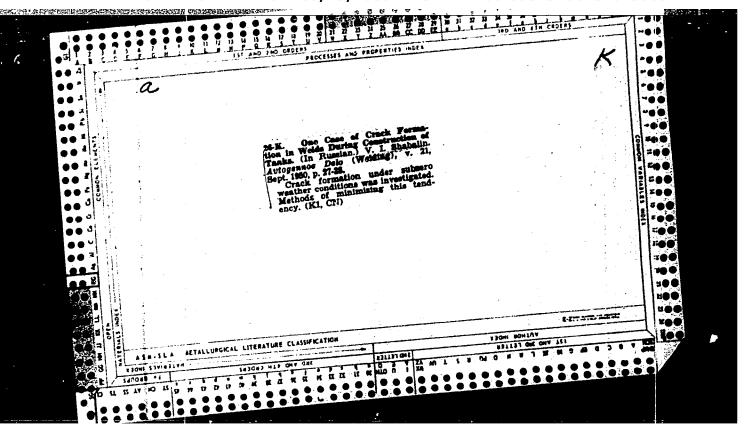
"Classification of Internal Stresses," Engr V. I. Shabalin

"Avtogen Delo" No 10, pp 31-32

Suggests classification of internal stresses created in metal by welding. Says technical literature gives insufficient, sometimes erroneous information on subject. Introduces concept of internal stress never before mentioned in literature; a stress created in the entire structure due to changes in dimensions of one or several of its elements.

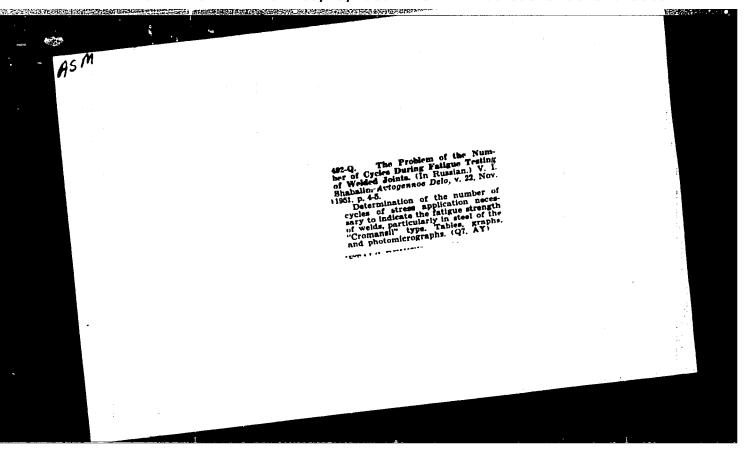
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SHABALIN, V.I.	200760	decrease of base number may shorten 200760 Nov 51	in nsill 106 jory	"Concerning the Number of Cycles in Fatigue Testing of Welded Joints," V. I. Shabalin, Engr "Avtogen Delo" No 11, pp 4-6	USSR/Engineering - Welding, Testing Nov 51

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548230001-7



AUTHOR:

Shabalin, V. I.

sov/32-24-9-25/53

TITLE:

The Investigation of the Influence on the Resistance of Armoo Iron of the Frequency of the Change of Stress (Issledovaniye vliyaniya chastoty peremen nagruzheniya na vynoslivost! armko-

zheleza)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1:10-1112

(USSR)

ABSTRACT:

The investigations hitherto carried out in connexion with the question mentioned in the title have not resulted in a consensus of opinion. The discrepancy in experimental data is explained by the fact that the tests were not conducted under identical conditions. In the paper under discussion, an experimental arrangement and a method have been evolved, which contain only one variable quantity - the frequency of the change of stress. The fatigue resistance of a metal was estimated, not only from the stability of the samples in the field of cyclic overstress, but also from the resistance limits. Tests were carried out with standardized bracket samples of armoo iron (the segment diameter being 8 mm). The mechanical properties of the metal, which were obtained in static extension in a 10-ton test

Card 1/2

sov/32-24-9-25/53

The Investigation of the Influence on the Resistance of Armoo Iron of the Frequency of the Change of Stress

machine GURM-10, are given. 8 test plants were built, 4 of which operating at a frequency of 3000 cycles/minute, and 4 at 20 cycles/minute. Diagrams of the two types are given, together with the fatigue graphs plotted by the method of Mitropol'skiy-Shashin (Ref 3). N. N. Trinov, V. N. Ivashkevich, and R. A. Bekurina participated in the carrying out of the investigations under discussion. which are Soviet. There are 4 figures and 2 references,

Card 2/2

10(4)

30V/20-122-4-16/57

Auditor:

Shabalin, V. I.

TITLE:

On a Discontinuity in the Curves of Patigue of Duralumin

(O razryve v krivykh ustalosti dural/umina)

TERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 600-602

(USSR)

APSTRACT:

In the investigation of the fatigue of netals, one endeavers to carry out the experiments at high frequencies of the variable

stress, (1500; 3000; 6000 and more cycles per minute) in order to carry out the experiments in a short time. Under such conditions, however, the sample may be investigated only for stresses below yield joint (precel tekuchesti). In the opposite case the metal would become very hot. Some constructions (especially in aviation), are, however, calculated with a very small safety factor. It is necessary, therefore, to investigate the fatigue of metals and alloys not only in the clastic, but also in the elastic-plastic region of the strestes. In order to solve such problems, the author designed and constructed 10 1,5-ton excenter pulsators for the testing of the specimens by repeated stretching with a

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SOV/20-123-4-16/57

On a Discontinuity in the Curves of Fatigue of Duralumin

frequency of 10 cycles per minute. This remarkable number of testing engines permits mass experiments on a great number of samples. The author investigated the fatigue of a sheet of plated (plakirovannyy) duraluminum of the type A16T(thickness 2,5 mm). The fatigue of 136 samples was investigated without removal of the plating aluminum layer. The results of the experiments are given as a fatigue curve in the coordinates σ_{max} . II. σ_{max} denotes the maximum tension and H - the number of the cycles divided by 1000. This curve consists of 2 branches which are separated by the tensions 33 and 32 kg/mm2. The lower branch of the curve characterizes the efficiency of the alloy in the region of elastic stresses, the upper branch does so in the region of elastic-plastic stresses. 186 samples were tested after the removal of the lating layer. Also in this case, the fatigue curve was split into 2 branches if the stresses amounted to 32-33 kg/mm². The third diagram shows the results of the fatigue tests of weldel seams of duralumin. Also this curve has a distinct discontinuity. The results of this paper may be explained on the basis of the theory of dislocations in crystals. There

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On a Discontinuit: in the Curves of Fatigue of Duralumin

one of figures and 1 reference, 1 of which is Soviet.

PRESENTED: May 28, 1958, by S. A. Khristianovich, Academician

STUMMIZIED: Tay 20, 1958

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