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CIA-RDP86-00513R001963110017-2



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T/BAP(1) (WHEEL)  ${\mathbb R}^{n}$ 你。"你们的问题是<sup>1</sup> \$/0137/61 -ACCESSION NR: AR5004788 SOURCE: Ref. zh. Metallurgiya, Abs. 101573 AUTHOR: Yudkovskiy, S. I.; Erkumans, E. F.; Guarden, 7. F.; Romanov, K. F.; Smirnev, F. F. TITLE: Cutting and physicomechanical properties titanium boride base CITED SOURCE: Sb. tr. Vses, n.-1. In-t tverdykh ar a 1964. 130-141 19

TOPIC TAGS: <u>titanium base</u> alloy, boron containing slates, in containing alloy, titanium diboride alloy, metal methods metal physical property, cutting tool

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SOV/122-58-8-25/29
AUTHOR: Yudl, I., Engineer, and Hovotnyy, V.
TITLE: Supercharged, Diesel Engines at the Third Exhibition of Czechoslovak Engineering (Dizeli s nadduvom na III vystavke chekhoslovatskogo mashinostroyeniya)
PERIODICAL: Vestnik mashinostroyeniya, 1958, Nr 8, pp 81 - 84(USJR)
ABSTRACT: Abridged translation of an article in the Czech Journal "Strojirenstvi", 1957, Nr 8.
1. Diesel engines--Czechoslovakia 2. Superchargers--Application: Card 1/1

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AUTHORS:	Bragin, V. A., Mayorov, A. N., Yudochkin, V. G.	S/119/62/000/007/006/006 1045/1245
TITLE:	Cooling experiments with the "Ural" machine	Nerte un
PERIODICAL:	Priborostroyenie, no. 7, 1962, 30-31	
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YUDOLOVICH, M. YO., MIKHAYLOV, K.F.

Installation and Repair of Petroleum Industry Equipment. Gostoptekhizdat, 1956, 431 p, price: rubles 11.30. Admitted by the Board of Control of Teaching Institutions of the Ministry of the Oil Industry of USSR as a textbook aid for petroleum technical schools. In book is exposed in detail the technical repair of drilling and oil-trade equipment. Moreover, there is described the installation and dismantling of equipment with the application of efficient methods of work organization. Book may also be useful for drill bureau mechanics and workers in the trade.

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YUDOW. Z.T. L.V dia h GREBENSHCHIERW, P.A., obshchiy red.; YUDOLOVICH, V.V., red.; VYATKIN, G.F., red., NERUCHEV, G.A., red.; SUKHERDERGY, H.A., red.; STRAZH, Ye.F., red. MJKHINA, A.I., red.; KOLESHIKOY, F.H., red.izd-ve; SEMENCHENKO. P.P., tekhn, red, [Economy of the Chechen-Ingush A.S.S.R.; a statistical manual] Marodnoe khoziaistvo Checheno-Ingushskoi ASSR; statisticheskii abornik, [Groznyi] Checheno-Ingushakoe knizhnoe izd-vo, 1957. 131 p. (MIRA 11:3) 1. Chechen-Ingush A.S.S.R. Statisticheskoye upravleniye. 2. Machal'nik Statisticheskogo upravleniya Checheno-Ingushekoy ASSR (for Grebenshchikov) (Chechen-Ingush A.S.S.R.-Stetistice)

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TCLUBANOV, A.F.; GRIGOR<sup>4</sup>TEVA, V.D.; MUXHINA, A.I.; TUDOLOVICH, V.V.; ULANOVA, K.M.; DANBIT, M.P.; GREBENSHCHIKOV, F.A., red.; NAELOKOVA, G.I., red.izd-vs; TUPAYEV, Kh., tekhn.red, [Forty years of the Chechen-Ingush A.S.S.E.; statistics] Checheno-Ingushskaia ASSR za 40 let; statisticheskii sbornik. Groznyi, Checheno-Ingushskoe knizhnoe izd-vo, 1960. 184 p. (MIRA 13:10) 1. Chechen-Ingush A.S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Checheno-Ingushskoy ASSR (for Grebenshchikov). (Chechen-Ingush A.S.S.R., -Statistics)

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#### CIA-RDP86-00513R001963110017-2

YUDOV, A.Z.

Savings accumulated by the Leningrad locomotive engineers: 3,600 kolowatt-hours in 9 months. Elek. i tepl. tiaga 9 no.ll: 9-11 N '65. (MIRA 19:1)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela depo Leningrad-Passazhirskiy-Moskovskiy.

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#### CIA-RDP86-00513R001963110017-2

- 8(6) SOV/112-59-4-7002 Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 82 (USSR) AUTHOR: Yudov, M. F. TITLE: Results of Studying Electrodynamic Forces in Stator Windings of Hydroelectric Generators and High-Power Synchronous Motors PERIODICAL: V sb.: Eksperim.izuch. mekhan. usiliy v gidrogeneratorakh. M.-L., Gosenergoizdat, 1957, pp 45-69 ABSTRACT: Results of analytical and experimental studies of electrodynamic forces in the stator windings of hydroelectric generators and high-power synchronous motors are presented. Methods of an experimental investigation with strain-gauge elements and a special deformation primary element, and also with a high-speed cinema filming are described. The experimental resultshow that the deformation and vibration of stator-winding ends are proportional to the square of the stator current and that their values are of the same order as the estimated values. On various transient conditions the insulation Card 1/2

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TITLE:	Experimental Invastigation of Deformation and Vibration of Stator Windings (Eksperimental noye izucheniye deformatsiy i vibratsiy obmotok statorov)
PERIODICAL:	Elektrichestvo, 1958, Nr 12, pp 39 - 43 (USSR)
ABSTRACT :	Here the results of experiments are given by which deformation and vibration of stator windings of generators driven by hydro-electric engines and high tension electromotors are investigated. These investigations were carried out by the author in the VNIIE MES. Works were recently carried out by the VNIIE for the establishment of the hecessary instruments and for the elaboration of a method for the investigation of the results of the influence of electro-dynamic forces on the stators of generators and synchronous electromotors. The deformation of surface layers of the insulation and the displacement (vibrations) of the front parts of the winding as to the spacer of the transducer steel in the body of the stator were measured. First of clighted the body of the
Card 1/3	stator were measured. First of all the rods were investighted which are near the limit of the phase zone (the outer rods

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Experimental Investigation of Deformation and Vibration SOV/105-58-12-9/28 of Stator Windings

in each phase), as they are stressed by the highest electrodynamic forces. (Refs 1,2,3). Deformation and vibration were measured with the help of tensors of wire and of tensometric amplifier installations of two types which were developed in the ORGRES and in the Laboratoriya issledovaniya napryazheniy Instituta Hashinovedeniya Akademii nauk SSSR (Laboratory for Tension Investigations at the Machinery Building Institute of the Academy of Sciences of the USSR). A high-speed motion picture was also used to measure the vibrations of the winding of the electromotor. The investigations show that it is suitable to complete the mathematical analysis by test data. It proved to be advantageous to use a tencometric device for the investigation of the deformation and vibration and high speed motion picture cameras for measuring vibrations. It was found that the deformations of insulation and the vibrations of the front parts of the stator windings, which were observed at differently operating generators, are unimportant. There are 3 figures, 3 tables, and 11 references, 8 of which are Soviet.

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TITLE:	Vibrations and Deformations of the Stator Windings of a Shock Oscillator of the Type TI-75-2 (Vibratsii i deformatsii obmotki statora udarnogo generatora tipa TI-75-2)
PERIODICAL:	Elektrichestvo, 1959, Nr 6, pp 86 - 89 (USSR)
ABSTRACT:	These investigations were carried out at the Vsesoyuznyy nauch- no-issledovatel'skiy institut elektroenergetiki (All-Union Scientific Research Institute of Electric Engineering), the factor tory "Elektrosila"; the Leningradskiy filial VEI im. Lenina (Leningrad Branch of the VEI imeni Lenin) and the Lenenerge. It was intended to study the vibrations and deformations of the stator winding under different kinds of connection and under differing short-circuit currents. The shock oscillator under investigation was intended to serve in the testing of the com- mutation apparatus. In these tests, the stator windings were connected in star, delta and zigzag. The shock oscillator has been produced by the factory "Elektrosila", with a nominal voltage of 8.5 kv, permitting maximum voltages of 11 kv. The maximum admissible current under symmetrical short-circuit e
Gard 1/2	quals 120 ka. The investigations showed that from the viewpoint

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Vibrations and Deformations of the Stator Windings SOV/105-59-6-20/28 of a Shock Oscillator of the Type TI-75-2 of the mechanical effects on the aggregate, the star and delta connection are to be preferred. A zigzag connection should be used only in cases, where the required short-circuit power cannot be reached in star or delta connection, in which case the stator current should not exceed 80 ka max. It was found in the investigations that 1) in order to minimize the deformation of the insulation of the coll rods in the edge lamination packate the design of the shock oscillator must be improved as as t give a tighter fastening of the rods in this section. The must ing of the front flanges must also be changed in order to come the transmission of forces from touching massive vibrating parts. The choice of economical methods of fastening the wirtur must be made on the basis of tests on specially designed and constructed models of front flange fastenings of statur windings. There are 4 figures and 2 references, 1 of which is Soviet. ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki (All-Union Scientific Research Institute of Electric Engineering SUBMITTED: October 11, 1958 Card 2/2

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HUDOV, M.J.
Jatal trucheal hemorrhage after sinc chlorids burns. Vest. oporth. 21 no.4:92-93 Jl-Ag '59. (HIRA 12:10)
1. Iz Loringologicheskogo otdeleniya gorodskoy bol'nitsy No.7 Konsonol'ska-na-Arure. (TRACHEA wis. & inj.) (ZINC eff., inj.) (CHLORIDES eff., inj.)

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FOTIN, A.F., kand.med.nauk; YUDOV, N.N.; KOGAN, R.P.

Malignant nonspecific gramulomas of the nose. Vest. otorin. (MIRA 15:1) no.6:43-50 161.

l. Iz kliniki bolezney ukha, nosa i gorla (dir. - deystvitel'nyy chlen AMN SSSR prof. B.S. Preobrazhenskiy) II Moskovskogo mediteinskogo instituta i 1-y moskovskoy klinicheskoy bol'nitsy imeni N.I. Pirogova.

(HODGKIN'S DISEASE) (NOSE-CANGER)

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YUDOF, N. H.

Combined treatment of laryngeal cancer. Vest. otorin. no.2:50-53 (MIRA 15:12)

1. Iz kliniki bolezney ukha, nosa i gorla (zav. - deystvitel'nyy chlen AMN SSSR prof. B. S. Preobrazhenskiy) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova.

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(LARYNX-CANCER)

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YUDC	DV, N. N., aspirant
	Observations on the use of chemotherapeutic preparations in treating cancer of the larynx. Vest. otorin. no.3:57-63 '62. (MIRA 15:6)
	l. Iz kliniki bolezney ukha, nosa i gorla (dir deystvitel'nyy chlen AMN SSSR zasluzhenyy deyatel' nanki prof. B. S. Preobrazhenskiy) lechebnogo fakul'teta II Moskovskogo medi- teinskogo instituta imeni N. I. Pirogova.
	(LARYNX-CANCER) (CHEMOTHERAPY)
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Some characteristics of cancer of the laryngeal ventricle. Vestn. otorinolaring. 25 no.3:85-88 '63 (MIRA 17:1)

1. Iz kliniki bolezney ukha, nosa i gorla (dir. - deystritel'nyy chlen ANN SSSR zasluzhennyy deyatel' nauki prof. B.S. Preobrachenskiy ) lechelmogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

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COLIDIN, M.L., kand.tekhn.neuk; LINETSKIY, I.R., inzh.: SVUEDEL' (1), inzh.; YUDOV, Yu.M., inzh.; TATARENKO, D.T., inzh.: TOMASHEVSKAYA, L.D., inzh.

Automatic control systems with a closed circuit for the grinding classification of iron cres. Gor.zhur, no.4:58-63 Ap '64. (MIRA 17:4)

1. Dnepropetrovskiy metallurgicheskiy zavod-vtuz (for Gol'din). 2. Bazovaya uzotopnaya laboratoriya Khar'kovskogo soveta narodnogo khozyaystva (for Linetskiy). 3. Yuzhnyy gornoobogatitel'nyy kombinat (for Sverdel', Udov, Tatarenko, Tomashevskaya).

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Yudov, Yu. N.

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AUTHOR:

TITLE:

On using the method of geodetic intersections in exploring routes

PERIODICAL: Referativnyy zhurnal, Geodeziya, no. 1, 1953, 17, abstract 1.52.109 ("Tr. Rostovsk. inzh.-stroit. in-ta", 1962, no. 20, 67 - 76)

TEXT: In geodetic operations for exploring the routes of automobile roads, linear measurements with a 20-m steel band under very difficult locality conditions (ravines, swamps, etc.) require a rather large amount of work. These operations are simplified considerably if the method of geodetic intersections proposed by A. I. Durnev is used for running 5 - 10 km long tying traverses and for traversing "variants". It is pointed out that lengths of sides of a traverse line in this case should be, on an average, not less than 300 m, and angles at auxiliary points not less than  $18^{\circ}$ . A field team should consist of 4 - 5 people and should be equipped with the same equipment and instruments as in running theodolite traverses. Recommendations are given as to performing field and office works. It is noted that while using the method of geodetic interse

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CIA-RDP86-00513R001963110017-2 "APPROVED FOR RELEASE: 03/15/2001 . . . . يعاده البوراني s/270/63/000/001/003/024 A001/A101 On using the method of geodetic intersections in ... errors in angular measurements are discovered very soon, which is not the case in theodolite traverses where detecting such errors presents a difficult problem. N. Yakovlev [Abstracter's note: Complete translation] Card 2/2

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		125
Acc	L 05895-67 EWT(m) NR: AR6031251 (A) SOURCE COED: UR/0081/66/000/011/M026/M026	
AL	THOR: Kravchenko, I. V.; Vlasova, M. T.; Yudovich, B. E.; Krykhtin, G. S.; rillov, Yu. D.; Turkot, I. M.; Shorokh, L. N.; Bugaychuk, A. V.	
TI' Pla	TLE; The production of a quick-hardening cement at a Zdolbunov Cement-Slate	
	$\sim$ $\sim$ $\sim$ $\sim$	
SO	URCE: Ref. zh. Khimiya, Part II, Abs. 11M192	o.
RE no.	F SOURCE: Nauchn. soobshch. <u>Gos. Vses. ni. in-t tsementn. prom-sti,</u> 20(51), 1965, 36-41	
ТО	PIC TAGS: cement, quick hardening cement/Zdolbunovskiy Cement Slate Plant	
thr	STRACT: A technology was developed for manufacturing very quick-hardening ment with a hardening strength of 300 kg/cm <sup>2</sup> after one day, 450 kg/cm <sup>2</sup> after ee days, and 700 kg/cm <sup>2</sup> after 28 days. At the Zdolbunov Cement-Slate Plant base mixture is made from hard shalk, alar work l	
	base mixture is made from hard chalk, clay, and loams, containing a consider- e quantity of large-crystal quartz; calcining was conducted in rotating furnaces,	
118	and 170 m long. The physicochemical properties of the base components were	(2 L
stu	died, and the effect of the following factors on the cement strength was analyzed:	201 C
:	in the cement strength was analyzed:	<i>1</i> .
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components The reactivity	f grinding the clinker, and the reactivity of the of the base mixtures was found to be low, since $30^{-1}$ form of quartz particles larger than $15 \mu$ . The cross-	
The best results with respective obtained with clinkers contained and $p = 1, 2-1, 4$ . The requisison $3500-4000 \text{ cm}^2/\text{g}$ , while the the clinker in a solid fuel. If the temperature of the clinker	tured slurry showed large quartz crystals, $\leq 250 \mu$ . to cement strength and furnace productivity were by $55-63\%$ C <sub>3</sub> S and $7-8\%$ C <sub>3</sub> A when $n = 2, 3-26$ , red cement strength was obtained when the specific specific surface should be 5000 cm <sup>2</sup> /g when calcining fills, operating in open or closed cycles can be used: r being fed into the mill should not exceed $70-80^{\circ}$ in second case, and 100° at the outlet from the mill.	
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# MAPPROVED FOR RELEASE: 03/15/2001 CLA-RDP86-00513R001963110017-2 KORSHUNOV, Lev Petrovich. Prinimal uchastiye SEVAST'IANOV, N. B., kand. tekhn. nuk, dots.; IANFOVJCH, V.A., insh., retsenzent; YUDVICH, B.S., kand. tekhn., nuk, retsenzent; TCCODIN, L.L., nauchnyy-red.; SMIRNOV, Yu.I., red.; CHISTIAKOVA, R.K., tekhn. red. [Power systems of fishing travlers]Energeticheskie ustanovki rybolovnykh traulerov. Leningrad, Sudpromgiz, 1963. 295 p. (MIRA 16:4) (Fishing boats)

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KIVIMYAGI, E.A.; YUDOVICH, E.A. Amazine treatment of patients with schizophrenia suffering from pulmonary tuberculosis. Zhur.nevr.i psikh. 61 no.212.7-250 '61. (KiAA Lu:c) 1. Rynzanskaya psikhonevrologioheskaya bol'nitsa (glavnyy vrach V.V.TSarichenko, vypolnena pod rukovodstvom prof. A.K.Strelyukhina). (TURERCULOSIS) (SCHIZOPHRENIA) (CHLORPROMAZINE)

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generation and when when a contract of the statement of the statement of the statement of the statement of the High-strength concrete from especially quick-marierie . · 

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 LURIYA, Aleksandr Romanovich; TUDOVICH, Faina Yakovlevna; ZAOIK, L.V., redaktor; PETROVA, M.D., 'takhnichéskiy' redaktor.
 [Speech and the development of psychological processes in the ohild; experimental research] Rech' i rasvitie psikhicheskikh protsessov u rebenka; eksperimental'noe issledovanie. Noskra, isd-vo Arademii pedagog. nauk REFER, 1956. 92 p. (WLRA 9:5) (CHILP STUDY) (SPEECH)

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8/203/61/001/005/014/028 A006/A101

AUTHORS:	Ben'kova, N. P., Yudovich, L. A.	
TITLE:	Diurnal variations in the occurrence of blackouts according to data of the IGY	
PERIODICAL:	Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 725 - 729	
TEXT: 41 ionospher currence was of the IGY. were plotted geomagnetic ovals, whos the pole, t polar coord	The authors investigated the distribution of blackouts from data of ric stations on the northern hemisphere. The maximum of blackout re- s determined for each station during the winter, summer and equinoxes To reveal general regularities of blackout maxima isochrone systems d and maximum recurrence was registered from data of the IGY. In the coordinates the isochrones of maximum recurrence for all seasons were e shape was controlled by the zone of aurora polaris. When approaching he time of the maximum is shifted from the night to the day hours. In inates (local geomagnetic time serves as azimuth and the reduced geo- titude as a radius) the dependence of the time of blackout recurrence the reduced geomagnetic latitude has a spiral shape. A comparison with spiralshaped distributions of magnetic activity during corresponding	
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	n the occurrence of	<b>5/203/61/001/005/014/028</b> A006/A101
urrence. With high dvity decreases. The previous data; this ervations from diffe	ame period of time shows, that is by 2 - 3 hours in advance o er latitudes the delay of black he results obtained by the pres is possibly due to the fact th erent periods had been compared Soviet-bloc and 4 non-Soviet-bl	I the maximum of blackout re- outs in respect to magnetic ac- ent study are different from at magnetic and ionospheric pr-
June 9 references: 5 a	sovies-bioe and 4 non-Soviet-bi	DC.
ASSOCIATION: Institut AN SSSR	(Institute of Terrestrial Magne Radiowave, AS USSR)	4
ASSOCIATION: Institut AN SSSR	zemnogo magnetizma, ionosfery (Institute of Terrestrial Magne Radiowave, AS USSR)	4

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AUTHOR:

TITLE:

Yudovich, L. A.

8/203/62/002/006/011/020 A160/A101

The magnetic activity on the geomagnetic poles during the IGY

PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no. 6, 1962, 1113 - 1121

TEXT: The author investigates the magnetic disturbances in the northern and southern geomagnetic-pole districts for one and the same time interval. The investigation is based on observation data of the Vostok and Tula stations, gathered from January to Gotober 1958. At the Tula station, the hourly values of the Q-index of the magnetic activity were taken from a table with 15-minute Q-indexes by a method described elsewhere. The mentioned tables were obtained from MUA E 2 (MTsD E2). At the Vostok station, the hourly Q-indexes were taken directly from a magnetogram kept at MTsD E2. Since the regular observalyzes the data of the variational observations carried out at the Vostok and Tula stations from January to October 1958. Figure 1 shows the diurnal variations of the intensity of magnetic perturbations in relation to the universal

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internations were and another products and the construction of the

YUDOVICH, L.A.	
Comparison of P-region ionization levels in the Arctic and Antarctic. Geomag. 1 cer. 5 no.2:307-311 Movies 145.	
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planetary magnetic activity increases. In criter tion of the equatorial bourdary of the region of as a function of the intensity of planetary magne chains of stations locates along meridians in the Southern Howiepheres were cousen. The presence in the ionization was detersined by analysis of fucharta. there was shomal us ionization when the regular terms cal frequency for the F2 layer on quiet days for the  $\kappa$ interrupted. The boundary of the anomalous ionization est to the poles on magnetically quiet days. The surge cident with the geomagnetic parallels, but with the fact. tude accounting for deviation of the Earth's magine. dipole field. SUB CODE: 24/ SUBH DATE: 13Apr65/ CR., FIL: ATD PPESS: 4183 \_ r \*

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		cus ionization at the stations of the rs UT which coincide approximately with
hours of mall.	the day. However, the	o correlation coefficient is relatively
auroras is shown	$(65^{\circ} \leq \emptyset \leq 78^{\circ})$ and state	ions of the polar region ( $\emptyset > 30^\circ$ ). It
high lat tionshir	titudes in the northern	hemisphere, particularly the interrela-
STRACT :	An investigation was ma	the state of the s
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URCE: C	Geomagnetizm i aeronomiz	ya, v. 6, no. 2, 1966, 389-392
		2 at stations of the high latitudes of the northern
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-	Kiyanovskiy, M. P.; Yud	
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a correlation be auroral zone can pothesis of a un layer of the en- tion coefficient the maximum value. stations. Orig	ppearance of the maximum values $f_0F2_a$ . The existence of stween $f_0F2$ of stations of the polar region and the h serve as an indirect argument in support of the hy- hiform nature of the anomalous ionization of the F2 tire region of latitudes $\emptyset > 60^\circ$ . The highest correla- ts are observed at those hours UT which correspond to hes $f_0F2_a$ in the diurnal changes at a compared pair of . art. has: 1 figure and 1 table. [JPRS: 38,677]	
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WUDDV.C.H., S.Z., CHERMAREV, A.P., YUDDVICH' S.Z., kandidat tekhnicheskikh nauk; TRAVININ, V.I Ouide rounds on small-shape mills. Metallurg no.11:27-29 H '56. (MIRA 10:1) 1. Deystvitel'nyy chlen Akademi nauk USSR (for Onekmarev). 2. Shachal'nik prokatnoy laboratorii (for Yudovich), 3. Inzhener prokatncy laboratoii savoda "Ineprespetastal'."(for Travinin). (Rolling mills)

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YUDOVICH, 5 Z	133-10-16/26
AUTHOR:	Yudovich, S. Z., Candidate of Technical Sciences'and Kanev, M.S., Engineer
CITIE:	Causes of the "Wrinkle" Formation on Round Sections Rolled in a Heavy Section Mill. (Prichiny Obrazovaniya Morshchin Na Kruglom Profile v Krupnosortnom Stane).
PERIODICAL	L: Stalu, 1957, No.10, pp. 924-928 (USSR).
ABSTRACT: Card 1/4	During the control of metal rolled on a mill 825 into rounds of 140 mm diameter and larger from steels WX15, WX15C, 12 - 20 XH3A, L2-20X2H4A and others, surface defects in the form of wrinkles, cracks and hair cracks were observed. The characteristic distribution of defects and the appearance of wrinkles are shown in Figures 1 and 2 respectively. The calibration of roll pass used is shown in Figures 3 and 4. On an analysis of the control materials it was found that the proportion of surface defects increases with increasing diameter of the profile rolled. Investigation of various factors which could influence the formation of defects indicated that increasing temperature (within permissible limits) improves surface quality, water cooling of rolls and
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133-10-16/26

Causes of the "Wrinkle" Formation on Round Sections (Cont.)

change in the design of 4 and 5 roll passes (Fig. 5) improved the surface quality, the presence of scale, particularly on rolling on convex passes (first stand) had a negative influence. Rolling in scale is shown in Figure 6. The callibration of the second stand was found to have a substantial influence on the surface quality. For this reason a new callibration of the second stand was developed by V. P. Sapronov, Ing., under the direction of M. I. Lobarev, Ing., (Fig. 8), namely two passes oval and round were replaced by 4 passes: romb - square - oval - round. On rolling with the new callibration the proportion of defects (wrinkles) decreased from the previous 1.9% to 0.6%. In order to check the influence of the deformation process on the formation of surface defects, an ingot with cast in rods (Fig. 9) to identify an individual ingot face (a, a,) was rolled. After passing the fifth pass of the first stand, templets 400 mm long were taken, specimens from the finished product (rounds 150 mm) were also taken. It was found that: a) during rolling of square profiles, in the middle of the face the flow of metal in vertical and horizontal directions is approximately equal; on the face nearer to corners the flow of metal

Card 2/4

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133-10-16/26 Causes of the "Wrinkle" Formation on "Round Sections (Cont.) 

is mainly utilised for spread; b) on rolling square in an oval pass, the flow of metal towards the sides is particularly pronounced in the narrowing parts of the oval: rods of a and a faces obtained oval shape, little changes during rolling of these faces in the round pass, despite that in this direction (in the apexes of the pass) the deformation was at a maximum. It is concluded that surface defects in the form of cracks, hair cracks but mainly wrinkles can be of a metallurgical and rolling origin. Surface defects of a rolling origin as a rule are regularly situated in certain places of the finished product. The basic causes of the formation of these defects are: a) scale formed during the heating of metal which is rolled into surface wrinkles and not only prevents their leveling down in subsequent passes but penetrates deeper into the metal; b) callibration of roll passes from which the cleanliness of the finished product mainly depends. Card 3/4 There are 9 figures.

ASSOCIATION: Dneprospetsstal' Works. (Zavod Dneprospetsstal')



TITLE: PERIODICAL:	The Use of Protective Ccatings for Minimizing Metal De- carbonization. (Primeneniye zashchitnykh pokrytiy dlya unen' sheniya obezuglerozhivaniya metalla, Russian). Stal', 1957, Vol 17, Nr 1, pp 69 - 71 (U.S.S.R.) Received: 5 / 1957 Reviewed: 5 / 1957
ABSTRACT :	In order to decrease the deficit caused by not adhering to the tolerance on the occasion of decarbonizing the billet stay in the heating furnaces and in the various furnace zones, the heat- ing temperature of the metal, the composition of furnace temper- ature, and the depth of the decarbonized layer in the billet before heating are investigated. According to results obtained from this investigations a new technology of steel production was introduced which, although decreasing waste considerably, was not able to prevent it entirely. From the additionally de- veloped method using several kinds of protective coatings the
<b>Card</b> 1/2	cases in which sodium silicate coatings were used, showed positive results and were able to reduce waste nearly to mil. The experi- mental method, the behavior of the sodium silicate coating on the occasion of heating, the influence exercised by the protective coating on the intensity of decarbonization at difference temper- atures, and the influence exercised by protective coatings on the forming of scale is described. The application of the pro-

	The Use of Protecting Coatings for Minimizing Metal Decarbonization tective coating before heating by means of sodium silicate re- motes a more even distribution of decarbonization according to the diameter as in the case of metals without coating. Coating, therefore cannot prevent decarbonization on the occasion of a long stay of the metal in the furnace. The application of pro- chromium steels. After infroduction of the method of protective coatings into industry, the amount of waste with respect to de- carbonization was reduced by about the 10-fold.
ASSOCIATION: PRESENTED BY: SUBMITTED: AVAILABLE:	"Dneprospetsstal)" Plant.
Card 2/2	Library of Congress.

	SOV/137-58-9-19009
ranslation	from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 124 (USSR)
AUTHORS:	Starodubov, K.F., Tregubenko, A.F., Yudovich, S.Z., Kolesnik, B.P., Lobarev, M.I.
TITLE:	Combatting Decarburization by Induction Heating of Alloy-steel Billets Before Rolling (Primeneniye induktsionnogo nagreva zagotovok legirovannoy stali pered prokatkoy v tselyakh bor by s obezuglerozhivaniyem)
BSTRACT:	L: V sb. Metallovedeniye i term. obrabotka. Moscow, Metallur- gizdat, 1958, pp 39-49 A description is offered of experiments in induction heating in advance of rolling without decarburization of the billets (105x105x1000 mm) made of 60S2A, ShKh15 and U12A steels. It is established that two-frequency heating (50 cps up to the Curie magnetic-transformation point and then 500 cps) is opti-

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Combatting Decarburization by Induction H	eating of Alloy-steel	(cont.)
heating time. The time required to heat th 170 seconds in the case of 60S2A; 250 seco ShKh15 steel to 1150°. Under these conditi the section of the billet came to 200 and 12 282 kwh/t of electrical energy consumed. showed decarburization and oxidation on the ing. The structure of the ShKh15 steel did curred in the 60S2A steel (by 2 or 3 points) industrial application of induction heating u heated to 700-800° in gas furnaces and the high-frequency current.	onds were required t ons, the temperatur 0°, respectively, wi Metallographic inves e surface of the bille not change, but grain . A design is being	o heat e drop across th 188 and tigation t to be lack- a growth oc- developed for
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<ol> <li>Induction generatorsDesign 2. Inducti</li> <li>SteelInduction heating</li> </ol>	ion generatorsPerfo	rmance
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CIA-RDP86-00513R001963110017-2

3/148/61/000/006/011/013 E073/E435 AUTHORS : Tovpenets, Ye.S. and Yudovich, S.Z. On the formation of flakes in steel during the process TITLE: of investigation of the steel for flakes PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, 1961, No.6, pp.134-138 Several authors pointed out that flakes may form in steel TEXT: during the process of investigation for flakes and as a result of that perfectly good metal, which has a high sensitivity to the formation of flakes, may be scrapped. Therefore, present methods of testing steel for flakes have to be changed and for this purpose additional experiments are necessary. The here described experiments were carried out with the steels 18XMBA (18KhNVA) and WX15 (ShKh15). Specimens were cut, after the termination of the rolling, from blanks of the following cross-sections: 152 x 152 mm, 150 x 150 mm, 125 x 125 mm and 150 mm dia., they were notched to half the cross-section in the hot state and air and water quenched to 20°C. Half of the specimens of each batch were fractured by means of a 1/2-ton hammer the second day after Card 1/4 A STATE OF A

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On the formation of flakes

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cooling and the most characteristic fractures were photographed. The specimens which had not fractured were notched with an acetylene flame and again fractured. Two to three days later the second half of the specimens was subjected to the following heat treatment: high temperature tempering at 700°C for 4 hours followed by slow cooling in the furnace to 400-600°C and then in The total duration of the tempering was 16 to 20 hours. The specimens which were previously tested under the hammer were subjected to the same tempering conditions so as to facilitate cutting of discs for flaks investigations. 25 mm discs were cut from the middle part of the specimen and from the individual discs metallographic specimens were cut for determining the microstructure, hardness and microhardness. The results have shown that all the specimens from certain heats of both steels were highly insensitive to flake formation. Even after water quenching and fracturing under the hammer they showed cracks but not flakes. The cause of differing sensitivities to flake formation is attributed to differing hydrogen contents of the Specimens of both steels from other heats had a higher steel. Card 2/4

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S/148/61/000/006/011/013 On the formation of flakes ... B073/E435 sensitivity to the conditions of cooling after rolling: for one steel, water quenched specimens showed large flakes and quenching cracks, whilst air quenched specimens only showed fine flakes and specimens which were tempered at 700°C after water quenching showed quenching cracks but no flakes, The specimens of the other steel from a specific heat showed flakes regardless of the heat treatment conditions. The following conclusions are arrived at: 1. Formation of flakes in steel under the influence of mechanical effects is only possible if it contains microvolumes of increased brittleness (martensite). 2. Mechanical effects during taking and treatment of the specimens increases the possibility of flake formation. 3. For steels that are sensitive to fleke formation, the method of taking specimens for flake investigations has to be changed so as to reduce the mechanical effects on the metal. 4. If flakes detected in the specimens have not otherwise shown up, the metal should be additionally heat treated (high temperature tempering or annealing) so as to eliminate the foci of increased brittleness of the metal. Card 3/4

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ASSOCIATIONS	Donetskiy industria. Zaporozhskiy mashin (Donets Industrial Zaporozhe Engineerin	ostroitel'nyy institut Institute and	
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NATAFOY, B.S.; SOEDKO, L.N.; BARZIY, V.K.; FILONOY, V.A. [deceased]; GURSKIY,G.L.;
IOFYZ, M.H.; LETCHFORD, N.I.; <u>JUDDVICH, S.Z.</u>
Improving the stampability of nonaging OBIU sheet steel. Stal' 23
mo.1:34-86 Ja '63. (MIRA 16:2)
1. Zaporoshskiy mashinostoritel'nyy institut, zavod "Zaporoshstal'"
i Gor'kovskiy avtomobil'nyy zavod.
(Sheet steel) (Drawing (Metalwork))

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