Obrabatvyayemost' staley v svyazi s usloviyami termicheskoy obrabotki i mikrostrukturoy of metals. Machinability of steels as a function of abrasive properties and of the temperature. Wearing of cutting tools during steel machining.	
Ch. IV Effect of the Mechanical Properties of Steels on the Cutting Speed of Grinding 100-1 con the cutting speed.	113
Ch. V Machinability of Steels in Relation to the Cleanness of Finished Surfaces Effect of the conditions of heat treatment and of the microstructure of steels on the cleanness of finished surfaces. Medium-carbon structural steels. Low-carbon structural steel 15. High-carbon tool steel U12. Effect of the structure and composition of steels on the cleanness of finished surfaces. Evaluation of the machinability of metals in relation to the cleanness of finished surfaces, based on the analysis of curves Hcp = f (v). Formation of roughness on finished surfaces. Ch. VI Machinability of Steels in Relation to the Cutting Pressure Effect of the conditions of heat treatment and of the microstructure of steels on the cutting pressure. Cutting tool	
4/6	

pressure and mechanical properties of steels. Cutting pressure in relation to the wear of cutting tools. Ch. VII Industrial Control and Practice on the Basis of the Investigation of Machinability Expediency of high-temperature tempering for improving the machinability of low-carbon steels. Chrome steel 40x. Carbon steel 40. Conditions of heat treatment and of hardness assuring a high machinability of chrome-steel 40x. Pinions. Some examples of machining medium—and high-carbon steels. Machinability of low-carbon steels in industrial and steels.	443 - I PAGES 165-193
liminary heat treatment. Ch. VIII Machinability of Steels during High-Speed Cutting Theory. Experimental investigations and their results. Bibliography Appendix I Fundamental Data on the Properties and Machinability of the Steels Investigated (Tables) Appendix II Reference Data on the Relative Machinability of Structural Steels (Mobbles)	194-212 213-219 220-244 245-253
5/6	

.

Obrabatvyayemost' staley v svyazi s usloviyami termicheskoy obrabotki i mikrostrukturoy

AID 443 - I

Purpose: This book is intended for engineers and technicians in machine-building plants and workers in scientific research institutes.
Facilities: The Laboratory of Metal Cutting and the Machine Shops of the Gor'kiy Automobile Plant
No. of Russian and Slavic References: Total 171, 153 Russian.
Available: Library of Congress.

6/6

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

__1953, Uncl.

1, FELD'SHTEYN YE.I.
2. USSR (600)
4. Tool Steel
7. Machinability of high-speed steel. Stan. i instr. 24, no.1, 1953.

Wearing of process of cutting teols during the machining of steel. Nest. mash. 37 no.3:41-45 Mr '53.

1. Laboratoriya rezaniya metallov Gor'kovskogo Avtomobil'nogo zavoda im. Molotova. (Machine tools)

Emmanu11

Name: FEL'DSHTEYN, ... Iosifovich

Dissertation:

Investigation of the Workability of Steel in Connection with the Conditions of Heat Treatment and

Microstructure

Degree: Doc Tech Sci

Affiliation: Gor'kiy Automobile Plant imeni

Molotov

17 Jan 55, Council of the Leningrad Polytechnical Inst imeni Kalinin Defense Date, Place:

Certification Date: 28 Apr 56

Source: BMV0 4/57

FELDSHTEYN, E.I.

USSR Engineering - Metal cutting

Card 1/1

Pub. 12 - 6/16

Authors

Stigneev, IA. F.; Fel'dshteyn, E. I.; Bol'shakov, V. M.; and

Title

Troitskaya, D. N. Troitskaya, D. Troitskaya, D. Troitskaya, D. Troitskaya, D. Troitskaya, D. Troitskaya, D. Troitskaya,

Periodical

Avt. trakt. prom. 7, 23-26, July 1954

Abstract

The article deals with high-speed cutting, and turning of metals at increased feeds on multi-cutter semi-automatic machines, in accordance with methods developed by V. Kolesov. Diagrams; tables; drawings; illustrations.

Institution:

Submitted

FEL'DSHTEYN, H.I., kandidat tekhnicheskikh nauk.

On structural changes in the metal of chips produced by high speed cutting. Metalleved. i ebr.met. ne.1:51-53 Jl *55. (MIRA 9:7)

l.Laberateriya resamiya metalev Gor'kovskege avtomebil'mege saveda imeni Meleteva. (Metal cutting) (Metallegraphy)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

THE EXPERIMENT OF SERVICE PROPERTY OF SERVICE SERVICES.

FEL' DSHTEYN, E. 1.

USSR/ Miscellaneous - Industrial processes

Card 1/1

Pub. 103 - 7/20

Authors

Khelimskiy, I. E., and Fel'dshteyn, E. I.

Title

Prevention and correction of flaws during thermal treatment of cutting tools

Periodical

Stan. 1 instr. 26/3, 22-25, Mar 1955

Abstract

Ways and means are discussed for the prevention and correction of flaws originating during thermal treatment of metal cutting tools. The quality of the metal and proper thermal treatment are the two basic factors determining the strength of the given tool. Tables; drawings.

institution :

1

Submitted

AUTHOR: Fel'dshteyn, E.I. and Putov, V.M.

121-2-11/20

TITIE:

Improvement of the form in grinding the web of twist drills. (Usovershenstvovaniye formy podtochki peremychki spiral'nykh sverl)

PERIODICAL: "Stanki i Instrument" (Machine Tools and Tools), 1957, No.2, pp. 34 - 35 (U.S.S.R.)

ABSTRACT: Tests carried cut by the Gorki Motor Car Plant (Gor'kov-skiy Avtozavod) imeni Molotova to study several forms of grinding the web in twist drills are reported. A modified form of grinding was proposed by Zhilov ("Stanki i Instrument" No.2, 1954). Compared with the standard form (FOCT-2322-43), the modified form reduces the axial force and the torque to 47 and 61% respectively. Nevertheless, the tool life is not increased but reduced to 62%. The new form is based on Oxford ("Machinist" London, March 27, 1954). According to the Gorki tests the tool life has been increased by 38% compared with the standard form. Simultaneously the axial force and torque are reduced to 65 and 89%. respectively. Producing the modified form by hand, following the cutting edge contour is not difficult for a skilled tool grinder. Machine grinding has not been successful owing to inaccuracies of the web position.

1/2 The effectiveness of the new form is very sensitive to its

Improvement of the form in grinding the web of twist drills. (Cont.) 121-2-11/20

correct execution. A special fixture for a universal tool grinder has been made and is illustrated. The fixture contains two rotatable mirror screens so situated that the grinder can observe the drill end during grinding. A centre line on one of the mirrors makes it possible to position the web correctly in relation to the grinding wheel. The procedure for using this fixture is described in detail.

There are 5 figures, including 2 photographs, and 1 table. ASSOCIATION: 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

AUTHORS: Fel'dshteyn, E.I., Dr. of Technical Sciences, Lebedinskiy, N.P., I. V. Trush, Kazantsev, V. S., Engineers. 129-7-9/16

TITLE: Investigation of the influence of carbide non-uniformity on the grinding properties of the Steel P18.

(Issledovaniye vliyaniya karbidnoy neodnorodnosti na shlifuyemost' stali R18).

PERIODICAL: "Metallovedenie i Obrabotka Metallov" (Metallurgy and Metal Treatment, 1957, No.7, pp.39-42 (U.S.S.R.)

ABSTRACT: The here described investigations were prompted by inconsistencies in the grinding properties of various components of this high speed steel which were heat treated to the same hardness. A rod material of 70 mm dia. was chosen which contained: 0.73% C; 4.0% Cr; 18.56% W; 1.04% V; 0.12% Si; 0.24% Mn; 0.22% Ni; 0.012% S; 0.016% P. For obtaining specimens with various carbide non-uniformities two 50 mm dia. specimens were produced by removing the top layer on a lathe, whilst another two groups of specimens were first forged to 55 mm dia. and then machined to 50 and 45 mm dia. respectively. To obtain a coarse carbide network, cast specimens were produced by re-smelting in a high frequency furnace. The results of the metallographic investigations are entered in Table 1, whilst the results

Investigation of the influence of carbide non-uniformity on the grinding properties of the Steel Pl8. (Cont.) of the grinding performance on the individual specimens are entered in Table 2. It was established that the carbide non-uniformity in this Pl8 steel influences the specific rate of removal of the metal during grinding and also the surface quality; the surface quality and the rate of removal are higher in specimens with lower degrees of carbide non-uniformity. It is, therefore, essential to ensure the smallest possible carbide non-uniformity in high speed steel tools so as to obtain better cutting properties as well as higher production in the tool manufacturing process. There are 2 figures, 2 tables, no references.

ASSOCIATION: Gorky Automobile Works imeni V. M. Molotov. (Gor'kovskiy Avtomobil'nyy Zavod imeni V. M. Molotova).

AVAILABLE:

Card 2/2

SOV/122-58-5-16/26

AUTHOR: Fel'dshteyn, E.I., Doctor of Technical Sciences, Professor

TITLE: Cutting Forces in the Turning of Aluminium Alloys (Sily

rezaniya pri tochenii alyuminiyevykh splavov)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 5, pp 62 - 65 (USSR)

ABSTRACT: Tests carried out at the metal-cutting laboratory of the Gor'kovskiy avtomobil'nyy zavod (Gorki Motorcar Plant) and Belorusskiy politekhnicheskiy institut (Belorusskiy Polytechnic Institute) are reported, concerned with the tangential cutting force and the chip contraction factor in the cutting of several aluminium alloys and a chromium steel. The force was measured with a capacity-type dynamometer, the contraction factor, by the weighing method. Carbide tools were used in the face turning of "Silumin" Al4 (9 12% silicon), duralumin Dl (4.60% copper) and steel 40Kh (0.41 carbon and 1.04% chromium). Positive front clearance angles of 0, 10, and 25 were used. The cutting force is plotted against the cutting speed (up to 300 m/min), the depth of cut and the width of cut (Figures 1, 3 and 4, respectively). In aluminium alloy, as in steel, there is a speed of maximum force, most pronounced at zero front clearance angle. The force is proportional both to the Cardl/2depth and the width of the cut. The force in aluminium alloy

Cutting Forces in the Turning of Aluminium Alloys

1、1955年的基本的企工,提出自由的企业的企业的企业的企业的企业。

SOV/122-58-5-16/26

is about 1/4 of that in steel. Certain variations of chemical composition of the aluminium alloy were further investigated. A nickel content reduces the cutting force and so does a zinc content. The chip contraction factor is plotted against the cutting speed (Figure 6). Once again, a speed for maximum contraction is observed. A discussion of the results in relation to the deposition of the workpiece material on the cutting edge establishes the similarity of steel and aluminium and refutes the effect of temper-brittleness on the cutting force in steel. There are 6 figures, 2 tables and 4 Soviet references.

Card 2/2 1. Aluminum alloys-Machining 2. Chromium steel--Machining

3. Cutting tools--Performance

三年的關係是指揮發展了多數層的計

SOV/122-59-3-17/42

.Fal'dshtayn, E.I., Doctor of Technical Sciences, Professor, AUTHORS:

Naumov, B.I., Candidate of Technical Sciences, Konyashov, V.V., and Ryazanov, A.I.

TITLE: Machinability of Cold-Drawn Steels on Automatic Lathes

(Obrabatyvayemost! kholodnotyanutykh staley na tokarnykh

avtomatakh)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, pp 57-61 (USSR)

ABSTRACT: Turning and drilling trials were carried out on a number

of cold-drawn steels of types frequently turned on automatic lathes for making automobile components. The ends of the bars were face turned with varying rates of cross feed using a constant 5 mm width of cut. An average diameter, $d_{\rm cp}$, for which a constant speed of cutting for a given number of revolutions would show the same tool wear as with the variable cutting speed actually experienced, was calculated from formula (1). The index, k, in this formula is the tangent of the slope of the curve for tool life versus number of revolutions, when plotted on a logarithmic scale. Graphs of Figs 1 and 2 were

constructed for tool life (minutes) versus average cutting velocity (metres/min) for different steels and Card 1/3 different rates of cross feed. Using the cutting speed

SOV/122-59-3-17/42

Machinability of Cold-Drawn Steels on Automatic Lathes at which a tool life of 100 minutes was obtained with the A.12 steel, at any given rate of feed, as an index equal to 1, the relative machinability of other cold-drawn steels can be compared as shown in Table 1. Formulae (3) and (4) give an approximate relation between cutting speed, tool life and cross feed for face turning of the A.12 or A.20 steels. Drilling tests were carried out similarly, but in this case for 20 minute life until the drill had become blunted by 0.7 mm; again using the A.12 steel as an index of 1, other steels are compared as shown in Table 2. Formulae (5) and (6) relate cutting speed to drill life, drill diameter and rate of feed. The tangential force on tools with straight, stepped, convex and concave profiles was measured when face turning at a constant speed of 30 metres/min. The results, expressed as force (kg) per mm of tool width, are tabulated for different rates of feed for various cold-drawn steels in Table 3. Force for the A.12 steel is about 25% less than for all other steels. Ball-bearing quality steel, ShKh-15, gave the best class of surface finish at rates Card 2/3 of feed from 0.04 to 0.1 mm/rev. Finish deteriorates

(2) 利用品牌等等。等其我最高的政策的第三人称单位的政策。如果不可以

S 0V/122-59-3-17/42 Machinability of Cold-Drawn Steels on Automatic Lathes

with increasing cutting speed from 10 to 40 metres/minute and then begins to improve again at higher cutting speeds.
There are 6 figures, 3 tables and 5 Soviet references.

Card 3/3

GORETSKAYA, Zinsida Dmitriyevna, insh.; LARIN, M.N., doktor tekhn.nauk, retsensent; FEI'DSHFEYN, E.I., doktor tekhn.nauk, red.; CHERNOYA, Z.I., tekhn.red.

[Broaching with large feed] Protisgivanie s bol'shimi podachami. Moskva, Gos.nauchno-tekhn.isd-vo meshinostroit.lit-ry, 1960.
203 p. (NIRA 13:9)

(Broaching mechines)

PHASE I BOOK EXPLOITATION 80V/4434

- Fel'dshteyn, Emmanuil Iosifovich, Boris Ivanovich Naumov, Viktor Vasil'yevich Konyashov, and Leonid Alekseyevich Bykov
- Rezhimy rezaniya na tokarnykh avtomatakh (Cutting Regimes for Operations On Automatic Lathes) Moscow, Mashgiz, 1960. 329 p. Errata slip inserted. 13,000 copies printed.
- Managing Ed. for Literature on the Economics and Organization of Machine Building (Mashgiz): T. D. Saksaganskiy, Engineer; Ed.: I. I. Pinegin; Tech. Ed.: T. F. Sokolova.
- FURPOSE: This book is intended for the technicians, designers, machine-operation time standard setters and foremen of mechanical shops, and also for the setupmen of automatic lathes.
- COVERAGE: The book includes methods for calculating cutting regimes of single-and multiple-spindle automatic lathes. Reference data are given on recommended feeds and cutting speeds and on the kinematics and dynamics of the most popular models of automatic lathes. Standards for cams (of the multiple-spindle automatic lathes) and instructions for design (of single-spindle automatic lathes) are

Card 1/3

Cutting Regimes for Operations (Cont.) 807/4434 provided. The technique for calculations is illustrated with detailed examples. These data and standards are based on experimental studies conducted and put through practical tests at the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant). No personalities are mentioned. There are 22 references, all Soviet. TABLE OF CONTENTS: Foreword 3 Ch. I. Initial Data Basic principles of recommended methods for calculating cutting regimes 5 Recommended cutting speeds 10 Cutting forces in the operation of automatic lathes 21 Recommended feeds 25 Ch. II. Cutting Regimes of Multiple-Spindle Automatic Lathes 40 Main prerequisites for the rational use of multiplespindle automatic lathes 40 Methods for calculating cutting regimes 55 Reference data on cutting regimes 70 Examples for planning machining process and calculating cutting regimes 101 Card 2/3

41902

3/226/62/000/004/012/012

1003/1203

AUTHOR:

Fel'duntefu, E.l., sel'kevich, B.A., and Dechko, E.M.

TITLE:

Some problems of machining sintered iron-graphite powder materials

Padobical:

1.1600

Poroshkovaya metallurgiya, no.4, 1962, 105-114

The aim is to determine the optimum conditions for the turning of irongraphite powder materials. The investigations were carried out on busings of the above material sintered at 1050-1100°C in an atmosphere of hydrogen. The highest turning speed was attained with cutters containing a shall amount of cobalt. Naterials with a "ferrite + perlite" structure are much more easily machined than materials with a perlite structure. The shapes of the cutting edge and the depth of turning are also discussed. The most suitable alloy for the manufacture of cutters for turning the above materials are T30A4 and VK3M. The VK4 and VK6 alloys are considered to be the second best for this purpose. There are 10 figures and 1 table.

V

Card 1/2

S/226/62/000/004/012/012 1003/1203

Some problems of machining sintered...

ASSOCIATION:

Belorusskii politeihmicheskii institut, g. Winsk (The Belorussia

Polytochnic Institute, Mink)

SUBVITTED:

December 25, 1961

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412830(

S/276/63/000/004/004/007 A052/A126

AUTHORS:

Fel'dshteyn, E.I., Molochkov, A.V., Izrailevich, Ya.S., Korzhenevskiy, Z.I.

TITLE:

New method of tool cooling on gear-cutters

和前班任新新江市450年)台灣近日的港灣企業

PERIODICAL: Referativnyy shurnal, Tekhnologiya mashinostroyeniya, no. 4, 1963, 183 - 184, abstract 4Bl021. (Prom-st' Belorussii, no. 7 (50), 1962, 35 - 39)

TEXT: The atomizing of liquids in the form of a spray by means of compressed air has found its application in turning and milling operations. It prolongs considerably the service life of the tool whereas the liquid consumption decreases and makes up 100 - 700 g/hour for emulsion and 0.5 - 2 g/hour for oil. The results are reported of the introduction of tool cooling with atomized liquids on gear-milling and gear-shaping machines at the . Minsk spare part plant. The investigation has established that the introduction of this method prolongs the service life of the tool and cuts the sulfofraesoel consumption. This secures a yearly saving of 300 roubles per gear-milling machine and 150 roubles per gear-shaping machine.. A compara-Card 1/2

CONTRACTOR PRODUCTION OF THE PRODUCT OF THE PRODUCT

New method of tool cooling on gear-cutters

S/276/63/000/004/004/007 A052/A126

tive testing of three installations was carried out. The design of the Ivanovo textile institute was approved as the best installation securing a stable and easily controlled air mixture "torch". Seven sorts of lubricating-cooling liquid were tested in gear-milling. The best results with respect to the service life of the tool (an 1.5 increase) gives atomized anticorrosion water (0.3% sodium nitrite, 0.3% calcined soda, the balance water) at 2 kg/cm² air pressure and 600 - 700 g/hour liquid consumption. In gear-shaping the application of atomized anticorrosion water also prolongs the service life of the tool by a factor of 1.5 compared with sulfofraescel cooling (dropping jet). The installation for atomizing cooling liquids and the mixture design are described. There are 5 figures and 2 tables.

[Abstracter's note: Complete translation.]

Card 2/2

FELIDSHTEYN, Emmanuil Iosifovich, doktor tekhn. nauk, prof. [deceased]; KUZ'MICHENKO, G.A., red.

[Methodological establishment of the most favorable cutting conditions] Metodika naznacheniia naivygodneishikh rezhimov rezaniia. Minsk, Vysshaia shkola, 1963. 72 p.

(MIRA 17:10)

FEL'DEHTEYN, E.I., doktor tekhn. nauk, prof.

Conference of cutting-tool industry workers of White Russia.
Mashinostroitel' no.513 My '63. (MIRA 16:7)

(White Russia—Metal-cutting tools)

SHAGUN, V.I.; FEL'DSHTEYN, E.I.

Device for measuring internal threads. Ism. tekh. no.7:
7-10 J1 '63. (MIRA 16:8)

(Calipers)

FEL'IDSHTEIN, E.I., doktor tekim. nauk; MISHIN, P.A.; SOKOLOVA, Ye.I.;
FEIGIN, Z.E.

Sulfo-cyaniding of metal-cutting tools. Avt. prom. 29 no.4:
37-39 Ap '63.

1. Minskiy avtozavod.
(Case hardening)
(Metal-cutting tools)

(Metal-cutting tools)

3/121/63/000/002/007/010 D040/D112

AUTHORS:

Fel'dshteyn, E.I., Molochkov, A.V., Israilevich, Ya.S.

Korzhenevskiy, Z.I.

TITLE

Cooling gear cutting tools by sprayed fluid

VOL.M

PERIODICAL: Stanki i instrument, no. 12, 1963, 31-33

TEXT: Experiments conducted jointly by the Belorusakiy politekimicheskiy institut (Belorussian Polytechnic Institute) and the bazovaya zuboreznaya laboratoriya (Basic Gearcutting Laboratory) of the SNKh BSSR at the Minskiy tavod sapasnykh chastey (Minsk Spare Parts Plant) have shown that a water spray with 0.3% of sodium nitrite and 0.3% of sods ash was the best cutting fluid. The life of cutters cooled by this spray was 1.5 times longer than those cooled by sulfofresol, which in turn gives a considerably longer tool life than oil spray or emisions. This effect is explained by the intersive cooling of the worn surfaces of the tool, and by the peculiar dissociation effect of the aqueous electrolyte solutions. Use of the water spray also eliminates gear washing after cutting, facili tates machine cleaning, and generally improves working conditions for the operators. The new method is now being used on dozens of gear generators at the above

Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412830

1							•	
	Cooling g	Bar			8/ D 0	/121/63/000/002/ 140/D112	007/010	
	mentioned tekstil'ny shape is a 6 figures	Minsk play institution in and 2 to	lant with an ut (Ivanovo a diagram, blès,	automatic Textile I Practical	spraying un nstitute). recommendat	it designed by the recommended ions are given.	he Ivanovskiy spray nosale There are	
	land 2/2							

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

FEL'ESHIEYN, E.I., doktor tekhn. nguk, prof.; SHAGUU, V.I., inch.

Interrelationship between the difference in dimensions of the tap and internal thread and the precision of this thread.
Nauka - proizv. no.1:34-40 '63.

(MIRA 18:3)

SHAGUN, V.I., inzh, FEL'DSHTEYN, E.I., doktor tekhn. nauk, prof. [deceased]

Analysis of the precision of internal screw threads. Izv.vys.ucheb.
zav.; mashinostr. no.4:147-159 '64.

l. Belorusskiy tekhnicheskiy institut.

(MIRA 18:1)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

SHAGUN, V.I.; FEL'DSHTEYN, E.I. [deceased]

Effect of geometrical parameters of mechanical taps on the dimensions of screw threads cut in cast iron. Avt. prom. 30 no.5:37-40 My '64. (MIRA 17:9)

1. Belorusskiy politekhnicheskiy institut.

	The president of the property	per reasons	。 一种主义,是一种主义,但是一种主义,但是一种主义,但是一种主义,但
			12,441,41
ACCESSION NR: ARHO276	73	gloodly to	
SOURCE: RZh. Tekhnolog	riya mashinostrovaniya	8/0276/64/000/001/	B075/B075
AUTHOR: Fel'dshteyn,	. I.; Bel'kevich, B.	, ADS. (1810)	
TITLE: Turning of mete	lloceranio materials		
CITED SOURCE: Tr. N1	. in-te tekhnol. avtom	ov. prosesti, vy*p 10, 190	
		ceramic, metalloceramic ma	3. 45-53
machining, metalloceran	ic material turning	overto, metalioceranio ma	torial
turning. The first stage	rs studied the process; se of the study consist	ing of metalloceramic mate ted in the collection of d	rials by
Materiele me auti	by of the most widespr	and domestates of the	ata on
Toughnese Tout	cols assuring the grea	test on least made of	Cting Salah Salah
process of netallocerani	well as the effect of	setting of speeds, forces porosity and saturation of illustrations	n the
Card 1/2		de la	
THE STATE OF THE S		CARONEL REPORT OF THE PROPERTY	
		Ni office	

MOGIL'NYY, D.G., FEL'DSHTEYN, I.Ya.; YEPIFANOV, V.S.

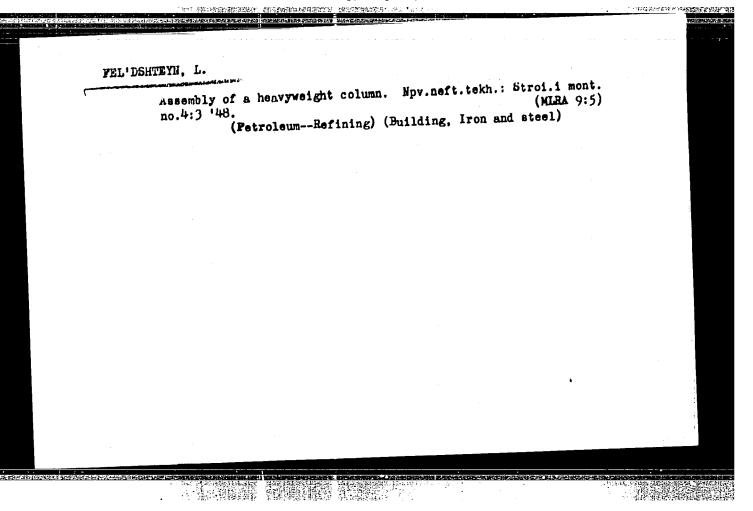
Device for determining the number of collector plates in electric machine collectors. Biul.tekh.-ekon.inform. Gos.nauch.-issl.inst.nauch.i tekh.inform. no.9:46-47 162. (MIRA 15:9) (Electric generators--Design and construction)

Large-block assembly of heavy equipment. Na stroi. Nos.

("TM 14:10)

1. Glavny incl. trocta Vostokneftezavodrontazh.

(Nachinery.-Erecting work)

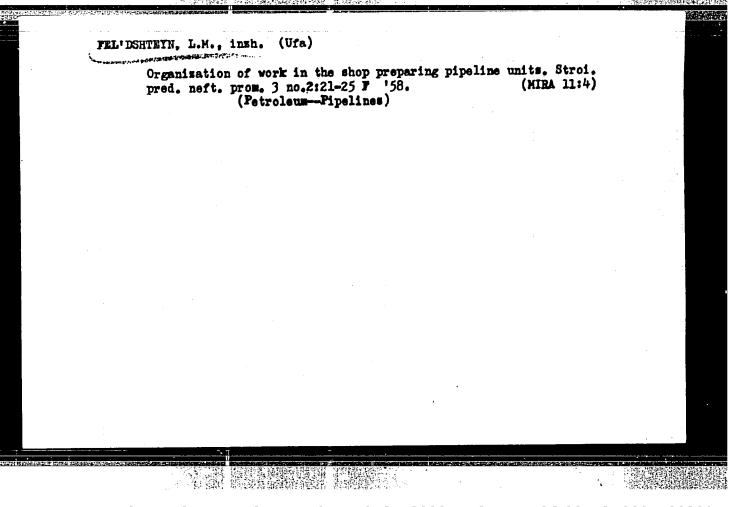


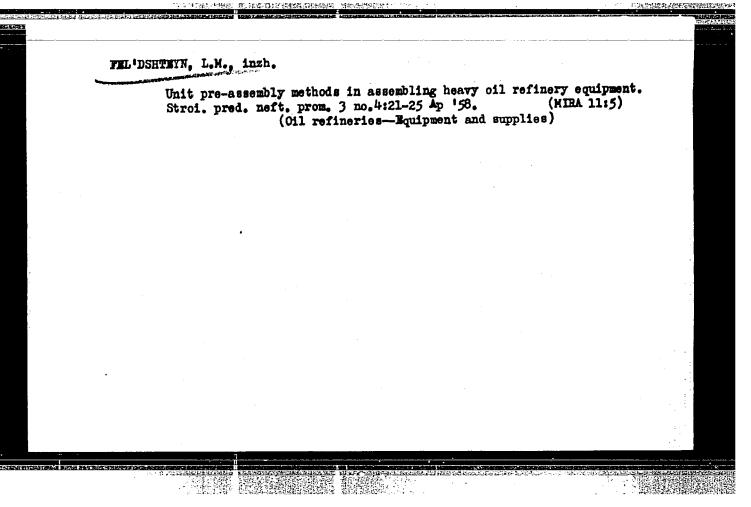
Unit assembly of the metal elements of refinery installations. Stroi.pred.neft.prom.l no.4:21-23 Je '56. (MEA 9:9) (Petroleum--Refining) (Building, Iron and steel)

FEL'DSHTEYN, L.M., inshener (Chernikovsk)

Rapid assembly of cracking installation. Stroi.pred.neft.pron.
1 no.7:19-24 S '56. (MLRA 9:10)

(Building) (Gracking process)





Organisational planning of assembling operations at the enterprises of petroleum and petrochemical industries. Nov.tekh.mont. i spets. rav. v stroi. 21 no.10:14-16 0 '59. (MIRA 12:11) 1. Trest Vostokneftesavodmontash. (Petroleum industry—Equipment and supplies)

FEL'DSHTEYN, L.M., insh.; MAGID, B.G., insh.; YENIKETEV, B.Eh., insh.

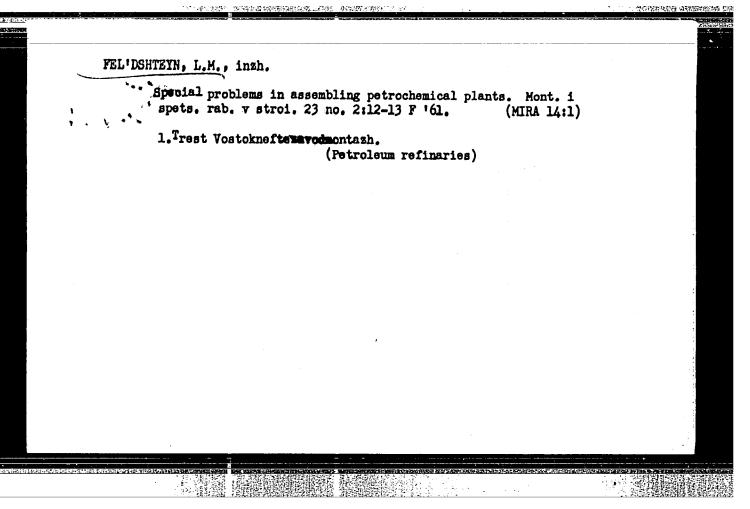
Selecting the most efficient sizes of tower hoists.

Mont.i spets.rab.v stroi. 22 no.9:5-8 S '60.

(MIRA 13:8)

1. Trest Vostoknefesavodmontash i Bashkirskiy nauchnoissledovatel'skiy institut stroitel'stva.

(Hoisting machinery)



FEL'DSHTEYN, L.M., inzh.

Assembling heavy columns at a synthetic rubber plant in Sterlitamak.

Mont.i spets.rab.v stroi. 23 no.6:17-19 Je '61. (MIRA 14:7)

1. Trest Vostokneftezavodmontazh.

(Sterlitamak—Columns)

FEL DSHTEYN, L.M., inzh.; MAGID, B.M., inzh.; YENIKEYEV, R.Kh., inzh.; DYUKAREV, P.Z., inzh.

Selecting effective means for mechanizing the assembly of equipment and structural elements of petroleum refining enterprises. Trudy BashNIIStroi no.1:5-108 '62. (MIRA 17:3)

LYUBCHARSKAYA, L.I.; FEL'DSHTEYN, L.S.; KDZMINSKIY, A.S.

Aging of rubbers under stress. Kauch.i rez. 21 no.1:23-29 Ja '62.

(MIRA 15:1)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlemnosti.

(Rubber—Testing)

(Strains and stresses)

AUTHORS:

Reytlinger, S. A., Kuz'minskiy, A. S.,

多達的發展開發的影響

507/20-120-2-33/63

Fel'dshteyn, L. S.

TITLE:

On the Nature of the Bindings and the Gas Penetrability of Space-Structured Polybutadiene (O prirode svyazey i gazopronitsayemosti

prostranstvenno-strukturirovannogo polibutadiyena)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 12c, Nr 2,

pp. 343 - 345 (USSR)

ABSTRACT:

First the authors discuss various previous papers and give a survey of the results obtained. The interest of the authors was directed towards the clarification of the separate influence of the bridge-like covalent bindings and of the intermolecular bindings upon gas penetrability. Space-structured polybutadienes differing as to the chemical nature of the transverse bonds were investigated. The space lattice in polybutadiene was rade visible by the following means: Heating in a press at 220°, irradiation by radiation from Cobo, heating with sulfur and diphenyl guanidine. heating with sulfur and thiouram. The density of the lattices

Card 1/3 was varied by several methods. The results of the investigations

On the Nature of the Bindings and the Cas Penetrability of Space-Structured Polybutadiene 201/20-120-2-35/65

are illustrated in a diagram. The dissolved sulfur exercises almost no influence upon the penetrability of rubber to nitrogen. Even if sulfur is bound intramolecularly, only a small modification of the penetrability is found. The bridge-like sulfur bindings between the chain-like molecules of the polymer exercise a greater influence upon the reduction of the penetrability than the same amount of sulfur-containing groups which are bound intramelecularly. A diagram illustrates as an example the typical dependence of the equilibrium modulus and of the nitrogen penetrability upon the duration of heating (220°). The reduction of gas penetrability which is found at a space structuring is accompanied by an inversely proportional increase of the equilibrium modulus. There are 3 figures and 12 references, 6 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshlennosti (Scientific Research Institute of Rubber Industry)

PRESENTED: January 13, 1958, by P.A.Rebinder, Member, Academy of Sciences,

USSR

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

On the Nature of the Bintings and the was
Fenetrability of Chace-Structure Polybutnoises

SUBMITTAD: January 15, 1956

1. Butadienes—Theory 2: Gases—Penetration 3: Heat
—Applications 4. Molecular association—Theory

FEL'DSHIEYN, L.S.

83295 S/138/59/000/010/007/010 A051/A029

15,9130

Kuz'minskiy, A.S.;

Frenkel', R.Sh.; Khanir

Khanin, S.Ye.;

Fel'dshteyn.

-

AUTHORS:

The Effect of Certain Organic Acid Salts on Rubber Vulcanization

TITLE:

PERIODCIAL:

Kauchuk i Rezina, 1959, No. 10, pp. 32 - 35

TEXT: The problem of increasing the rate of vulcanization of rubber without decreasing the initial plasticity of the mixtures and without causing any detriment to the scorching resistance and the physico-mechanical properties of the vulcanizates was studied. The use of inorganic bases as activators did not always render favorable results due to the poor distribution of the base in the mixture and the tendency of the mixtures to scorching. Organic substances with an alkaline nature, such as aliphatic amines, were also applied with the result that the vulcanizates had better physico-mechanical properties and a higher rate of vulcanization, but the mixtures containing triethanolamine acquired an elevated hardness, had a tendency to scorching and too wide a range of their physico-mechanical properties. The accelerating effect of potassium, scdium and ammonium salts of weak acids, such as orthophosphoric acid, acetic acid and benzoic acid

Card 1/3

A

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128300

83295

S/138/59/000/010/007/010 A051/A029

The Effect of Certain Organic Acid Salts on Rubber Vulcanization

建设 海髓 總計 [27]

were investigated. In the case of the salts of ortho-phosphoric acid, there was some accelerating action, but the same shortcomings were observed as in the case of sodium hydroxide or sodium. The salts of acetic and benzoic acids proved to be very good activators of the organic accelerators. The strongest activator was shown to be ammonium benzoate, obtained from the reaction between an aqueous solution of ammonia and benzoic acid. The physical and chemical properties of this salt are listed and Tables 1 - 3 show the compositions and the physico-mechanical indices of the rubbers investigated. Figures 1 and 2 show the vulcanization level of the mixtures with ammonium benzoate. The latter actually serves as an activator of other organic accelerators, since it has only a slight accelerating action itself. The activating effect of this salt is present in mixtures not containing sulfur. The accelerating action of ammonium benzoate is explained by the alkaline properties of ammonia which forms during the vulcanization process. In addition to this, the benzoic acid which forms upon the decomposition of the ammonium benzoate also has been found to have some activating effect in the last stages of the vulcanization process. It increases the hardness of the vulcanizates and slows up the vulcanization at the processing temperature of the mixture.

Card 2/3

S/138/59/000/010/007/010 A051/A029

The Effect of Certain Organic Acid Salts on Rubber Vulcanization

The following conclusions are drawn: it is possible to accelerate the vulcanization of rubber using ammonium benzoate; by using this salt the range of activators can be increased and a saving on expensive organic accelerators is gained; the time needed to reach the optimum of the rubber mixture vulcanization can be decreased by 2 to 3 times; the scorching resistance and the physico-mechanical properties of the vulcanizates are not jeopardized from the use of the ammonium benzoate salt. There are 3 tables, 2 graphs and 11 references: 10 Soviet and 1 English.



ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

Card 3/3

NUZ'MIESKIY, A.S., doktor khimicheskikh nauk; FRL'DSHTEYN, L.S.;
RETTLINGER, S.A., kand.tekhn.nauk

Surface crystallization of the ingredients of rubber mixtures.

Trudy NIIHP no. 6:84-91 '60.

(Rubber)

(Rubber)

FEL'DSHTEYN, L.S.; KHANIN, S.Ye.; FRENKEL', R.Sh.; KUZ'MINSKIY,
A.S.

Vulcanization of rubber with mercaptan in the presence of carbon blacks. Kauch. i rez. 20 no.8:28-32 Ag '61. (MIRAI4:8)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti. (Vulcanization)

8/020/61/136/004/015/026 B016/B075

AUTHORS: Fel'dehteyn, L. S., Reytlinger, S. A., and Kuz'minskiy, A. S.

TITLE: The Problem of Crystallizing Low-molecular Substances From

Solutions Into High Polymers

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 4,

pp. 843 - 845

TEXT: The authors attempted to find the reasons for an undesirable phenomenon, the so-called "efflorescence" (Ref.1), i.e., the formation of oversaturated solutions of low-molecular substances in high-polymer solvents. The former mostly crystallize on the interface polymer - gas. The system sulfur (2g) - polybutadiene (100 g) (CKE-30 (SKB-30)) served as test object. By using S² (Ref.2), the relative quantity of sulfur crystallized on the polybutadiene surface was determined. Platelets, 2 mm thick and 26 mm in diameter, were obtained by pressing a mixture of the two components for 60 min at 100°C in a cellophane foil. Before measuring the activity by means of an end-window counter, the cellophane foil was removed from one side. Already 24 hours after removing the cellophane Card 1/3

的基础 经收益收益 医阿莫斯特氏的现在分词 医多性结合物

The Problem of Crystallizing Low-molecular S/020/61/136/004/015/026 Substances From Solutions Into High Polymers B016/B075

foil, a considerable increase in activity was observed (Fig. 1). The authors explain this phenomenon by sulfur crystallization on the surface. since a concentration gradient had formed. The side covered by cellophane showed no increase in activity even after additional pressing. When storing the specimens wrapped in cellophane for a longer period efflorescence decreased until it completely vanished. On the strength of these data, the authors conclude that equilibrium was established due to crystallization inside the specimen. Crystallization sets in immediately after removing the cellophane foil. The time necessary for establishing equilibrium is determined by the diffusion rate of the sulfur from inside the specimen. When the cellophane was removed from none of the two surfaces even after 60 days equilibrium was not established. Therefrom the authors concluded that orystallization proceeds considerably slower inside the specimen than on its surface. The quick establishment of equilibrium in the case of strong oversaturation indicates that the formation of seed crystal is inhibited. By admixing pulverized metallic selenium, the authors succeeded in initiating the crystallization inside the specimen. Selenium is insoluble in rubber, but since it is isomorphous with sulfur it easily forms mixed orystals with the latter. The authors Card 2/3

The Problem of Crystallizing Low-molecular \$/020/61/136/004/015/026 Substances From Solutions Into High Polymers B016/B075

refer to the processes during crystal formation (Ref.4) and state that the difference between the diffusion coefficient of the dissolved substance and the self-diffusion coefficient of the polymer solvent inhibits the formation of crystallization centers inside the specimen. Plasticizers increase the mobility of polymer molecules and the probability of crystallization inside the specimen. Thus, sulfur does not effloresce in factices (Ref.2). There are 3 figures, 1 table, and 6 references: 4 Soviet.

ASSOCIATION: Mauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

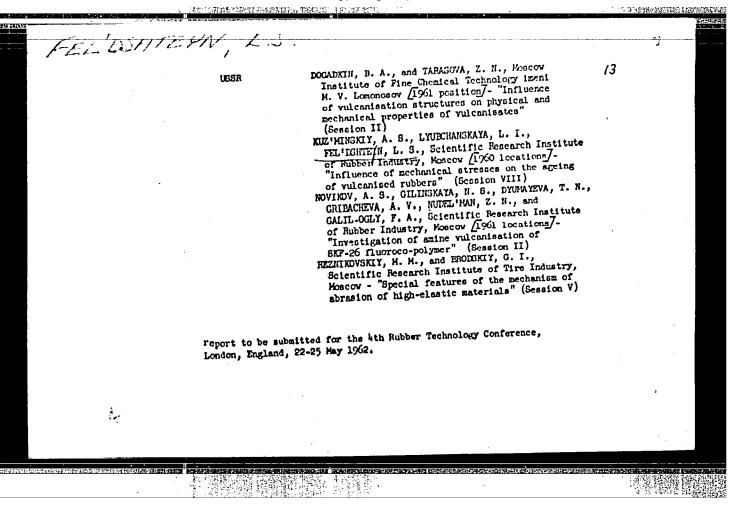
PRESENTED: July 8, 1960, by P. A. Rebinder, Academician

SUBMITTED: June 30, 1960

Card 3/3

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830



33728

S/138/62/000/001/006/009 A051/A126

15.9300

Lyubchanskaya, L.I.; Fel'dshteyn, L.S.; Kuz'minskiy, A.S.

TITLE:

AUTHORS:

Rubber aging in the strained state

PERIODICAL: Kauchuk i rezina, no. 1, 1962, 23 - 29

TEXT: The authors investigated the major law sequences in the process of chemical relaxation of tension and studied the effect of various composition factors. The accumulation kinetics of residual deformation and changes of the equilibrium standard (proportional to the number of transverse chemical bonds), were further examined. Natural and sodium-butadiene rubber were chosen as the experimental material. An axial compression relaxometer was used to test the chemical relaxation of tension. It was found that the rate of the relative drop in tension does not depend on the compression degree within the 20 to 5% deformation range. The tension drop is the result of the break in the bonds under tension; the accumulation of the residual deformation is determined primarily by structurating. According to the rate increase of tension relaxation, the vulcanizates are arranged in the following sequence: thiuram<vulcanizate with sulfur and diprenylguanidine. The rate consulture and captax</p>

X

Card 1/3

33728 \$/138/62/000/001/006/009 A051/A126

Rubber aging in the strained state

stants of the relaxation process, calculated according to the monc-molecular reactions are: 1:6:39. With the presence of transverse bonds in the vulcanizates, the reactivity of the polymer, with respect to the oxygen, strongly affects the ratio of tension relaxation. Data obtained further revealed that: 1) in aging of the deformed vulcanizates there are two competing processes taking place - oxidizing destruction of the polymer's molecular chains, and a thermomechanical decomposition of the transverse sulfur bonds. 2) In the presence of strong transverse mono- or disulfide bonds in the vulcanizates, the chemical relaxation of tension is determined by the oxidizing destruction of the molecular chains of the polymer and thus, the relaxation rate depends in this case on the reactivity of polymers and oxygen concentration. 3) Various carbon blacks (channel, furnace, thermal and lamp) increase the rate of chemical relaxation in the following sequence: channel>furnace>lamp>and thermal. The nature of the transverse bonds appears to be the main factor, determining the behavior of rubber in aging under conditions of static deformations. The selection of the appropriate polymer followed by the filler range next in importance. It is concluded that in rubber aging in the presence of oxygen, the tension relaxation process is determined by a thermal break of the transverse bonds for rubbers with polysulfide bonds and by thermo-oxidizing destruction of the polymer in vul-

Card 2/3

33728 8/138/62/000/001/006/009 A051/A126

Rubber aging in the strained state

canizates with strong transverse bonds. There are 8 figures.

ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

X

Card 3/3

34939 \$/138/62/000/003/003/006 A051/A126

1(470)
AUTHORS:

Frenkel', R. Sh., Kuz'minskiy, A. S., Fel'dshtevn. L. S., Khanin,

S, Ye., Vinogradova, L. F.

TEXT:

The effect of ingredients in rubber mixes on the structuralizing

of butadiene-nitrile rubber

PERIODICAL: Kauchuk 1 rezina, no. 3, 1962, 10 - 12

TEXT: An investigation was conducted to determine the effect of ingredients other than altax, for example (in the absence of sulfur), on the process of thermal structuralizing in synthetic rubbers. Butadiene-nitrile rubber (KH-26 (SKN-26) (commercial) was used in the experiments in an air medium. The thermomechanical method was used to determine the initial temperature of the mixture structuralizing. Accelerators and activators of vulcanization have a significant effect on the rate of thermal structuralizing. The accelerators increase the rate of structuralizing and lower the initial temperature. At the addition of zinc oxide into the system rubber-altax decreases the initial temperature and increases the rate of structuralizing. Thus, it is thought that the zinc oxide serves as a catalyst in the process of thermal decomposition. Data on the reaction kinetics with

Card 1/2

\$/138/62/000/003/003/006 A051/A126

The effect of ...

iodine prove this supposition. The following conclusions are drawn: Certain fillers (gaseous and thermal carbon black) and accelerators (captax) increase the tendency to structuralizing of the mixtures based on butadiene-nitrile rubber. Those filled with gaseous carbon black, containing altax or captax, are particularly prone to structuralizing. Zinc oxide increases the structuralizing action of captax in mixtures with gaseous carbon black. In the case of altax, the zinc oxide speeds up the structuralizing process both in filled and non-filled mixtures. The zinc oxide increases the ratio of the thermal decomposition of altax to free radicals. There are 3 figures, 2 tables and 5 Soviet-bloc references.

ASSOCIATIONS: Volzhskiy filial Nauchno-issledovatel skogo instituta rezinovoy promyshlennosti i Nauchno-issledovatel skiy institut rezinovoy promyshlennosti (Volga Branch of the Scientific Research Institute of the Rubber Industry and the Scientific Research Institute of the Rubber Industry)

X

Card 2/2

5/844/62/000/000/098/129 D234/D307

AUTHORS: Kuz'minskiy, A. S., Fel'dshteyn, L. S., Zhuravskaya, Ye.

V. and Lyubchanskaya, L. I.

TITLE: Radiation ageing of rubbers in stressed state

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, 576-580 SOURCE:

TEXT: Stress relaxation was investigated by means of an axial compression relaxometer described in a previous paper. The compress sion degree was 20%. Specimens were irradiated by a Co⁶⁰ source, the dose being varied from 0.5 to 1 Mr/hr. The specimens consisted of vulcanized natural HK (NK), butadiene-nitryl CKN-26(SKN-26), sodium-butadiene CKD (SKB) and butadiene-styrene CKC-30(SKS-30) rubbers. With respect to the velocity of relaxation, NK>SKV>SKS-30 > SKN-26, and with respect to that of residual deformation. SBK > NK > SKN-26 > SKS-30. Structurization and destruction outputs are compared. Presence of anti-radiation substances (N-phenyl-N'-

Card 1/2

\$\f\$44/62/000/000/098/129 D234/D307

Radiation ageing of ...

cyclonexyl-p-phenylenediamine and N,N'-diphenyl-p-phenylenediamine) in the quantity of 5% by weight did not affect the chemical relaxation rate but slightly affected the rate of accumulation of residual deformation and decreased considerably the rate of structurization. The rate of residual deformation was decreased by anti-radiation substances only in the case of irradiation in air but not in vacuum. There are 4 figures and 1 table.

ASSOCIATION: NII rezinovoy promyshlennosti (NII of the Rubber Industry)

Card 2/2

FEL'DSHTEYN, L.Ye,, inzh.; MAGID, B.M., inzh.

Self-propelled cranes assemble technical equipment. Mekh.
stroi. 19 no.10:10-12 0 '62. (MIRA 15;12)
(Cranes, derricks, etc.)

TIKHOHIN, I., prof.; FEL'DSHTMYN, M., dotsent, MaRT'YANOV, S., dotsent

Losses in the weight of livestock and meat. Mias.ind.SSSR 31
no.2:37-38 '60. (MIRA 13:8)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti.
(Cattle--Transportation)

FEL*DSHTEYN, M. "Thousand details." Sov. torg. 36 no.3:47-52 Mr '63. (MIRA'16:3) 1. Nachal'nik otdela organizatsii torgovli Moskovskoy torgovoy organizatsii po optovoy i roznichnoy torgovle tsvetami i rassadoy. (Hardware stores)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

FEL DSHOETS ON

USSR/General Biology - Individual Development

B-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, No 9522

Author : Kaplan, L.E., Fel'dshteyn, M.A.

Inst : Not Given

Title : Effect of Parenteral Protein Introduction on Healing of

Wounds

Orig Pub : Dokl. VASKhNIL, 1956, No 9, 14-20

Abstract : A study was conducted on the effect of N.G. Belen'ky medicinal

serum (MS) on the healing of skin-muscular wounds. Wounds of an area 25 cm² were localized within the region of 9-11th ribs of 48 rabbits. The wounds fully healed on the 35-40th day in animals to whom were administered MS intravenously 3 times (1-5 days after being wounded) in doses of 5 ml/kg. When the MS dose was decreased to 0.5 ml/kg the healing occurred on the 50-60th day. The healing of wounds in animals to whom 3 intravenous blood transfusions of isogenous blood in doses of 5 ml/kg were also administered occurred in 55-60

Card: 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 USSR/General Biology - Individual Development

CIA-RDP86-00513R00041283

Abs Jour : Ref Zhur - Biol., No 3, 1958, No 9522

days. Control animals died in 75% of the cases. Microbiological examination of wound exudations has shown that the microflora of the group under experimentation were less virulent than those of the control. Histologically it was found that in the group under experimentation granulated tissues aged earlier by comparison with the control. Aside from rabbits, the action of MS was verified on 8 horses. The animals were wounded in the region of the 10-12 ribs on an area of 81 cm2. MS was administered to animals under experimentation 1-5 days after having been wounded, in doses of 5 ml/kg weight. The differences in wound healing were observed in the second phase of the regenerative process (at the 16-18th day). Complete healing of wounds in animals under experimentation was noted after 70-76 days; in the control after 95 days. Viscosity index and speed of blood coagulation in animals under experiment were restored to normal on the 5-10th day, in the control on the 20-30th day. The author recommends administration of MS for treatment of wound defects in animals.

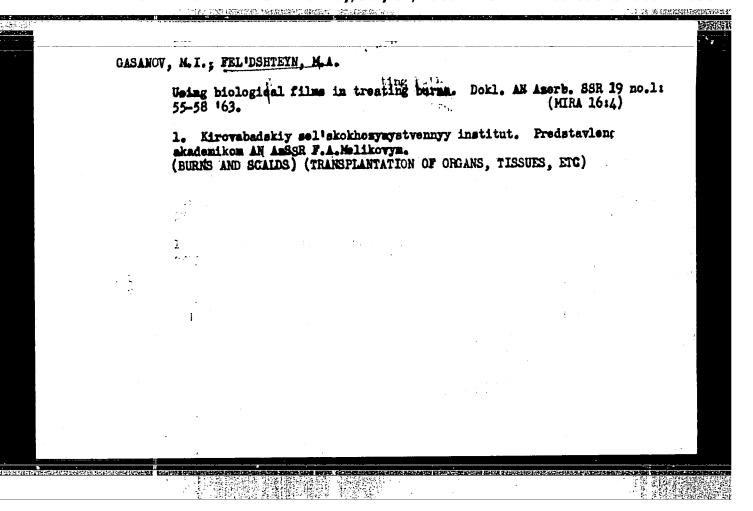
Card : 2/2

FEL! DSHTEYN, M.A., dotsent

A device for measuring wounds. Khirurgiia 32 no.7:84-86 Jl '56. (MLRA 9:11)

1. Iz kafedry khirurgii veterinarnogo fakulteta Moskovskogo tekhnologicheskogo instituta miasnoy i molochnoy promyshlennosti (WOUNDE AND INJURIES

wound measurement device)
(APPARATUS AND INSTRUMENTS
same)



TIKHONIN, I.Ya.; FEL'DSHTEYN, M.A.; MART'YANOV, S.N.; ZEL'MANOV, I.S.;
ROMANDINA, V.P.

Injuries in cattle raised for meat. Izv.vys.ucheb.zav.;pishch. tekh. no.5:79-83 '58. (MIRA 11:12)

1. Noskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra khirurgii i akusherstva.

(Cattle)...

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

FULLUCH STYR, M. A., MARTIYANOV, S. R. CHERTYAUSKIY, M. V. FOLITOV, S. D. and TIKKONIN, I. Ya.

"Means for dehorning calves and cattle."

Veterinariya, Vol. 38 No. 5 1961

Feldshteyn, M. A. - Assistant Professor Moscow Technological Institute of Meat and Milk Industry

USSR / Diseases of Farm Animals. General Problems.

R

Abs Jour

: Ref Zhur - Biol., No 22, 1958, No 101313

Author

: Fel'dshteyn, M. A.

Inst Title : Moscow Technological Institute of Meat and Dairy Industry. : Using Regulated Exercises for Some Open Traumas in Cattle.

Orig Pub

: Tr. Mosk. tekhnol. in-t myasn. i molochu. prom-sti, 1958,

vyp 7, 83-87.

Abstract

: When animals (bull calves, heifers, and cows), after impact wounds were inflicted upon them within the areas of their triceps, brachii, and biceps femori, were subjected to active exercises beginning with the 3rd day of the test, their general state of well-being improved. Also, granulation development was terminated and wounds healed 2-h days earlier than in animals kept at rest. An apparatus is suggested to be used for active regulation of exercises in mall

/sic/ horned cattle. -- I. I. Magda.

Card 1/1

GASANOV, M.I.; FEL'DSHTEYN, M.A.; MART'YANOV, S.N.

First aid and prevention of dewclaw diseases in farm animals on animal farms. Dokl. AN Azerb. SSR 19 no.3:71-73 '63.

(MIRA 17:8)

1. Institut veterinarii AN AzSSR. Predstavleno akademikom AN AzSSR F.A. Melikovym.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

TIKHONIN, I.Ya., prof.; FEL'DSHTEYH, M.A., dotsent; MART'YANOV, S.N., dotsent; ZEL'MANOV, I.S., veterinarnyy vrach; ROMANDINA, V.P., veterinarnyy vrach;

Losses in the meat industry from hidden injuries in cattle. Veterinariia 36 no.9:49-51 S '59. (MIRA 12:12)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.
(Meat industry and trade)

GONBACH, V.L.; FEL DSHTEYN, N.M., insh., red.; MOROZOVA, P.B., isd.red.; ROZHIM, V.F., VEKAN, red.

[Kinematics of working parts of grinding and polishing machines for optical parts] Kinematika rabochikh organov opticheskikh shlifoval'no-poliroval'nykh stankov. Moskva, Gos. isd-vo obor. promyshl., 1958. 107 p. (MIRA 12:2) (Machinery, Kinematics of) (Grinding and polishing) (Lenses)

WELLDSHTEYN, M. M.

ging, -y5824. Viktorov, S. V. i Fel'dshteyn, M. M. Organizatsiya torgovli v slaonakh.
(iz opyta mosk. gos. univers. magasina glavunivermaga m.) Gostorgizdat, 1954,
il, slosh. v 8s., s ill 21 sm. 20.000 ekz. 50 k Avt. ukazany v kontse teksta
(55-1071) 658.871 (47.311)

SO:: Knizhnaya, Letopis, Vol. 1, 1955

FEL DSHTEYN, M. H.

PERMITTANDE DE LE PRIMERO, GERLO (PRIMERO)

4766. FEL'DSHTEYN, M. M. Novogodnyaya torgovlya elochnymi igrushkami i ukrasheniyami.
pod red. n. a. kirsanova. m., dostorgizdat, 1954. 23s. vklyuch. obl. 22sm.
20,000 ekz. lr. -- avt. ukazany v kontse teksta. -- (55-56)P. 658.8:688.72

SO: Letopis' Zhrumal' nykh Statey, Vol. 7, 1949

CIA-RDP86-00513R000412830

FELIDSHTEYN, F. E.

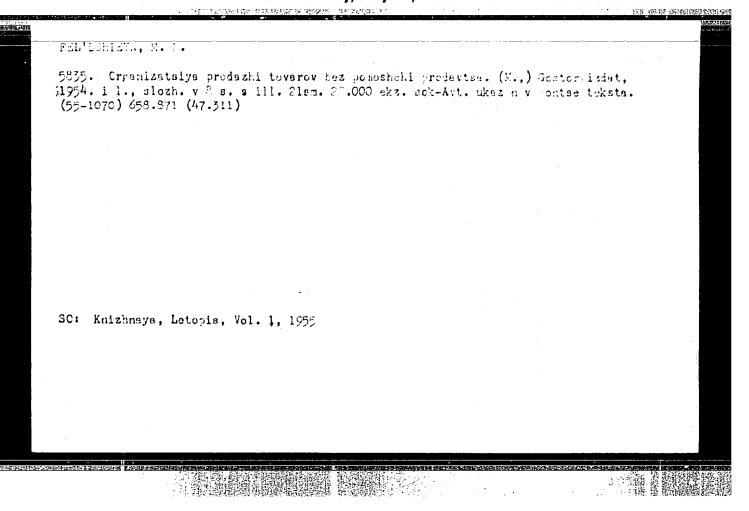
5826. Zaochnuye konferentall polupateley. (F.) Gostorpizdat, 1954. 11, slozh, y 6s. 22sm. 20.000 dkz. 25k.-Avt. ukazany v kontse teksta.-(55-1065) 658.871 (47.37)

S0: Knizhnaya, Letopis, Vol. 1, 1955

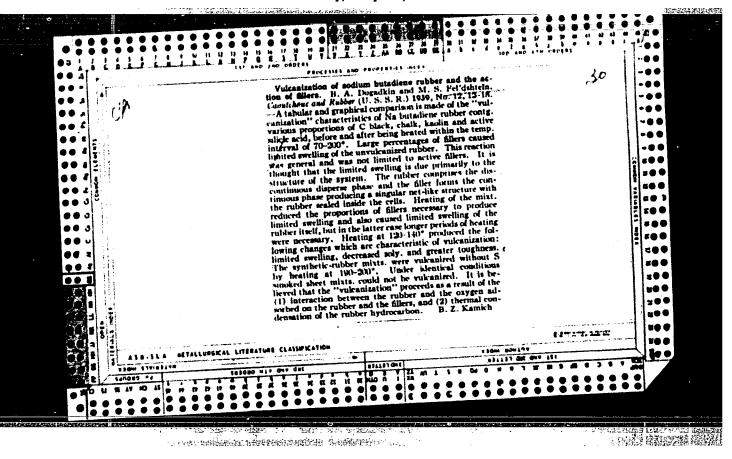
CIA-RDP86-00513R000412830

5626. Grgenizatriya ekhal'nykh kazarav v Xoiversall'nykh sa sakisatk slevisitvirsana.
poo red. N. A. Kironova, M. Gostreizsat, 1954. 16 s. e. Plac. CC.SII etz. 752. Avt.
Ukazany v kontae tekata. (55-1072) 653.271 /653.8 : 656.8

SC: Knizhnaya, Letopis, Vol. 1, 1955



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412830



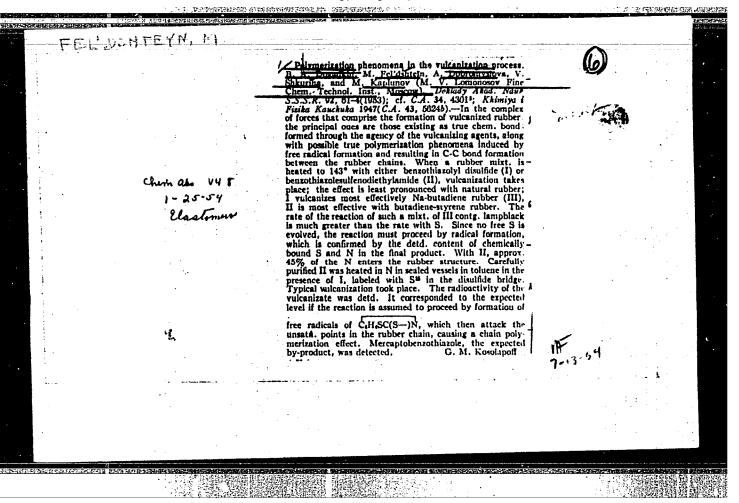
CIA-RDP86-00513R000412830

FEL! DSHTEYN, M. S.

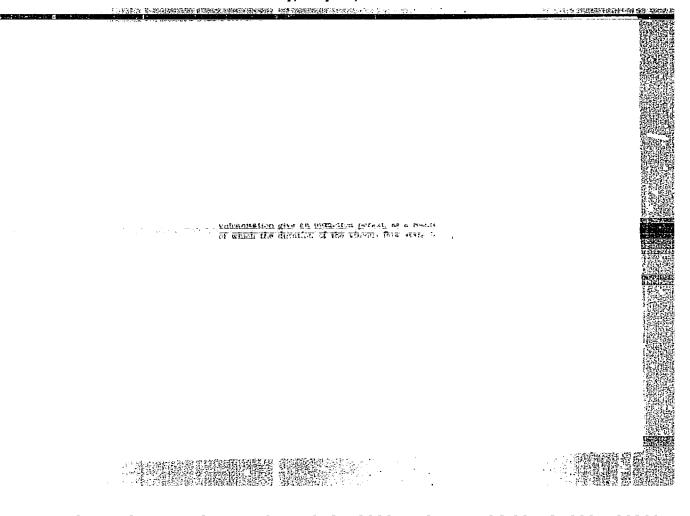
"Investigation of the Action of Molecular Oxygen in the Process of Vulcanization of Natural and Sodium-Butadiene Rubber." Thesis for degree of Cand. Chemical Sci. Sub. 28 Nov 49, Moscow Inst of Fine Chemical Technology imeni M.V. Lomonosov.

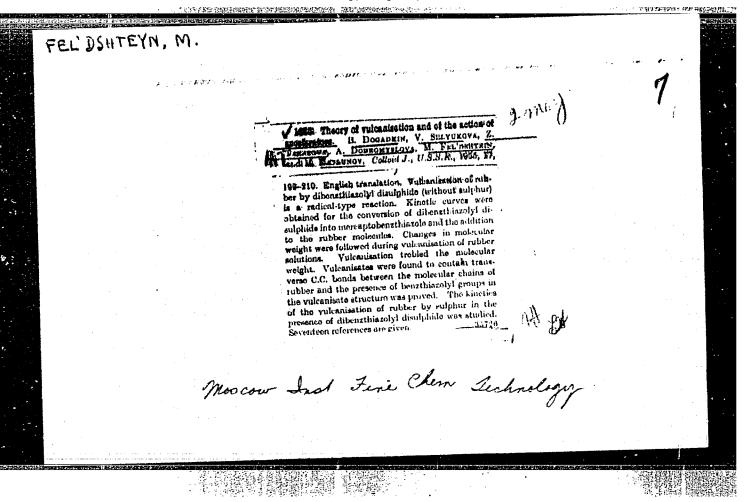
Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

CIA-RDP86-00513R000412830



CIA-RDP86-00513R000412830





AID P - 3427

FELDSHITEYN, M.

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 12/18

Authors : Dogadkin, B., M. Fel'dshteyn, and D. Pevzner

Title : Vulcanization of butadiene-styrene rubber in the

presence of sulfenamide accelerators

Periodical : Zhur. prikl. khim., 28, 5, 533-542, 1955

Abstract : Experiments with benzothiazolesulphenodiethylamide

showed that this accelerator exerts a higher vulcan-

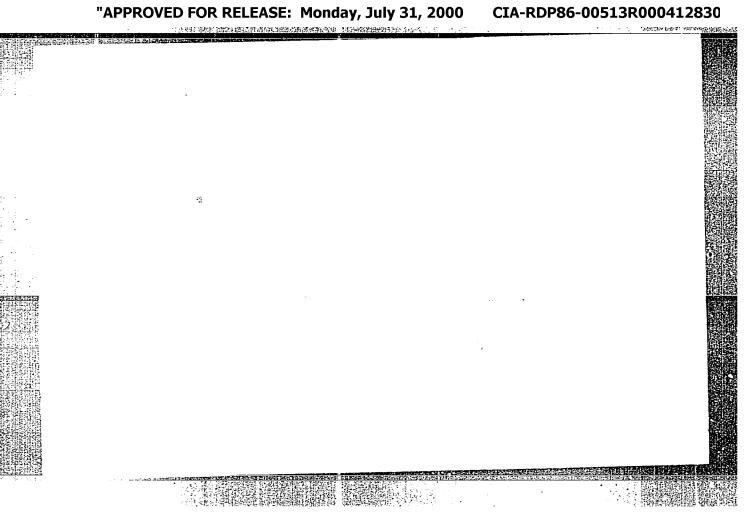
izing action than sulfur. The effect of

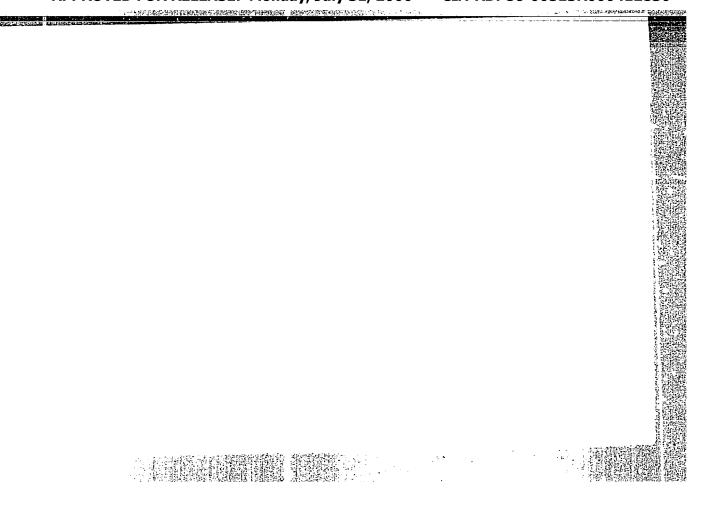
benzothiazolesulphenamide and of sulfur mixtures is discussed. Eleven diagrams, 5, references, 2 Russian

(1947-1953).

Institution : Scientific Research Institute of the Tire Industry.

Submitted : Ag 10, 1953





501/138-58-9-3/11

AUTHORS:

S; Eytingon, I. I. and Dogadkin, B. A; Felidshtevn. bi.

Pewzner, D. M.

TITLE:

Action of Some Heterocyclic Disulphides as Vulcanisation Agents and Accelerators (O deystvli nekotorykin geterots-

iklicheskikh disul'fidor, kak agentov i uskoriteley

vulkanizatsii)

PERIODICAL:

Kauchuk i Rezina, 1958, Nr 9, pp 7 - 12 (USSR)

ABSTRACT:

Experiments were carried out on the action of heterccyclic disulphides containing in the molecule >N-S-S-N< bonds, especially N, N -dithiodimorpholine (DTM). This compound was obtained by reacting morpholin with sulphur dichloride in a dichlorethane solution at 2 - 4°C in the presence of alkali. Pure DTM was obtained after distillation and subsequent orystallisation. A percentage analysis of the product is given. The vulcanisation activity of DTM was investigated in butadiene-styrene rubber SKS-30A, with or without the addition of fillers, but which did not contain S. 7.1% of DTM was added to the rubber. The vulcanisation kinetics of a mixture containing sulphur was defined at the same time. Data on the kinetics of sulphur addition to the rubber at a vulcanisation temperature of 14300 is given

Card 1/3

SOV/138-58-9-3/11 Action of Some Heterocyclic Disulphides as Vulcanisation Agents and Accelerators

in a graph (Fig.1). Fig.2: kinetics of changes in the rate of swelling of mixtures containing N.N'-dithiodimorpholine (1) DTM, N.N'-dithiodipiperidine (2) DTP and sulphur (3). When sulphur is used as vulcanisation agent for 120 minutes, no normal vulcanisates are formed. When DTM is used as vulcanising agent good results are obtained after 45 minutes (Fig.3). The effect of DTM on mixtures containing sulphur is graphically shown in Fig.4A. The vulcanising activity of DTM increases sharply when small quantities of mercaptobenzothiazole LBT or of sulphonmamide BT are added. Vulcanisation systems containing DTM and dibenzothiazole disulphide (DBTD). but without sulphur, can be vulcanised in 40 - 50 minutes at 13800; these optimum conditions are the same as for vulcanisates prepared by using sulphonamide and considerable quantities of sulphur (Fig.4B). Fig.5: Variations in the plasticity (according to Mooney) in mixtures containing DTF and sulphonamide BT. Values on swelling in xylene and solubility in chloroform after heating for 60 minutes at 100, 110, 120 and 13000 are given (Table 1). The

Card 2/3

SOV/138--58-9--3/11

Action of Some Heterocyclic Disulphides as Vulcanisation Agents and Accelerators

addition of DTM influences the resistance of the vulcanisates during repeated deformations (Fig.6). These experiments show conclusively that DTM improves considerably the properties of the vulcanisates. The kinetics of the addition of S and N, when using DTM and DTP, are discussed and shown in 2 graphs (Figs. 7 and S). There are 8 Figures, 1 Table and 8 References: 2 English, 5 Soviet and 1 German.

ASSOCIATION: Nauchro-issledovatel'skiv institut shinner promyshlennosti (Scientific-Research Institute of the Tyre Industry)

Card 3/3

69-20-3-5/24

AUTHORS:

Fel'dshtevn, M.S.; Eytingon, I.I.; Pevzner, D.M.; Dogadkin, B.A.

TITLE:

The Vulcanization Action of Some Heterocyclic Disulfides (Vulkanizuyushcheye deystviye nekotorykh geterotsiklicheskikh

disul'fidov)

PERIODICAL:

Kolloidnyy zhurnal, 1958, vol. XX, Nr 3, pp 288-292 (USSR)

ABSTRACT:

The organic di- and polysulfides are very important for the intensification of technological processes, because they act at the same time as accelerator and as independent vulcanization agents. In the article, heterocyclic disulfides which contain in the molecule N-S-S-N bonds are investigated. To these compounds belongs N,N'-dithiodimorpholine. Rubber vulcanized by this substance is resistant to the formation of cracks at frequent deformations with an increase of the corresponding index from 117.5 to 225 cycles, and is also resistant to aging due to the presence of resistant vulcanization bonds. The vulcanization by N,N'-dithiodimorpholine is accompanied by the joining of sulfur and nitrogen. The content of the bound sulfur, considerably surpasses the content of bound nitrogen. The vulcanizing action of the sub-

Card 1/2

69-20-3-5/24

The Vulcanization Action of Some Heterocyclic Disulfides

stance is regarded as a consequence of the asymmetrical de-

composition of the compound into free radicals.

There are 5 graphs and 5 references, 3 of which are Soviet

and 2 English.

Nauchno-issledovatel'skiy institut shinnoy promyshlennosti, ASSOCIATION:

Moskva (Scientific Research Institute of the Tire Industry,

Moscow)

SUBMITTED:

January 23, 1958

Card 2/2

1. Disulfides - Weterocyclic -- Vulcanisation

DOGADKIN, B.A.; FEL'DSHTEYN, M.S.; BELYAYEVA, B.N.

Effect of double systems of vulcanization accelerators. Vysokom soed. 1 no.2:254-264 F 159. (MIRA 12:10)

1. Nauchno-issledovatel skiy institut shinnoy promyshlennosti, Moskva.

(Vulcanisation)

1

DOGADKIN, B.A.; HELYATSKAYA, O.N.; DOBROMYSLOVA, A.V. CFEL'DSHTEYN, M.S.

Vulcanization of rubber in the presence of N.N-diethyl-2-benzothiasylsulfenamide as accelerator. Vysokom. soed. 1 no.6:878-888 Je '59. (MIRA 12:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. Lomonosova. (Vulcanisation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

15(9) SOV/63-4-1-4/31

AUTHORS: Fel'dshteyn, M.S., Candidate of Chemical Sciences, Orlovskiy,

F.N., Candidate of Technical Sciences

TITLE: Modern Chemical Materials for the Rubber Industry (Sovremennyye

khimicheskiye materialy dlya rezinovoy promyshlennosti)

PERIODICAL: Khimicheskaya nauka i promyshlcnnost', 1959, Vol 4, Nr 1,

pp 26-34 (USSR)

ABSTRACT: Sulfur is the universal vulcanization accelerator. For poly-

chloroprene and carboxylate rubbers metal oxides are employed as accelerators. Among organic compounds the thiazoles are extensively applied in vulcanization. Mercaptobenzothiazole de-

rivatives are used as accelerators for butadiene-styrene

rubbers. Organic di- and polysulfides are vulcanization agents and accelerators at the same time. For butyl-rubber the special

agent and accelerator of vulcanization n-quinonedioxime has been developed. Retarders prevent the premature vulcanization.

The most important of them is phthalic anhydride. The age resistors belong to the primary and secondary aromatic amines,

the aromatic diamines, the condensation products of aromatic

the aromatic diamines, the concentration products of an amines with aldehydes, and the phenols. Phenyl- \beta -naphthyl-