

The First Decade of the Higher Soviet School (1917-1927)

3-6-8/29

to organize on a broad scale the training of scientific-pedagogic personnel by post-graduate courses for which purpose 800 scholarships were placed at the disposal of RSFSR People's Commissar of Education. Towards the end of 1927, 170,000 students (25,4% of whom were workers or their children, while at the industrial Vuzes they numbered even 38,3%) studied in higher schools. By 1927 the number of students attending post-graduate courses numbered 900. The problem of furnishing the national economy, first of all industry and agriculture, with leading specialists still remained acute on the 10th anniversary. There are 19 Russian references.

AVAILABLE: Library of Congress

Card 4/4

SHUBENKO, V.A., prof.; BRASLAVSKIY, I.Ya., inzh.

Using asynchronous motors in servo systems with digital programmed control. Izv. vys. ucheb. zav.; gor. zhur. 7 no.5:125-130 '64.  
(MIRA 17:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova.  
Rekomendovana kafedroy elektroprivoda i avtomatizatsii promysh-  
lennykh ustanovok.

AUTHOR: ~~Braslavskiy, I. Ya.~~ SOV-3-58-8-20/26

TITLE: The Fortieth Anniversary of the First Decree on Higher Education (Sorokaletiyе pervogo dekreta o vysshem obrazovanii)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 75 - 78 (USSR)

ABSTRACT: The article gives a historical review of the first measures adopted in 1918 to bring about a reform of the high school in spite of strong opposition on the part of professors and instructors. According to the decree of the People's Commissars, any citizen of 16 years of age could enter a higher educational institution without submitting any proof that he graduated from a secondary or any other school. The tuition fee was cancelled and no limit was set on the number of admissions, irrespective of the facilities available. There are 10 Soviet references and 1 reproduction of a resolution.

Card 1/1

SHUBENKO, V.A., doktor tekhn. nauk, prof.; BRASLAVSKIY, I.Ya., inzh.

A.C. servo drive with contactless digital program control. Izv.  
vys. ucheb. zav.; energ. 7 no.9:15-21 S '64. (MIRA 17:11)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova. Predstavlena kafedroy elektroprivoda i avtomatizatsii promyshlennykh ustanovok.

SHUBENKO, V.A., prof.; BRASLAVSKIY, I.Ya., inzh.

Investigating the performance of an induction motor with a p-n-p-n device in the power circuit controlled by a digital servosystem. Izv. vys. ucheb. zav.; gor. zhur. 7 no.11:161-166 '64. (MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut imeni Kirova. Rekomendovana kafedroy elektroprivoda i avtomatizatsii promyshlennykh ustanovok.

SHUBENKO, V.A., prof.; BRASLAVSKIY, I.Ya., inzh.; GIL'DEBRAND, A.D., inzh.

Design of an a.c. servo drive optimum in respect to response and accuracy with digital program control. Izv. vys. ucheb. zav.; gor. zhur. 8 no.2:128-135 '65. (MIRA 18:5)

1. Ural'skiy politekhnicheskii institut imeni S.M.Kirova.

I. 22427-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) IJP(c) EC  
ACC NR: AP6013620 SOURCE CODE: UR/0105/65/000/009/0031/0035

AUTHOR: Shubenko, V. A. (Doctor of technical sciences; Professor); Braslavskiy, I. Ya.  
(Engineer); Kutsin, V. V. (Engineer)

ORG: Ural Polytechnic Institute im. Kirov (Ural'skiy politekhnicheskiy institut) <sup>80</sup> <sub>13</sub>

TITLE: High-speed AC thyristor power drive controlled by a digital servosystem <sup>9</sup>

SOURCE: Elektrichestvo, no. 9, 1965, 31-35

TOPIC TAGS: digital system, servosystem, alternating current, electric motor, automatic control system

ABSTRACT: The authors describe power-drive systems in which the motor controls (thyristors) perform the following functions in accordance with signals received from the controlling digital servosystem: startup of motor in the required direction; reduction of motor RPM, disconnection of motor following completion of the program. To this end, the digital servosystem (DSS) is equipped with an arithmetic device fed with a binary-coded program as well as with a nine-digit static-type adder, code-to-voltage converters, and transistorized static-type AND, OR, NOT logic elements. Experiments demonstrate the feasibility and expediency of utilizing thyristors in the power circuits of the induction motor, particularly when these are controlled from the DSS.

Card 1/2

UDC: 621.34:62-503.53

2

I 22427-66

ACC NR: AP6013620

This makes the control system virtually inertia-free and assures the performance of the electric drive in regimes which make possible a rapid and exact execution of the present programs. Orig. art. has: 5 figures and 3 formulas. [JPRS]

SUB CODE: 09 / SUBM DATE: 25May64 / ORIG REF: 006

Card 2/2 *ll*



BRASLAVSKIY, L.; MENDEL'SON, D.

Intermittent work week at the mines of the Chelyabinsk-coal Combine.  
Mast.ugl.5 no.9:8-9 S '56. (MIRA 9:10)

1. Nachal'nik tekhnicheskogo upravleniya kombinata Chelyabinskugol'  
(for Braslavskiy).  
(Chelyabinsk Basin--Coal mines and mining)

KHOREV, Grigoriy Grigor'yevich, kand. ekon. nauk; BRASLAVSKIY,  
L.G., retsenzent; KOROBov, G.A., retsenzent

[Work organization in the producing section of a mine]  
Organizatsiia raboty na ekspluatatsionnom uchastke  
shakhty. Moskva, Nedra, 1965. 183 p. (MIRA 18:12)

BRASLAVSKIY, M.

Scientific technical conference of highway transport workers.  
Avt.transp. 39 no.10:52 0 '61. (MIRA 14:10)  
(Highway transport workers)

BRASLAVSKIY, M., starshiy inzh.

Practice of innovators in the automotive transportation. NTO  
3 no.12:61 D '61. (MIRA 15:1)

1. Proektno-konstruktorskoye byuro Upravleniya avtomobil'nogo  
transporta i shosseynykh dorog Donetskogo sovnarkhoza.  
(Transportation, Automotive--Technological innovations)

BRASLAVSKIY, M.; SHCHELOKOV, A.; BLATNOV, M.; STROGANOVA, V.; BABKOV,  
Ye.

Information. Avt. transp. 42 no. 5:55-58 My '64. (MIRA 17:5)

1. Glavnyy inzh. Tsentral'nogo konstruktorskogo byuro Ministerstva  
avtomobil'nogo transporta i shosseynykh dorog RSFSR (for Babkov).

BRASLAVSKIY, M.S.

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;  
GUREVICH, G.M.; GORBUHOVA, P.I.; KOINOV, A.S.; KALANTAROVA, M.V.;  
KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-  
CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;  
SUBBOTINA, V.P.; TANASIYCHUK, N.P.; PEDOTOV, S.D.; FISENKO, K.N.;  
EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-  
CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,  
D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,  
A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,  
V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;  
CHIKINDAS, G.S.; SHECHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;  
OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,  
I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;  
VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;  
BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;  
VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;  
KRAVETS, A.D., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaya Astrakhan'. Astrakhan',  
Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskii administrativnyy rayon.  
(Astrakhan Province--Economic conditions)

MOTIN, Ivan Antonovich; KOGUYENKO, Boris Leonidovich; BRASLAVSKIY, Mikhail Samoylovich; BELOTSEKOVSKAYA, S.I., red.

[Mechanization and automation of operations in service stations; practice of automotive transportation units of the Donetsk Economic Council] Mekhanizatsiia i avtomatizatsiia garazhnykh protsessov; iz opyta avtokhoziaistv Donetskogo sovnarkhoza. Moskva, Transport, 1964. 86 p.

(MIRA 17:4)

BRASLAVSKIY, M.

Activity of a voluntary inspector of motor vehicles. Avt.transp.  
40 no.9:44-45 S '62. (MIRA 15:9)  
(Motor vehicles--Inspection) (Traffic safety)



*BRASLAVSKIY, N.*  
BRASLAVSKIY, N.

~~Regrettable neglect. Sel'khoz. Kirg. 3 no.10:53-56 0 '57.  
(Kirghizistan--Sugar beets) (MLRA 10:11)~~

SOV/111-59-2-6/27

6(2)  
AUTHOR: Braslavskiy, N.P., Senior Instructor

TITLE: On Improving the Training of Communications Specialists in the Field of Automatics and Telemechanics.  
(Uluchshit' podgotovku spetsialistov svyazi v oblasti avtomatiki i telemekhaniki)

PERIODICAL: Vestnik svyazi, 1959, Nr 2, pp 6-7 (USSR)

ABSTRACT: From the standpoint that the techniques of communication and those of automation and telemechanics cannot be treated as separate, the author goes on to indicate numerous shortcomings in the teaching programs of institutes of communications in the latter field. He points out that many of the most basic elements, theoretical and practical, of automatics and telemechanics are treated but little, if at all, in educational institutions, and often they are treated without regard to their application in this field. Several specific recommendations are made for the inclusion of certain subjects in the existing curricula

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SOV/111-59-2-6/27

On Improving the Training of Communications Specialists in the Field of Automatics and Telemechanics

of the departments of radio communications and broadcasting, and telephone and telegraph communications, or the creation of entirely new courses or departments in the field of automatics and telemechanics. The graduate-specialist from an institute of communications, he says, must be prepared to meet the concrete problems of designing, constructing, operating and servicing the very complex equipment of automatic control and telemechanical devices. Five specific measures are recommended as follows: 1) That in the fourth course, the bases of automatics and telemechanics be taught, and that an examination be given in this subject; 2) The programs of all subjects need to be re-worked so that each one treats automatics and telemechanics as it relates to the specific course material; 3) That special lectures be provided, by the department, in connection with the degree projects of candidates; 4) Laboratories should be established, by departments, with compulsory laboratory work on concrete problems of auto-

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SOV/111-59-2-6/27

On Improving the Training of Communications Specialists in the Field of Automatics and Telemechanics

omatics and telemechanics; 5) Departments of automatics and telemechanics should be created in all institutions of communications. In conclusion the author suggests an All-Union Conference under the auspices of the Ministry of Communications of the USSR to discuss the development of the automatics and telemechanics of communications, and the preparation of specialists in the field.

ASSOCIATION: Kafedra radioveshchaniya OEIS (The Department of Radio-Broadcasting of OEIS)

Card 3/3

BRASLAVSKIY, V.A.

Design of the lid of the U8 pump. Neftianik 7 no.12:14, D '62.  
(MIRA 16:6)

(Oil well pumps)

BRASLAVSKIY, V.M.

End-face centerless grinding. Stan. 1 instr. 26 no.7:5-8 J1 '55.  
(Grinding and polishing) (MIRA 8:9)

BRASLAVSKIY, VENIAMIN MARKOVICH  
BRASLAVSKIY, Veniamin Markovich; ZAKHAROV, Boris Petrovich; GORELOV, V.M.,  
inzh., red.; SARAPANNIKOVA, G.A., tekhn.red.

[Electric metal-machining processes] Elektricheskie sposoby obrabotki  
metallov. Izd. 3-e. Pod red. V.M.Gorelova. Moskva, Gos.nauchno-  
tekhn. izd-vo mashinostroit. lit-ry, 1957. 53 p. (Nauchno-populiar-  
naya biblioteka rabocheho stanochnika, no.10) (MIRA 11:2)  
(Electric cutting machinery)

BRASLAVSKIY, V.M., inzh.

~~BRASLAVSKIY, V.M., inzh.~~  
Mechanizing the polishing of short-size cylindrical workpieces.  
Mashinostroitel' no.10:7-9 0 '57. (MIRA 10:11)  
(Grinding and polishing)



BRASLAVSKIY, V.M., inzhener.

Use of cold rolling for the finishing of machine parts. [Trudy]  
(MLRA 10:9)  
TSNIITMASH no.85:117-128 '57.  
(Rolling (Metalwork)) (Metals--Finishing)

30X/123-59-15-59778

Translation from: Referativnyy zhurnal. Mashinostroyeniya, 1959, Nr 15, pp 125 - 126 (USSR)

AUTHOR: Braslavskiy, V.M.

TITLE: Hardening Burnishing at the Uralmashzavod

PERIODICAL: Sb. statey. Ural'skiy z-d tyazh. mashinostr. im. S. Ordzhonikidze, 1958, Vol 7, pp 54 - 73

ABSTRACT: A method is investigated, which is used at the Ural Heavy Machine Building Plant and by which, with the aid of rollers, big-sized machine parts are burnished in order to obtain a surface hardening with a depth of 5 - 10 mm. The efficiency of such a treatment is specified by obtaining a surface smoothness of high quality, by an increase of the fatigue strength (up to 100% and more) and a prolongation of the life of the machine part (up to 150%, sometimes manifold). The technology of surface burnishing the equipment and devices which are used for the processing of shafts for conical crushers, for complex crankshafts of reversible steam engines with a power of 10,000 hp and for rods of drop hammers are described. 15 figures, 12 references.

Card 1/1

L.Kh.Sh.

SOV/121-58-10-13/25

AUTHOR: Braslavskiy, V.M.

TITLE: ~~The Surface Rolling of Slideways~~ (Obkatka  
Napravlyayushchikh rolikami)

PERIODICAL: Stanki i Instrument, 1958, Nr 10, pp 33-34 (USSR)

ABSTRACT: Surface rolling of slideways in large machine tools as practiced by the Uralmashzavod replaces scraping and is applied after planing, which, after two cuts, achieves a surface finish of the 5-6th grade. Surface rolling tools are illustrated and consist of single-roller tool holders with adjustable surface pressure by means of a compression coil spring. Roller diameters vary between 50 mm and 240 mm with pressures up to 5000 kg. Rollers are made of KhVG steel, hardened to Rockwell C 62-64, with a 10th grade surface finish. Surface rolling is applied in planing machines, within their normal range of speeds. Fig.3 shows a graph of the surface finish against the feed in mm/double stroke. A typical procedure uses a roller

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SOV/121-58-10-13/25

The Surface Rolling of Slideways

of 70 mm diameter, 100 mm profile radius and 1400 kg pressure at a feed of 1.8 - 2.5 mm. There are 5 illustrations including 1 graph and 1 photo and 1 table.

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BRASLAVSKIY, V. D.

PLANE I BOOK ENGLISHIZATION

88/3432

Механизация и автоматизация машиностроительного производства. Механизация и автоматизация в машиностроении (Машиностроительная промышленность, Механизация и автоматизация)

1979. 319 p. 12,000 copies printed.

Ed. V. V. Pavlov, Doctor of Technical Sciences, Tech. Sci. D. A. Dvornik, Member of the Board of the Academy of Sciences, V. V. Kozlov, Candidate of Technical Sciences, V. V. Pavlov, Doctor of Technical Sciences, M. P. Pavlov, Candidate of Technical Sciences, K. K. Shkolov, Candidate of Technical Sciences, V. K. Shkolov, Candidate of Technical Sciences, M. L. Kuravov, Engineer, Candidate of Technical Sciences, and P. V. Chernobrov, Doctor.

Purpose: This book is intended for production engineers and personnel engaged in industrial planning. Content: The book presented in this book is said to be based on practices developed and worked in the machine-building plants of the USSR and other countries. Listed are various methods of mechanization and automation of their applications in forming, forging shops, and metal casting. Other fields of use include welding, bending, correction devices, tools, quality control on industrial scale. Various automation devices, tools, and instruments currently used in mechanization are mentioned. The equipment mentioned in the book is described and illustrated. The equipment mentioned is said to have been produced by the plants using their own resources. The equipment mentioned in the book is described and illustrated.

- 1. Mechanization of Finishing Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 341
- 2. Mechanization of Grinding Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 342
- 3. Mechanization of Polishing Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 343
- 4. Mechanization of Drilling Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 344
- 5. Mechanization of Turning Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 345
- 6. Mechanization of Milling Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 346
- 7. Mechanization of Planing Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 347
- 8. Mechanization of Scraping Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 348
- 9. Mechanization of Grinding Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 349
- 10. Mechanization of Polishing Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 350
- 11. Mechanization of Drilling Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 351
- 12. Mechanization of Turning Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 352
- 13. Mechanization of Milling Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 353
- 14. Mechanization of Planing Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 354
- 15. Mechanization of Scraping Operations (Pavlov, V. V., Engineer, and K. K. Shkolov, Engineer) 355

3. Mechanization of Automatic Production Lines (Shkolov, K. K., Candidate of Technical Sciences, V. V. Kozlov, Engineer, and V. V. Pavlov, Engineer) 379

4. Mechanization of Certain Automatic Lines (Shkolov, K. K., Candidate of Technical Sciences, V. V. Kozlov, Engineer, and V. V. Pavlov, Engineer) 379

5. Mechanization of Certain Automatic Lines (Shkolov, K. K., Candidate of Technical Sciences, V. V. Kozlov, Engineer, and V. V. Pavlov, Engineer) 380

6. Mechanization of Certain Automatic Lines (Shkolov, K. K., Candidate of Technical Sciences, V. V. Kozlov, Engineer, and V. V. Pavlov, Engineer) 380

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14. Mechanization of Certain Automatic Lines (Shkolov, K. K., Candidate of Technical Sciences, V. V. Kozlov, Engineer, and V. V. Pavlov, Engineer) 384

15. Mechanization of Certain Automatic Lines (Shkolov, K. K., Candidate of Technical Sciences, V. V. Kozlov, Engineer, and V. V. Pavlov, Engineer) 385

BRASLAVSKIY, V.M.

Undulation of a surface machined with rolls. Stan. i instr. 31  
no. 6:23-25 Je '60. (MIRA 14:2)  
(Grinding and polishing)

BRASLAVSKIY, V. M., Cand. Tech. Sci. (diss) "Investigation and Development of Technology for Strengthening and Finishing of Items by Plastic Surface Deformation," Moscow, 1961, 26 pp (Cent. Sci. Res. Inst. Technology and Machinebuilding) 200 copies (KL Supp 12-61, 264).

S/123/62/000/013/010/021  
A004/A101

AUTHORS: Kulikov, O. O., Braslavskiy, V. M.

TITLE: Hardening of large-size parts by surface workhardening

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 29 - 30,  
abstract 13B181 (In collection: "Kachestvo poverkhnosti detaley  
mashin. v. 5". Moscow, AS USSR, 1961, 39 - 48)

TEXT: The authors investigate devices for and methods of surface hardening by workhardening which have been developed by TsNIITMASH and the Ural'skiy mashinostroitel'nyy zavod (Ural Mechanical Engineering Plant). A multipurpose roller device, which is mounted on the machine tool, has been developed for the hardening of smooth and projecting shaft parts by rolling. The optimum conditions of hardening by rolling depend on the type of the machine tool used. The feed during rolling is taken equal to 1/10 of the width of the contact trace of the roller on the part. Hardening is effected in one pass at a rotation speed of 30 - 80 m/min. With a pressure on the roller of 6 tons, a workhardened layer of 12 - 14 mm is obtained in grade 45 steel and of 5 - 6 mm in 35XHB (35KhNV) grade steel. In

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Hardening of large-size parts by surface workhardening

S/123/62/000/013/010/021  
A004/A101

this case the surface hardness is increased by 60 and 30% respectively. The surface hardening of fillets is carried out by rolling with rollers or balls. The rolling of fillets with a radius of up to 5 - 8 mm is successfully carried out on a single-roller device. For fillets with larger radii (up to 12 mm) it is expedient to effect rolling with balls whose diameter is equal to the double radius of the fillet. It is recommended to harden fillets with a radius of from 12 to 100 mm by fullering with strikers developing a high impact energy. A special device has been developed for hardening the fillets of cylinders of powerful presses by fullering with dynamic impact. Hardening by fullering makes it possible to produce a workhardened layer which is up to 25 - 28 mm deep on parts having very large overall dimensions. The authors present sketches of devices for the surface hardening of parts by workhardening. There are 6 figures and 8 references.

E. Spivak

[Abstracter's note: Complete translation]

Card 2/2

9/123/62/000/0  
A052/A101

AUTHOR:  
TITLE:

Braslavskiy, V. M.  
Roller burnishing finish of machine elements

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1962, 17, abstract  
11B101 (V sb. "Povysheniye dolgovechnosti detaley mashin poverkh-  
nostn. naklepom". Perm', 1961, 45 - 62)  
No. 5

TEXT:

The methods of selecting optimum burnishing conditions are described.  
The burnishing force is determined by the equation  $P = 1.12 \sin \alpha \cdot \frac{b}{a} R^2$ , where  
 $\alpha$  - roller impression angle,  $a$  - imprint semiaxis in the axial section,  $b$  - imprint  
semiaxis in the radial section,  $R$  - roller curvature radius in the axial section.  
A nomograph is given for determining the burnishing force as a function of the  
diameter of the part and of the roller and the curvature radius of the latter.  
Burnishing secures an improvement of the surface finish by 2 - 3 classes. To reach  
better effect it is recommended to apply additional passes, to use rollers with  
longitudinal radius or to increase the burnishing force beyond its rated

S/182/61/000/005/004/006  
D038/D112AUTHOR: Braslavskiy, V.M.

TITLE: Strengthening fillets on large press cylinders by caulking

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, <sup>3</sup>no. 5, 1961, 21-24  
<sub>1</sub>

TEXT: The article contains a detailed description of a caulking device for fillets on work cylinders of heavy hydraulic presses, developed by TsNIIT-MASH. The device was designed to eliminate regular fatigue breakages, such as those that occurred in a 700-ton press cylinder after 200-350 thousand work cycles. The critical point of cracking was located within the fillet zone near the rim which is used for fastening the cylinder to the press crown. The fillet strengthening method by caulking was suggested by Professor I.V. Kudryavtsev. The finally accepted fillet radius was 35 mm. The caulking device consisted of a pneumatic C-358 (S-358) concrete breaker producing 8-kg blows. It was attached to the carriage saddle of a 1500 mm centers-height lathe (Fig. 7). The system consists of a stationary platen fixed on the top of the carriage saddle by bolts (6), a pivoting platen (4) bearing the pneumatic striker (14), and a screw (3). To obtain a stroke with the maximum power the socket with the striker is pulled by springs (13)

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Strengthening fillets on large press...

S/182/61/000/005/004/006  
D038/D112



to the surface being worked. A solid piece with a 15 mm radius or with a ball (7) can serve as the striking tip. Lubricant is forced through a duct (9) to reduce heating of the striker and its guide. A shank on the bottom side of the guide (8) is the pivot axis for the platen (4), and it is operated manually by turning a handle (1). The angle of turn is fixed on a scale (2) with 5 mm divisions (one division corresponds to 0.32 mm turn of the ball). A hose (15) connects the device to an air-pipeline. The spring (13) must be adjusted accordingly to exert about 30 kg pressure on the striker. The pneumatic striker is mounted on the rear carriage saddle of the lathe. The cutter on the front carriage saddle cuts the fillet on the cylinder; after cutting the strengthening device is moved towards the fillet surface until the turn axis of the pneumatic striker coincides with the center of curvature of the fillet. The cylinder is rotated at 0.2 rpm, with a circular feed of 1.5 mm per blow. The striker is turned ten scale divisions after one full revolution of the cylinder, which corresponds to a 3.2 mm turn of the ball along the fillet arc. When the striker is placed at right angles to the tapered transition surface of the fillet, the striker tip is replaced by a larger diameter ball and the 3 mm/revolution longitudinal carriage feed is switched on. As the diameter of the surface is gradually reduced, the carriage saddle with the striker is fed crosswise manually,

Card 2/4

Strengthening fillets on large press...

S/182/61/000/005/004/006  
D038/D112

simultaneously with the mechanical longitudinal feed. Manual cross feed must be set according to the constant gap under the nuts which control the tension of the springs. The butt face of the rim at the cylinder fillet is also caulked, for which purpose the device is returned to zero position and is given a 3 mm/revolution cross feed. A cylinder strengthened by this method is still in operation after 518,000 work cycles of the press, and is in good condition. There are 7 figures and 2 Soviet references.

Card 3/4

Strengthening fillets on large press...

S/182/61/000/005/004/006  
D038/D112

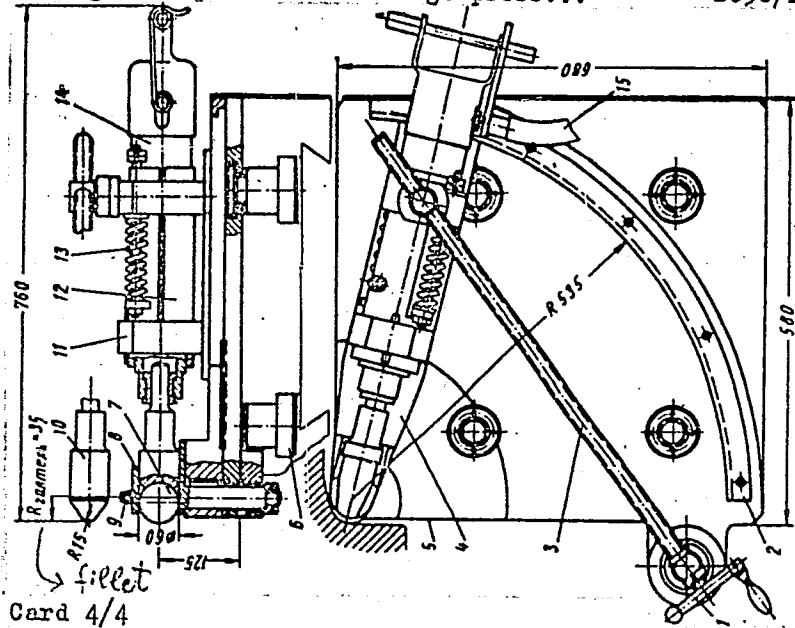


Fig. 7.  
Device for fillet  
caulking on a lathe

1.1730

<sup>26557</sup>  
S/121/61/000/001/004/009  
D040/D113

AUTHOR: Braslavskiy, V. M.

TITLE: Finishing of steel parts using rollers

PERIODICAL: Stanki i instrument, <sup>32</sup>no. 1, 1961, 12-15

TEXT: The article presents detailed information on a method of selecting parameters for a roller-burnishing process, which has been introduced at the Uralmashzavod for surface finishing on various machine tools. The amount of roller pressure selected, depends on the dimensions, surface hardness, initial roughness and finally required finish of the parts. The method is being used for finishing external and internal cylindrical and flat surfaces. Two constants, "m" and "n", characterizing the properties of the workpiece metal were determined empirically using a Brinell press and a 60 mm ball. A graph was constructed (Fig.2) in logarithmic coordinates for  $P=md^n$  (where P is burnishing roller pressure, in kg-f, m - a factor depending on the ball diameter and work material properties, and n - a factor depending on the tendency to workhardening of the work material). By using

Card 1/4

Finishing of steel parts using rollers

26551  
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an impression angle  $\varphi$  of  $2^{\circ}30'$  the appearance of waves on the surface is reliably prevented. The calculation is simplified by assuming that the  $\varphi$  angle depends on the diameter and curvature radius in axial cross section of the roller only. The dependence of required effort on the workpiece diameter, roller diameter, and roller curvature radius in axial cross section is presented in a nomogram (Fig.3). This nomogram applies to steel grade "20" of low hardness. For burnishing other steel, the values have to be multiplied by a "K" factor. Its values, which vary from 0.8 to 3.2 for steel of different hardness, are given in a table. A graph is included showing the dependence of the burnished surface roughness on the initial surface roughness at different impression angles of the roller. Feed and number of burnishing passes are selected in accordance with the curvature radius of the roller, the initial and the required surface finish, and the number of rollers in the burnishing fixture. In most cases, only one pass is needed. Burnishing without feeding the roller, results in 4 to 6 classes higher finish; however, it can only be used on narrow surface belts, fillets or grooves. Burnishing with feed improves the surface smoothness by 2-3 classes. There are 4 figures, 2 tables and 1 Soviet reference.

Card 2/4



OSTROUMOV, Vladimir Pavlovich; YELIZAVETIN, Mikhail Alekseyevich;  
~~BRASLAVSKIY, V.M., inzh., retsenzent;~~ KALETIN, Yu.M., inzh.  
retsenzent; DUGINA, N.A., tekhn. red.

[Increasing the strength of gear wheels]Povyshenie prochnosti  
zubchatykh koles. Moskva, Mashgiz, 1962. 89 p. (MIRA 15:8)  
(Gearing) (Metals---Hardening)

SAMOYLOV, Sergey Ivanovich, prof.; GORELOV, Valentin Mikhailovich, inzh.;  
BRASLAVSKIY, Veniamin Markovich, kand. tekhn. nauk; KONDRATOV,  
Yuriy Nikolayevich, inzh.; KALININ, Ignat Andreyevich, inzh.;  
KUROCHKIN, Vasiliy Mikhailovich, inzh.; POPOV, Vladimir  
Artem'yevich, inzh.; KOZLOV, Kirill Georgiyevich, inzh.; FEDOROV,  
Boris Fedorovich, kand. tekhn.nauk; STEPANOV, Valentin  
Vladimirovich, kand. tekhn. nauk; DUGINA, N.A., tekhn. red.

[Technological processes in the manufacture of heavy machinery]  
Tekhnologiya tiazhelogo mashinostroeniia. Pod red. S.I.Samoilova  
Moskva, Mashgiz, 1962. 589 p. (MIRA 16:4)  
(Machinery industry)

VOLKOV, Yu.V.; VOLKOVA, Z.A.; KAYGORODTSEV, L.M.; ~~BRASLAVSKIY,~~  
V.M., kand. tekhn. nauk, retsenzent; KUMANIN, V.I.,  
inzh., red.

[Durability of machines operating in an abrasive medium]  
Dolgovechnost' mashin, rabotaiushchikh v abrazivnoi sre-  
de. Moskva, Izd-vo "Mashinostroenie," 1964. 114 p.  
(MIRA 17:6)

BRASLAVSKIY, V.M., kand. tekhn. nauk

Burnishing large shafts with wide self-adjusting rolls.  
Vest. mashinostr. 44 no. 2:39-43 F '64. (MIRA 17:17)

BRASLAVSKIY, V.M., kand. tekhn. nauk

Burnish finishing. Sbor. st. NIITIAZHMASHa Uralmashzavoda  
no.4s3-43 '64. (MIRA 17:12)

(N) L 11795-66 EWP(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c)

ACC NR: AT6000062 TJP(c) M.W./3D/HW/ EM/DJ/GS SOURCE CODE: UR/0000/65/000/000/0078/0088

AUTHORS: Braslavskiy, V. M.; Kulikov, O. O.

ORG: Conference on Strengthening Machine Parts, Moscow (Soveshchaniye po uprochneniyu detaley mashin)

TITLE: Surface deformation and residual stresses in cold rolling of heavy axes

SOURCE: Soveshchaniye po uprochneniyu detaley mashin, Moscow, 1962. Uprochneniye detaley mashin mekhanicheskim naklepyvaniyem (Work hardening of machine parts); trudy soveshchaniya, Moscow, Izd-vo Nauka, 1965, 78-88

TOPIC TAGS: metal surface, metal hardness, metal hardening, metal deformation, cold rolling, duraluminum, plastic deformation, metal stress, surface hardening, steel

ABSTRACT: The cold rolling treatment of heavy metal bars to produce surface deformations and residual stresses as a result of plastic deformation at the metal surface is discussed. Details of the rolling process are given, including the method of feeding and the type of contact. The sequence of formation and stabilization of the metal "wave" produced in the treatment of a part is explained and diagrammed. Data are presented on the depth of the groove obtained in various rolling treatments on duraluminum and on steels 20, 5, 50, 35KhN, and Kh2N2G. These data are used to obtain an empirical formula  $L = 4\sqrt{\frac{P}{H}}$

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L 11795-66

ACC NR: AT6000062

4

for the width of the groove. Here  $L$  is the groove width,  $P$  is the rolling force in kilograms, and  $H$  is the Brinell hardness of the metal in  $\text{kg/mm}^2$ . The distribution of surface hardness was studied with respect to the rolling parameters. The dimensions and hardness of the rolled surfaces of several metals are tabulated. The method of Zachs was used to determine tangential and radial residual stresses. Formulae used are

$$\sigma_t = E \left[ (F_H - F) \frac{d\epsilon}{dF} - \frac{F_H + F}{2F} \epsilon \right],$$

$$\sigma_r = E \frac{F_H - F}{2F} \epsilon,$$

where  $\sigma_t$  and  $\sigma_r$  are the tangential and radial stresses respectively,  $F = \pi R^2$  is the studied layer's surface area,  $E$  is the modulus of elasticity,  $F_H$  is the area corresponding to the inner diameter of the disk, and  $\epsilon = f(F)$  is the relative variation of the inner diameter. The effects of various stress categories are shown graphically, and residual stresses occurring in steels 50 and 34KhNIM are compared. Graphs are also presented showing the effect of pressure on hardening and residual stresses. Orig. art. has: 6 figures, 4 tables, and 5 equations.

24  
SUB CODE: 11/ SUBM DATE: 24Apr65/ ORIG. REF: 011/ OTH REF: 002

Card 2/2 HW

BRASLAVSKIY, Ye.M.; GOLUBCHIK, L.Kh.; MOTAYLOV, T.G.

Some defects in excavators made at the Kovrov plant. Mekh.  
stroi. 18 no.5:21-22 My '61. (MIRA 14:7)

1. Trest Ukrekskavatsiya.  
(Kovrov--Excavating machinery)



BRASLAVSKIY, Ye.M., inzh.; DEGTYAREV, A.P., inzh.

Working a rock excavation with scrapers. Mekh.stroi. 18 no.7:  
19-23 JI '61. (MIRA 14:7)

1. Trest Ukrekskavatsiya.  
(Scrapers) (Excavation)

BRASLAVSKIY, Z. [Braslavs'kiy, Z.]

New career of glass. Nauka i zhyttia 12 no.2:7-8 F '63.  
(MIRA 16:4)

(Glass manufacture)

BRASIANSKI, Edward, mgr inż.; JACOBOWSKI, Tadeusz, mgr inż.

Analysis of selecting the optimum construction for ore and grain ships. Bad okecie Warszawa 9 no.5:169-172. Ry '64

1. Kocmy Maryskiej Shipyard, Gdynia.

publ.: November 11th 1955  
rec.: January 30th 1956  
reviewed: February 20th 1956  
transl.i.e.: February 23rd 1956

628

Dokl. Akad. Nauk, 105, 271-274 (1955)

E A Generalization of the Variation- and Compensation  
Theorem for the  $n$  - Parameter of an Electric Circuit.  
(Russian)

by N. A. BRASNA

(over)

Translation D 419421, p. 67

*W. A. Brama*

§ 1)  $n$  ( $n \geq 1$ ) branches of an electric circuit (either all or only part of the branches of the electric circuit may be concerned) are investigated. With the usual application of the compensation principle it follows that the common modification of the resistances  $\delta Z_1, \delta Z_2, \dots, \delta Z_n$  is equivalent to the connected electromotoric force. 2/5

$- I_1' \delta Z_1, - I_2' \delta Z_2, \dots, - I_n' \delta Z_n$  into the corresponding branches at the old values of the resistances. To the electromotoric force  $- I_p' \delta Z_p$  of a certain branch  $p$  there corresponds a strong modification of current  $\delta I_q = - Y_{qp} I_p' \delta Z_p$

D. A. Brasma

in the branch  $q$ , whereby  $Y_{qp}$  is the mutual conductivity of the branches  $q$  and  $p$  at the old resistance values. Next, an expression for the sum  $\delta I_p$  of the modifications of current intensity in all branches is given. The relationships between old and new current intensities in the branches are  $I_p' = I_p + \delta I_p$ , and are then expressed in matrix form. For the matrix of the modification of current intensity there follows  $\delta I = - (Y \delta Z / (E + Y \delta Z)) I$ . If there is only one branch ( $n = 1$ ), the matrices degenerate to ordinary numbers and the just mentioned formula expresses the ordinary variation theorem. Another advantageous form for this

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D. A. Braema

theorem is:  $\sqrt{I} = (E + Y\sqrt{Z})^{-1}I - I$ . The matrix equations obtained are various forms of expression of the variation theorem for the  $n$  parameters of an electric circuit. Also the special case in which some of the  $\sigma Z_n$  are equal to zero is discussed.

4/5

§ 2) If all characteristic numbers of the matrix  $Y\sqrt{Z}$  are smaller than 1 with respect to the modulus,  $(E + Y\sqrt{Z})^{-1}$  is divided up into a matrix power series, and, after elimination of all terms upward from the second and third, the

N. A. Brasua

approximated matrix equations  $\int I = -Y \int Z I$  and  $\int I = -Y \int Z I + (Y \int Z)^2 I$  are obtained. These formulae characterize the approximated compensation theorem for the n parameter of the electric circuit and are transferred into the ordinary compensation theorem for n = 1.

5/5



KACZMAREK, Jan, prof. dr inz.; POLANSKI, Zbigniew, dr inz., adiunkt; SUMMER-  
BRASON, Krzysztof, mgr inz., st. asystent

Results of studies on the time and technological utilization  
of the machine tool park as a reserve for increased production.  
Przeł mech 24 no.6:163-167 25 Mr '65.

1. Department of Metal Machining of the Krakow Technical University.

BRASOVAN, M.

Behavior of different alloyws used for the manufacture of electric spotwelding machines. p. 36. METALURGIA SI CONSTRUCTIA DE MASINI. (Ministerul Industriei Metalurgice si Constructiilor de Masini si Asociatia Stiintifica a Inginerilor si Tehnicilelor) Bucuresti.  
Vol. 8, No. 4, Apr. 1956.

SOURCE: East European Accessions List. (EEAL) Library of Congress  
Vol. 5, No. 11, November, 1956.

BRASOVAN, M.

Choice of a Driving Motor for a Butt Welding Generator. Electrical Engineering,  
#5:171:May 55

BRASOVAN, M.; VAZDAUTEANU, V.; SERACIN, E.; PRODAN, M.

Experimental studies on steering wheel control in a laboratory installation. Bul St si Tehn Tim 7:197-205 '62.

BRASOVAN, Mihai, ing.; BOGOEVICI, Nicolae, ing.

Piezoelectric support for measuring the lathe splintering  
force. Metalurgia constr mas 13 no. 3: 264-266 Mr '61.

BRASOVAN, R. and VLATKOVIC, B.

"Effect of Chemical Substances on Healing Wounds of Albino Rats" p. 75  
(ZBORNIK RADOVA, Vol. 25, no. 2, 1952, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2,  
No. 10, October, 1953, Unclassified

BRASOVEANU, Gheorghe

Multilateral support in increasing the role of the foremen  
in production. Munca sindic 7 no.6:15-17 Je '63.

1. Secretarul comitetului sindicatului de la Exploatarea  
miniera Filipestii de Padure.

RUM .

7 2131. New gravimetric method for the determination of benzidine. P. Svaru, M. Braso-  
vesanu and V. Sturzaonescu (Comm. RPS, R.P.  
ROMANA, 1958, 3 (6-9), 217-221; Referativnyi Zh.  
Khim., 1954, Abstr. No. 40,052).—Reinecke's salt  
 $[\text{Cr}(\text{NH}_4)_2(\text{SCN})_6]\text{NH}_4$  precipitates benzidine from  
HCl or acetic acid soln. as violet-red crystals of  
 $[\text{Cr}(\text{NH}_4)_2(\text{SCN})_6]_2 \cdot \text{H}_2\text{C}_6\text{H}_4 \cdot \text{H}_2\text{N}_2$ . *Procedure*—Add a  
ten-fold excess of a freshly prepared soln. of  
Reinecke's salt to an aq. soln. of benzidine hydro-  
chloride acidified with HCl. After 30 min., collect  
the ppt. in a crucible and wash it with a soln.  
containing 0.13 g of Reinecke's salt and 0.125 ml of  
conc. HCl per 100 ml of water and then with two 1-ml  
quantities of water. Dry in a vacuum-desiccator  
and finally in an oven at 105° C. The ppt. is  
soluble in ethanol and ether. E. HAYES

AA  
S



ROMANIA/Chemical Technology. Chemical Products and Their  
Application. Pharmaceuticals. Vitamins. Antibiotics.

H-17

Abs Jour: Ref Zhur-Khin., No 2, 1959, 5755.

Author : Spacu, P.; Roboiu, F.; Brasoveanu, M.

Inst : Bucharest Polytechnical Institute.

Title : Gravimetric Method of Determination of Vitamin B<sub>1</sub>.

Orig Pub: Bul. Inst. politehn. Bucuresti, 1956, 10, No 3-4,  
169-173.

Abstract: A method of gravimetric determination of vitamin B<sub>1</sub>  
in its pure solutions is proposed: the vitamin is precipi-  
tated at 18° with an excess of the aqueous solution of  
tetrathiocyanidediaminochrome of ammonium NH<sub>4</sub>/Cr(SCN)<sub>4</sub>-  
(NH)<sub>2</sub> · 2H<sub>2</sub>O in the medium of acetic acid (pH = 2.6); 1 hour  
later the rose-violet crystalline precipitate is separated  
with a filter crucible, washed with distilled water,

Card : 1/2

ROMANIA/Chemical Technology. Chemical Products and Their  
Application. Pharmaceuticals. Vitamins. Antibiotics.

H-17

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5755.

dried at 105° for 30 min. and placed with the crucible  
into a desiccator. After 30 min. the crucible is  
weighed and the weight of vitamin is calculated. The  
conversion factor is 0.3661. - A. Vavilova.

Card : 2/2

94

RUMANIA/Chemical Technology. Pharmaceuticals. Vitamins.  
Antibiotics.

H

Abs Jour: Ref Zhur-Khin., No 24, 1958, 82722.

Author : Spacu P., Brasoveanu M., Roboiu F.

Inst :

Title : A New Gravimetric Method for Determining  
Acridine.

Orig Pub: Bul. Inst. politech. Bucuresti, 1956, 18, No 3-4, 175-  
179.

Abstract: By the reaction of a solution of acridine (I) with  
a freshly prepared solution of  $\text{NH}_4$ -Reinecke salt  
(II) in acetic acid medium, the yellow crystalline  
precipitate  $[\text{C}_R(\text{NH}_3)_2(\text{CNS})_4] \cdot \text{HC}_13\text{H}_9\text{N}$  salt is formed,  
which dissolves in alcohol and ether, and is sparingly  
soluble in water. Ten ml of 0.4% solution of I, acidi-

Card : 1/2

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RUMANIA/Chemical Technology. Pharmaceuticals. Vitamins.  
Antibiotics.

H

Abs Jour: Ref Zhur-Khin., No 24, 1958, 82722.

fied with acetic acid, is diluted with 100 ml of H<sub>2</sub>O and dropwise with stirring and heating to it is added within 10-15 minutes a filtered solution of 0.3 grams of II in 30 ml water. After onehour the precipitate is filtered off, is washed with a small portion of solution of 0.13 grams of II and 2 ml of acetic acid in 250 ml of water and with water (twice, with 1 ml). The precipitate is dried for 30 minutes in a vacuum desiccator and for 30 minutes at 105°C. I can be determined also in hydrochloric acid solution.

Card : 2/2

BRASOVEANU, N.

Additions to the rational combination of mechanical-traction and animal-traction power on collective farms. p. 1193.

(COMUNICARILE. Rumania. Vol. 6, no. 10, Oct. 1956)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

BRASOVEANU, N.

Ways of reducing operating cost in machine and tractor stations.  
Probleme econ 14 no.10:48-61 '61.

BRASOVEANU, Victor, technician 1

Some peculiarities of the new Route Guide. Rev sailor fer 11  
no.9:495-496 S '63.

1. Directia MC.

BRASOVITSKAYA, S.G.

GRASHCHENKO, N.I.; BLYUMENFEL'D, L.A.; BRASOVITSKAYA, S.G.; PEREL'MAN, L.B.;  
SMIRNOV, Yu.K.

Oxygen requirement of tissues and functional conditions of hemoglobin  
in myasthenia. Dokl. AN SSSR 100 no.1:191-192 Ja '55.      (MLRA 8:2)

1. Ohlen-korrespondent AN SSSR (for Grashchenko)  
(MYASTHENIA, GRAVIS,  
hemoglobin in & tissue oxygen requirement)  
(METABOLISM,  
oxygen requirement by tissue in myasthenia)  
(HEMOGLOBIN,  
in myasthenia gravis)



RUMANIA/Chemical Technology - Cellulose and Its Derivatives. H-33  
Paper.

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83785

Author : Waiss, E., Brassat, R.

Inst : -

Title : The Barking of the Balance Timber in a Rotary Drum of the Villen Type on a Cellulose Plant "Reconstuctia".

Orig Pub : Celuloza si hirtie, 1958, 7, No 5, 178-183.

Abstract : A review is given on barking machines in use. The problem of barking in rotary drums of the Villen type is examined and description of the set-up is given.

Card 1/1

BRASSCI, F.

"Tasks for our Forging Industry in 1954", P. 22, (KOHASZATI LAPOK, Vol. 9, No. 1, January 1954, Budapest, Hungary)

SC: Monthly List of East European Accessions (DEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

BRASYUNAS, V.B., PODZHYUNAS, A.S. [PODŽIUNAS, A.S.]

Production of l-hydroxyphthalazine. Med.prom. 12 no.7:47-50 J1 '58  
(MIRA 11:8)

1. Kaunasskiy gosudarstvennyy meditsinskiy institut.  
(PHTHALAZINE)

BRASYUNAS, V.B.; PODZHYUNAS, A.S. [Podžiūnas, A.S.]

Synthesis of l-chlorphthalasine. Med.prom. 13 no.1:38-40  
Ja '59. (MIRA 12:10)

(PHTHALASINE)

BRASYUNAS, V.B.; PODZHYUNAS, A.S.

Synthesis of apressin. Med.prom. 13 no.12:20-22 D '59.

(MIRA 13:4)

1. Kumasskiy meditsinskiy institut.  
(PTHALAZINE)

BRASUNAS, V.B.; PODZHYUNAS, A.S.

Synthesis of l-mercaptophthalazine. Med. prom. 13 no.8:53-56 Ag  
'59. (MIRA 13:8)

1. Kaunasskiy meditsinskiy institut.  
(PHTHALAZINE)

PIEPRZNIK, Stefan, mgr inz.; BRASZCZYNSKI, Janusz, mgr inz.; BRZECZEK,  
Marian, inz.

350 years of the Blachownia Metallurgical Works. Przegl odlew  
12 no.1:2-7 Ja '62.

7/041/63/000/001/003/004  
E160/E492

AUTHOR: Brát, Vladimír, Candidate of Sciences

TITLE: Universal joint

PERIODICAL: Strojnícky časopis, no.1, 1963, 51-58

TEXT: The universal joint permits transmission of rotational movement between two shafts where both, distance as well as the angle between the shafts, vary. The author deals with this mechanism and sets himself a double task: to describe the kinematic solution, i.e. relating translational and rotational movements of neighbouring pairs of driven links using the matrix method and, secondly, to apply this method to other cases. The analysis is based on the transformation matrix equation of the mechanism under consideration. This equation is formed by combining matrix equations describing the relative movement of pairs of neighbouring links of this kinematic chain. The basic equation can then be broken up into nine (in fact six only are required) scalar equations which give the dependent translational and rotational parameters of the mechanism. Since space mechanisms (even with several degrees of freedom) which derive from  
Card 1/2



Universal joint

Z/041/63/000/001/003/004  
E160/E492

a closed kinematic chain have exactly six dependent parameters, the basic transformation matrix equation gives a complete kinematic solution of such a system. Velocities and accelerations of the various links may then be obtained by simple derivations with respect to time. Hooke's joint and Oldham's coupling are shown to be particular cases of the universal joint and the theoretical treatment in its simplified form, due to a reduced number of degrees of freedom, is applied to them. The matrix method, shown in this article in its simpler form, can be used for a great variety of the most complicated space mechanisms. There are 6 figures.

ASSOCIATION: Katedra mechaniky fakulty strojní ČVUT, Praha  
(Mechanics Department of the Engineering Division  
ČVUT, Prague)

SUBMITTED: July 6, 1962

Card 2/2

BRAT, Vladimir

"Introduction to technical mechanics" by Istvan Szabo. Reviewed  
by Vladimir Brat. Stroj vyr 11 no.6:326 Je '63..

BRAT, Vladimir, CSc.

"Mechanics; trends in mechanical engineering" by E.Menge, E.  
Zimmermann, Reviewed by Vladimir Brat. Stroj vyr 11 no.9:476-  
477 S '63.

BRAT, Vladimir, CSc.

"Short course and examples in technical mechanics" by Istvan Szabo. Reviewed by Vladimir Brat. Stroj vyr 12 no.3:238 '64.

BRAT, Vladimir, CSc.

Matrix method of kinematic solution of space mechanisms with lower kinematic pairs. Rozpravy techn CSAV 75 no.2:1-94 '65.

1. Czech Higher School of Technology, Prague.

Брaтaл'ский, Ye. A.

YEPAHESHNIKOV, M.M., kandidat tekhnicheskikh nauk; BRATAL'SKIY, Ye.A.,  
inzhener

Lighting in the sorting sections of postal communication enterprises. Svetotekhnika 1 no.3:19-21 Je'55. (MIRA 8:10)

1. Moskovskiy energeticheskiy institut (for Yepaneshnikov) 2. Laboratoriya okhrany truda Ministerstva svyazi SSSR. (for Bratal'skiy)

(Postal service) (Electric lighting)

BRATAN, Maria, okleveles mérnök; CSONGRÁDY, Kornél, okleveles mérnök;  
ZSUFFA, István, dr., okleveles mérnök, hidrológus mérnök

Hydrologic conditions of floods and inland waters in Central  
Dunantúl. Vizügyi közl no.3:300-319 '63.

I. Közepdunantúli Vizügyi Igazgatóság.

ACC NR: AP7003295      (N)      SOURCE CODE: UR/0177/66/000/012/0074/0075

AUTHOR: Bratanchuk, D. F. (Major; Medical service); Vozisov, I. A.  
(Major; Medical service)

ORG: none

TITLE: The use of the portable DP-2 apparatus for mass oxygen inhalation

SOURCE: Voenno-meditsinskiy zhurnal, no. 12, 1966, 74-75

TOPIC TAGS: biologic metabolism, hyperoxia, clinical medicine, ~~oxygen~~  
~~inhalation, oxygen therapy~~, OXYGEN CONSUMPTION, MEDICAL  
EQUIPMENT

ABSTRACT: The portable DP-2 apparatus has been suggested for mass oxygen inhalation. The equipment is built with one-cm rubber tubes, three-inch plastic tubes, oxygen funnel inhalers, and polyvinyl chloride or transparent oilskin sacks. The design of the system is shown in Fig. 1.

Card 1/3

UDC: 615.473:615.777.4



ACC NRAP7003295

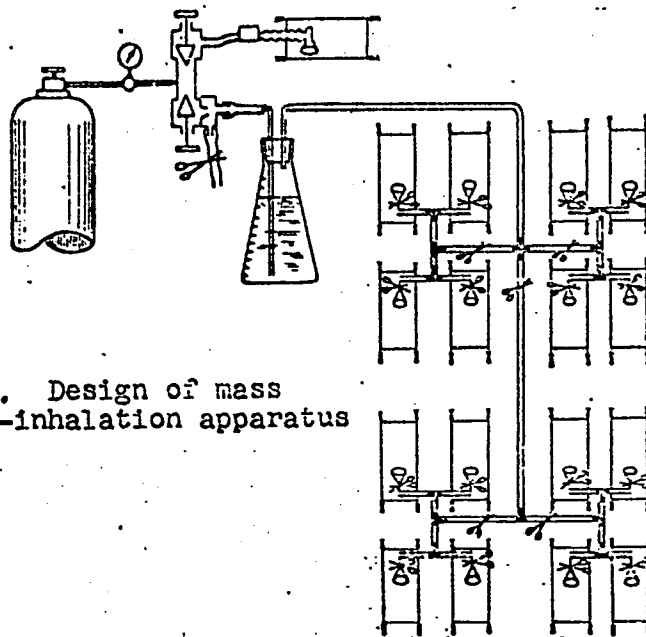


Fig. 1. Design of mass oxygen-inhalation apparatus

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The volume of oxygen conveyed per min relative to the number of inhalers can be calculated according to the formula  $\frac{V}{Q} = \frac{V \cdot 60}{t \cdot 60}$  to be:  
2 inhalers→4 l; 4 inhalers→8 l; 6 inhalers→12 l; 8 inhalers→16 l; 10 inhalers→ 20 l; 12 inhalers→24 l; 14 inhalers→28 l; 16 inhalers→32 l. Pure oxygen is fed into the system through a rubber tube attached to the nozzle of the injector; at the same time a short rubber tube on the filtering nozzle of the apparatus is cut off by a clamp. To create an oxygen-air mixture, the intake nozzle of the aspirator is kept open so that atmospheric air is drawn in. Oxygen content varies from 35--60% depending on the intake rate. The valve is gaged for intake of the oxygen mixture by a similar method. The amount of oxygen or oxygen-air mixture necessary is calculated relative to the number of inhalers. An advantage of the system is that it may be used on the battlefield when there are insufficient standard oxygen inhalation stations. It is also recommended for hospitals for educational and practical purposes.

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[SC]

SUB CODE: 06/ SUBM DATE: none

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(TUBERCULOSIS, MENINGEAL, metabolism,  
blood & CSF albumin & globulin, eff. of streptomycin ther. (Bul))

(ALBUMIN,  
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(GLOBULIN,  
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(MENINGITIS, diagnosis,

blood & CSF sedimentation index (Bul))

(CENTRAL NERVOUS SYSTEM, diseases,

same)

(BLOOD SEDIMENTATION, in var. dis.

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TITLE: The Solubility of Thallium and Cesium Cobalti-Nitrite (Rastvorimost' nitrokobal'tiatov talliya i tseziya)

PERIODICAL: Zhurnal Neorganicheskoy Khimii 1958, Vol 3, Nr 5, pp 1188-1191 (USSR)

ABSTRACT: The solubility of thallium cobalti-nitrite in water at 10 to 30°C and in solutions of chlorides, nitrates and sulfates of sodium at 20°C was determined. The solubility product of thallium cobalti-nitrite at 20°C amounts to  $1,4 \cdot 10^{-15}$ , at 10°C to  $8,5 \cdot 10^{-16}$ , at 30°C to  $6,6 \cdot 10^{-5}$ . The solubility of thallium cobalti-nitrite substantially decreases according to the increase of the concentration of thallium nitrate (0,0-0,06mol/l). In the presence of NaCl, NaNO<sub>3</sub> and NaSO<sub>4</sub>, the solubility of thallium cobalti-nitrite increases,

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The Solubility of Thallium and Cesium Cobalti-Nitrite 78-3-5-22/39

especially in the presence of sodium sulfate. The solubility of cesium cobalti-nitrite in water at 20°C and in solutions of nitrates and sulfates of sodium, as well as in magnesium nitrate, was investigated. The solubility product of cesium cobalti-nitrite in water at 20°C amounts to  $3.5 \cdot 10^{-16}$ . The solubility of cesium cobalti-nitrite increases according to the concentration of sodium nitrate, sodium sulfate and magnesium nitrate. There are 1 figure, 5 tables, and 3 references, 2 of which are Slavic.

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im.N.I. Lobachevskogo (Gor'kiy State University imeni N.I.Lobachevskiy)

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