CIA-RDP86-00513R000307030001-7

SMIRNOV, A.I., kand. tekhn. nauk. dotsent; BROVKINA, Ye.P., aspirant Investigating the wear resistance of sulfur containing cast irons. Izv. vys. ucheb. zav.; mashinostr. no.2:154-161 '65. (MIRA 18:5)
1. Odesskiy politekhnicheskiy institut.

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BROVKINA, Ye.P.; SMIRONOV, A.I.; GRISHCHUK, N.S.; DOTSENKO, P.V.; SOTNIKOV, A.A.

Effect of sulfur on the wear-resistance of cast iron. Izv.vys. ucheb.zav.; chern. met. 8 no.4:183-185 45.

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1. Odesskiy politekhnicheskiy institut.

(MIRA 18:4)

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CIA-RDP86-00513R000307030001-7

BROVKINA, Ye. T., Cand Biol Sci (diss) -- "The biology of the thrush and their forest-economy significance". Moscow, 1960. 16 pp (Moscow City Pedagogical Inst im V. P. Potemkin, Chair of Zoology), 150 copies (KL, No 10, 1960, 128)

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TAVHOVSKIY, V.A., doktor biol. nauk, otv. red.; BROVKINA, Ye.T., red.; SABLINA, T.S., red.

[Studies on the ecology, dynamics of abundance and diseases of mammals of Jakutia] Issledovaniia po ekologii, dinamike chislennosti i bolezniam mlekopitaiushchikh IAkutii. Moskva, Izd-vo "Nauka," 1964. 285 p. (MIRA 17:6)

1. Akademiya nauk SSSR. Yakutskiy filial, Yakutsk. Institut biologii.

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YAKOBI, V.E.; KOKSHAYSKIY, N.V.; BORODULINA, T.L.; SHESTAKOVA, G.S., doktor biol. nauk, prof., otv. red.; BROVKINA, Ye.T., red.izd-va; KHENOKH, F.M., takhn. red.

> [Functional morphology of birds] Funktsional'naia morfologiia ptits. Moskva, Izd-vo "Nauka," 1964. 91 p. (MIRA 17:4)

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DEMENT'YEV, G.F., otv. red.; BROVKINA, Ye.T., red.

[Migrations of birds and mammals] Migratsii ptits i mlekopitaiushchikh. Moskva, Nauka, 1965. 158 p. (MIRA 18:5) 1. Akademiya nauk SSSR. Otdeleniye obshchey biologii.

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BROVKINA, Z.V.

"ze of anesthesia in eye clinics. Sbor, nauch, trud. SOGMI no 14:198-204 463. (MIRA 18:9)

1. Respublikanskaya klinicheskaya bol'nite; Ordzhonikidze. Naushnyy rukovoditel' - prci. M.N. Bugulav.

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BROVKO, Aleksey Fetrovich; VORONTSOV, V.G., retsonzent: YERMANIK

V.Ye., retsenzent; ZAKHAROV, A.P., retsenzen, KROPACHEV, V.P., retsenzent; PASTUKHOV, N.V., retsenzent; PEREGUDOV, V.V., retsenzent; PONOMAKEV, V.A., retsenzent; RUDEV, A.M., retsenzent; KHROFUNSKIY, Ye.A., retsenzent; SMIRNOV, A.A., inzh., retsenzent

[Contact networks in strip mines] Kontaktnaia set' na kar'erskh. Moskva, Nedra, 1964. 207 p. (MIRA 18:2)

1. Inzhenerno-tekhnicheskiye rabotniki Korkinskogo tresta ugol'nykh predpriyatiy (for all except Brovko).

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**计拉口信号**研究的通知

CIA-RDP86-00513R000307030001-7

ZHIVOTINSKIY, L.A., inzhener; BEOWKO, I.A., inzhener Gontinuous-flow process for welding joints on bollers in steam power installations. Swar.proixv. no.10;23-26 0'55. (MIRA 8:12) 1. Vsesoyusnyy proyektno-tekhnologicheskiy institut Ministerstva tyahelogo mashinostroyeniya (Boilers--Welding)

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	SUBJECT:	USSR/Welding
	AUTHOR:	Brovko, I.A. 135-4-7/15
	TITLE:	Universal Welding Manipulator (Universal'nyi svarochnyi mani- pulyator).
	PERIODICAL:	
	ABSTRACT:	Design and operation of a holding device for various metal structures up to 1200 kg weight, symmetrical as well as unsym- metrical, (frames, beams, housing, etc). The device is hand- controlled, and enables the operator to manipulate the work- piece into convenient positions in order to get access to all
	Card 1/2	The experimental manipulator has been tested and accepted for series production. It is being produced by the plant "Metallist" and presently it is used by the Mogilev Crane Building Plant. It accommodates parts of up to 2500 x 2500 x 1000 mm in size, turns them $360^{\circ}$ in the vertical as well as in the horizontal plane, and tilts up to $30^{\circ}$ to one side. Its advantages are: no need for highly skilled operators, $50 \%$ cut of time required
<i>6</i>	·	cut of time required

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C B THE

. TITLE:	135-4-7/15 Dulyator).
	for auxiliary operations, saving of space, simple design, reliability.
	The article contains 1 drawing, 1 kinematic scheme, 1 series of sketches, 1 photograph.
ASSOCIATION:	BATIANTM (VPTI ETM) Elitation Planning, technological Leat min. Transport Machine Building
PRESENTED BY	: min. Machine - B. 21.
SUBMITTED:	- Unicent
AVAILABLE:	At the Library of Congress.
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25 (2)	
AUTHOR:	Brovko, L. A., Engineer SOV/135-59-4-9/18
TITLE:	The Mechanized Walking a
PERIODICAL:	Subject to the subject of the subjec
ABSTRACT: Card 1/2	Svarochnoye proizvodstvo, 1959, Nr 4, pp $32 - 34$ (USSR) The new "SM-5000" welding manipulator, designed by the author, is described and illustrated. It accommodates work of up to $3500x3500x1000$ mm size and $5000$ kg weight, turns the work table $360^{\circ}$ in 1 minute (both sides in horizontal plane) or tilts it at 0.6 revolution per minute on the horizontal axle, and lifts 700 mm by means of a hydraulic table drive consisting of an asynchronous electric motor, a vane pump and an oil container. All functions can be handled by the control board. The first experimental unit was completed in February 1958 at the Moscow plant "Metallist" and successfully passed the tests. The manipulator reduces welding time by 10 -15%
	and cuts down auxiliary work by 1.5 - 2 times.

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The Mechanized Welding Manipulator "SM-5000"

sov/135-59-4-9/18

Since July 1958, it has been in operation at the Kclomenskiy teplovozostroitel'nyy zavod im. Kuybysheva (KoloLna Diesel-Locomotive Plant imeni Kuybyshev). The first manipulators will be built in 1959 by the Moscow plant "Metallist" for plants producing heavy machinery. There is 1 photograph and two sets of diagrams. Engineer A. I. Kleyner and Technician V. I. Karetnikova participated in the development of the manipulator.

ASSOCIATION: Vsesoyuznyy proektno-tekhnologicheskiy institut tyazhëlogo mashinostroyeniya (All-Union Institute of Heavy Machine-Building Design and Technology).

Card 2/2

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CIA-RDP86-00513R000307030001-7

18(5), 25(1)	S0V/135-59-11-12/26
AUTHOR:	Brovko, I.A., Engineer
TITLE:	Universal Welding Manipulator USM-1200
PERIODICAL:	Svarochnoye proizvodstvo, 1959, Nr 11, p.) 29-31 (USSR)
ABSTRACT :	The new welding manipulator of a 1200 kg lifting capacity (Fig 1) is fully mechanized. It was developed by the VPTI; in addition to the author of this article, the following persons participated in the work: A.I. Kleyner, V.A. Berezkina, Engineers and V.I. Karet- nikova, Technician. All movements of the work-piece fastened on the manipulator table are performed by individual electromechani- cal drives. The work-piece can rotate with a given speed around the table axis; it can be turned with respect to the horizontal axis or lifted. In Fig 2, a kinematic layout of the manipulator is given. It is intended, on the whole, for welding circumferen- tial seams; otherwise it can be used for hand- or automatic weld- ing of different metal structures. With the aid of this manipula- tor, units up to 1200 kg in weight and up to 2.5 x 2.5 x 1 m in
Card $1/2$	size can be welded. The table can rotate in both directions with

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SOV/135-59-11-12/26

Universal Welding Manipulator USM-1200

a speed of 2.262-0.056 rpm. The experimental specimen of the manipulator was manufactured in 1958 at the Plant "Metallist". Construction of the manipulator USM-1200 was inspected at the Institute of Electric Welding imeni Ye.O. Paton of the AS UkrSSR, and was regraph.

ASSOCIATION: VPTI tyazhelogo mashinostroyeniya (VPTI of Neavy Machine-Building)

Card 2/2

"APPROVED FOR RELEASE: 08/22/2000 自然的科学家设计研究和开始

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A CONTRACTOR OF A CONTRACT OF A CONTRACT

18(5) AUTHORS:	Brovke, I.A., and Boyeva, K.I.
TITLE:	New Welding Technology at the USSR National Economy Achievements Exhibition of 1959
PERIODICAL:	Svarochnoye proizvodstvo, 1959, Nr 11, pp 36-40 (USSR)
ABSTRACT :	At the 1959 Exhibition, the following new welding equipment was demonstrated: Automatic submerged-arc welding (2 units are brief- ly described in this article); Electroslag welding (2 units); Welding of metals in protective gases (10 units); Automatic vibro- arc surfacing (3 units); Friction welding (1 unit); Cold (press) welding (5 units); Ultra-sonic welding of thin sheet metals (2 units); Diffusion welding in vacuum (1 unit); Condenser welding of thin metals (5 units). The equipment and devices were con- structed by: TSNIITMASH, Institute of Electric Welding imeni Ye. O. Paton, NIAT, VNIIESO, NIIKHIMMASH, Chelyabinsk Plant imeni S.
Card 1/2	Institute of Electrotechnics AS UkrSSR, Laboratory of Diffusion Welding at the Moscow Technological Institute of Meat and Milk

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CIA-RDP86-00513R000307030001-7

Sov/135-59-11-17/26 New Welding Technique at the USSR National Economy Achievements Exhibition of Industry, Experimental Welding Plant at the Nosgorsovnardhor, Institute of Metallurgy imeni Daykov AS USSR and Duepropetrovsk Tubber Rolling Mill imeni Lenin. There are i diagram and 14 photographs.

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BARCHEN-BARCELEDONE

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GITLEVICH, A.D.; BROVED, I.A.

Auxiliary welding equipment. Avton. svar. 14 no.11:64-70 N (MIRA 14:10)

1. Vsesoyuznyy proyektuc-tekhnologicheskiy institut tyzzhelogo mashinostroyenign.

(Welding -Equipment and supplies)

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BROVKO, I.A.; GITLEVICH, A.D.; BRAGINA, Ye.I., red.; VIKTOROVA, Z.N., tekhn. red.

[Auxiliary equipment for assembling and welding operations] Vspomogatel'noe oborudovanie dlia sborochno-svarochnykh rabot. Moskva, TSINTIMASH, 1961. 48 p. (MIRA 16:5) (Welding--Equipment and supplies)

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AUTHORS:	Brovko, I.I., Volkov, A.N., Engineers SOV-118-58-8-2/24
TITLE:	Experimental Exploitation of the "KS-2m" Combine Operation Machine in the Kuzbass Mines (Opytnaya ekspluatatsiya kom- bayna KS-2m na shakhtakh Kuzbassa)
PERIODICAL:	Mekhanizatsiya trudoyëmkikh i tyazhëlykh rebot, 1958, Nr 8, pp 6-8 (USSR)
ABSTRACT:	The "KS-2m" <b>boalcondine</b> operation machine was built in the Anzherskiy plant according to the designs of the Kuznetskiy filial Giprouglemasha (The Kuznetsk Branch of the Giprouglemash). It was tested in mines of the Kuzbass. It was designed for the mechanization of extracting, loading and delivery operations, in the exploitation of 1.2 - 2 m thick slanted coal seams. Its average productivity was from 10,800 to 14,230 tons a month. Detailed informations on its con- struction and power requirements are given. It was also found that almost all parts of the combine must be reinforced, changed or rebuilt. There are 2 tables and 1 figure.
	1. Mining industryUSSR 2. MinesEquipment
ard 1/1	



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BR	ROVKO, M.
	With words and deeds. Mast.ugl. 9 no.1:8-8a Ja '60. 1. Shakhta No.13, g.Stalino. (MIRA 13:8) (Donets BasinCoal mines and mining) (Trade unions)

BROVKC, S. M.

"On the problem of larvicidal effects of poisinous plants on the larva if the malgria mos-(Anopheles maculigennis)," Nauch. mapiski (Dnepropetr. gos. un-t), Vol. XXXII, 1948, p. 279-84

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SO: U-3950, 16 June 53, (Letopis, 'Zhurnal 'nykh Statey, No. 5, 1949).

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EROVKO, S.M. Data on the Ixodidae of the Veliko-Anadol' Forest. Nauk.zap. Dnipr.un. 48:165-167 '55. (01'ginka District--Ticks)

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CIA-RDP86-00513R000307030001-7

USSR/Zooparasitology - Mites and Insects as Diases Vectors. G-3 : Ref Zhur - Biol., No 10, 1958, 43427 Abs Jour Author Brovko, S.M. : Inst : Ixodidac Ticks in Artificial Forests of the Steppe Zone Title : of UlarSSR. : Nauchn. zap. Dnepropetr. un-t, 1955, 54, 61-65. Orig Pub 6 species of ticks of the Ixodidae family are mentioned; Abstract : Ixodes ricinus L., I. crenulatus Koch, Haemaphysalis punctata Can. et Fanz., Dernacentor marginatus Sulz., Rhipicephalus rossicus Jak. et K.-Jak., Hyalonna plumbeum Panz.

Card 1/1

FAL'KOVSKIY, V.B.; BORISOVICH, I.G.; ASTAKHOVA, I.A.; BROVKO, S.F.; FRENKLAKH, Zh.M.; L'VOV, S.V.

> Production of monobasic and dibasic aromatic acids. Khim. prom. 41 no.10:735-736 0 '65. (MIRA 18:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

中公理

BROVKO, V.

Beacon light of Tyumen'. Prof.-tekh. obr. 18 no.10:18-20 '61. (MIRA 14:11) 1. Nachal'nik Tyumenskogo oblastnogo upravleniya proftekhobrazovaniya. (Tyumen' Province-Farm mechanization-Study and teaching)

BROVKO, V.N.

**第二个学校的变式** 

Improved system of preheating petroleum in thermochemical salteliminating installations. Neftianik 1 no.9:6-7 S '56. (MLRA 9:11)

1. Nachal'nik teekha Khabarovskago neftepererabatyvayushchego savoda imeni S. Ordshonikidse. (Petroleum--Refining)

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15-57-12-17261 Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12, pp 80-81 (USSR) Brovkov, G. M. AUTHOR: Origin of Dolomites in Zolotaya Lipa (K voprosu o TITLE: genezise dolomitov Zolotoy Lipy) Nauk. zap. Chernivets'k. un-t., 1956, Vol 22, pp 142-PERIODICAL: 150 Outcrops of dolomites lying directly above the red stratum of Lower Devonian can be seen on both shores of ABSTRACT: Zolotaya Lipa reka (River) between the villages of Laturchin, Zavadovka and Korzhova. The author presents a lithological section of this dolomitic stratum of the Middle Devonian and breaks it into the following structural and textural types: 1) medium-grained dolomites, either stratified horizontally or massive, exhibiting no caverns; 2) uneven-grained, mainly finegrained and unstratified, cavern-forming dolomites; 3) Card 1/3

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15-57-12-17261

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Origin of Dolomites in Zolotaya Lipa (Cont.)

fragmented dolomites (consisting of angular fragments of mainly fine-grained dolomites cemented with nonuniform-grained dolomitic The dolomites of the first type are considered by the author mass). to be the product of diagenetic recrystallization of a limey deposit and also of the epigenetic recrystallization of previously consolidated and partially dolomitized carbonates. Brecciated fragmental dolomites are considered to be a result of reworking of the lithified dolomites which were lifted from time to time above the level of the water in the littoral zone of the reservoir. The region to the west of Koropets reka (River) underwent some small subsidences at the beginning of Middle Devonian. These subsidences were accompanied by marine transgressions from the southwest. In the middle and lower course of Zolotaya Lipa reka (River) and at the outlets of Koropets reka (River) there originated quiet, shallow, and thoroughly warmed lagoons of weakly reducing character. With only an insignificant supply of clastic materials, some fairly pure dolomitic deposit was originally formed within these lagoons; with time, this deposit was substantially recrystallized. In this way the dolomites of the first type originated. The following period was characterized by the Card 2/3

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'Origin of Dolomites in Zolotaya Lipa (Cont.)

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deposition of primarily limey deposits which quickly underwent a diagenetic dolomitization and lithification; this was accompanied by the lifting of strongly dolomitized rocks above the level of the water and by their destruction in the littoral zone of the lagoons. This stage was responsible for the formation of the dolomites of the second and the third types. The presence of coral remnents in the dolomites of the second type points to the fact that the dolomitization of the rock took place during the stage of epigenesis because corals cannot live under the conditions suitable for the formation of primary dolomite. S. M. Korenevskiy Card 3/3

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BROVKOV, G.N.

Formation of red beds of the Lover Devonian of the Dniester region. Dokl. AN SSSR 94 no.1:121-124 Ja '54. (MLRA 7:1) (Dniester Valley-Geology, Stratigraphic) (Geology, Stratigraphic--Dniester Valley)

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BROVKOV, G.N.

Presence of alluvial sediments in the upper Lia, of Daghestan. Trudy Geol.inst.Dag.fil. AN SSSR 1:230-235 '57. (MIRA 14:9) (Chirakhchay Valley--Alluvial lands)

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BROVKOV, G.N.

Siliceous and carbonaceous cementing materials in different facies of terrigenous rocks. Izv. Sib. otd. AN SSSR no.2:33-42 '58. (MIRA 11:9) 1. Dagestanskiy filial AN SSSR.

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(Rocks, Sedimentary) (Silica) (Carbonates)
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<ul> <li>TITLE: On the Book by A.G. Aliyev and V.P. Akayeva "The Petrograp of Jurassic Deposits of the South-Eastern Caucasus" (0 kni A.G. Aliyeva i V.P. Akayevoy "Petrografiya Yurskikh otlozh Yugo-Vostochnogo Kavkaza")</li> <li>PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958 Nr 9, pp 101-102 (USSR)</li> <li>ABSTRACT: This is a review of the above-mentioned book, published by Academy of Sciences of the Azerbaydzhan SSR, in 1957.</li> <li>1. GeologyUSSR</li> </ul>
ABSTRACT: This is a review of the above-mentioned book, published by Academy of Sciences of the Azerbaydzhan SSR, in 1957. 1. GeologyUSSR
Academy of Sciences of the Azerbaydzhan SSR, in 1957. 1. GeologyUSSR
Card 1/1

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3(0) AUTHOR:	Brovkov, G. N.	S0V/20-122-6-35/49
TITLE:	Alenian Rocks of Southwes stadiynosti protsessov mi	ral Formation in Terrigenous, Lower stern Dagestan (O zonal'nosti i neraloobrazovaniya v terrigennykh yugo-vostochnogo Dagestana)
PERIODICAL:	Doklady Akademii nauk SSS 1082 (USSR)	SR, 1958, Vol 122, Nr 6, pp 1079 -
ABSTRACT :	terrigenous rocks mention typical marine sediments, one another regularly fro A section of coal-bearing in the northern and north terrigenous components of fragments) show a conside beds and the typical mari related to them show a pr The most widely distribut	entributed to the formation of thick, ned in the title, from alluvium to including Flysch. They grade into m northeast to south and southwest. beds, about 2300 m thick, occurs eastern part of the region. The these beds (minerals and rock rable constancy. The coal-bearing ne sediments which are paragenetically edominance of polymictic rocks. ed diagenetic minerals: quartz, ankerite (and dolomite), calcite,
lard 1/4	and pyrite are as a mulo	, of different ages despite their

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Zones and Phases of Mineral Formation in Terrigenous, SOV/20-122-6-35/49 Lower Alenian Rocks of Southwestern Dagestan

occurrences in the same rocks. The authigenic assemblage is not only very qualitatively varied, but in addition it is irregularly distributed, depending upon the facies relationships of the rocks. This facies relationship (Fig 1) for sandy-aleurolithic rocks could be determined by understanding the relative roles of the individual cements, followed by a calculation of the so-called "Cement Number" (explained in a footnote). An analysis of the data has shown a clear heterogeneity for the distribution of the primary, authigenic minerals. Along the contact between the continent and the sea, definite and authigenic mineral zones appear to occur, which grade gradually into one another. These zones are: 1. a quartz zone, containing minor amounts of siderite and ankerite (alluvial deposits). 2. a quartz-siderite-ankerite zone (deltaic deposits). 3. an ankerite-siderite zone, containing minor amounts of quartz (deltaic tongues into marine deposits). 4. a calcite-ankerite-siderite zone (marine deposits). Another characteristic of diagenetic mineral formation is the presence of phases. The formation of the diagenetic minerals proceeded in a definite order, which corresponds to the development of

Card 2/4

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Zones and Phases of Mineral Formation in Terrigenous, SOV/20-122-6-35/49
 Lower Alenian Rocks of Southwestern Dagestan

the authigenic minerals. The earliest formed mineral is glauconite, and the latest formed mineral is siderite; ankerite is, after siderite, the latest formed mineral. If calcite occurs with quartz and ankerite or with siderite, calcite is always the latest formed mineral. Dolomite is approximately contemporaneous with ankerite and only rarely forms after calcite. A scheme for the sequence of mineral formation is given. Both the phasic character and the formation of diagenetic minerals of the zones are directly related to the conditions of deposition. Paleoclimatological conditions of this time are discussed, and their influence on the formation of the minerals mentioned is determined. There are 1 figure and 2 Soviet references.

ASSOCIATION: Institut geologii Dagestanskogo filiala Akademii nauk SSSR (Geological Institute of the Dagestan Branch of the Academy of Sciences, USSR)

PRESENTED: June 3, 1958, by N. M. Strakhov, Academician Card 3/4

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STATE OF STREET

BROVKOV, G.N.

Argillites in the Jurassic coal-bearing strata of Daghestan. Dokl.AN SSSR 133 no.4:931-934 Ag '60. (MIRA 13:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya Akademii nauk SSSR. Fredstavleno akad. N.M.Strakhovym. (Daghestan-Argillite)

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后,而为,因于250岁;后长行 ... BROVKOV, G.N.; MOSKALENKO, T.A. . . **.** . . . Leptochlorite horizon in middle Jurassic deposits of contral Daghestan. Dokl.AN SSSR 136 no.1:163-166 Ja :61. (MIRA 14:5) 1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSSR i Institut geologii Dagestanskogo filiala AN SSSR. Predstavleno akademikom N.M.Strakhovym. (Chokh region-Geology, Stratigraphic) (Leptochlorite) APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307030001-7"

## "APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307030001-7

EROVKOV, C.N.
Basic characteristics of the diagenesis of Aalenian coal-bearing sediments in Daghestan. Izv. AN SSSR. Ser.geol. 27 no.6:62-72 je '62. (MIRA 15:5)
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Jandre Goal geology

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BROVKOV, G.N.; FROLOVA, V.T.

Modified bentonite rocks in the Devonian of the Tuva and Minusinsk Depressions. Dokl. AN SSSR 143 no.4:943-946 Ap '62. (MIRA 15:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom N.M.Strakhovym.

(Tuva A.S.S.R.--Bentonite) (Minusinsk region--Bentonite)

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BROVKOV, G.N.

Facies and paleogeographic factors in the accumulation of Lower Aalen sediments in southeastern Daghestan. Trudy Geol.inst.Dag. fil. AN SSSR 2:10-24 '60. (MIRA 15:12) (Daghestan-Geology, Stratigraphic)

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BROVKOV, G.N.

Sedimentary-telepyroclastic formations, a special type of rock associations. Trudy Lab. paleovulk. Kazakh. gos. un. no.2:68-72 '63. (MIRA 17:11)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

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BROVKOV, G.N.; MOSKALENKO, T.A.

First find of conglomerates containing pebbles of Pre-Jurassic ignotus and metamorphic rocks in the Bajocian of southeastern Daghestan. Trudy Geol.inst.Dag.fil. AN SSSR 2:165-168 '62. (MIRA 15:12)

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(Daghestan-Conglomerate)

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BROVKOV, G.N.

Ash tuffs in Middle Devonian sediments in the Tuz-Tag salt mine region (southern Tuva). Geol. i geofiz. no.4;126-132 '63. (MIRA 16:10) 1. Krasnoyarskaya kompleksnaya laboratoriya Instituta geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

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Effect of pyroclastic material on the composition of Devonian and Lower Carboniferous sediments in Tava. 11t. 1 pcl. iskop. no.2:77-88 Mm-Ap '64. (MIRA 17:6)

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Facies-paleogeographic conditions governing the formation of Silurian formations in Tuva. Geol. 1 geofiz. no.4:66-77 165. (MIRA 18:8) 1. Krasnoyarskeya kompleksneya laboratoriya Sibirskogo otdeleniya AN SSSR.

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BROVKOV, G.N.; GRAYZER, M.I.; MOGILEV, A.Ye.

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Conditions governing the accumulation of Lower Carboniferrous sediments in the eastern part of the Sayan-Altai area. Geol. i geofiz. no.1:106-123 '65. (MIRA 18:6)

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1. Krasnoyarskaya kompleksnaya laboratoriya Instituta geologii i geofiziki Sibirskogo otdeleniya AN SSSR.

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BROVKOV, G.N.

Laumontite mineralization in the Devonian volcanic sedimentary layer of the Minusinsk trough. Lit. i pol. iskop. no.3:35-44 My-Je '65. (MIRA 18:10)

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l. Institut geologii i geofiziki Sibirskogo filiala AN SSSR. Novosibirsk.

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BROVKOV, G.N.; MOGILEV, A.Ye.

Classification of terrigenous sedimentary rocks according to their composition. Lit. i pol. iskop. no.6:67-74 N-D 165. (MIRA 18:12) 1. Kraonoyarskoye otdeleniye Sibirskogo nauchno-issledovatel'skogo institut geologii, geofiziki i mineral'nego syr'ya. Submitted April 12, 1965.

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BROVKOV, G.N.; GRAYZER, M.I.; MOGILEV, A.Ye.

New data on the Lower Carboniferous paleogeography of the Altai-Sayan region. Izv. AN SSSR. Ser.geol. 30 no.11:93-97 N \*65. (MIRA 18:12)

PROVIDENT AND A DESCRIPTION OF A DESCRIP

1. Laboratoriya osadochnykh poleznykh iskopayemykh Gosudarstvennogo geologicheskogo komiteta SSSR, Moskva i Krasnoyarskoye otdeleniye Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya, Novosibirsk. Submitted November 19, 1964.

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METROPHICAL STORAGE STRATE

BROVKOVA, L.V.

Attachment for cutting grooves on a machine for regulating drum winders. Obm.tekh.opyt.[MLP] no.20:25-26 '56. (MIRA 12:11) (Textile machinery--Maintenance and repair)

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Improving filters for the physical purification of waters. Obm.tekh.opyt.[MLP] no.20:36-37 '56. (MIRA 12:11) (Filters and filtration)

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CIA-RDP86-00513R000307030001-7

EROVEOVA, M.; LAFUSHONOL, Yu., inshener. Preparation for removing oil from polished wooden surfaces. Prom.koop. no.11:32-33 J '55. (MELA 9:5) 1. Zaveduyushchiy Eksperimental'noy laboratoriyey Latpromeoveta. (Purniture industry)

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NEW CONSTRUCTION OF THE SECOND

BROVKOVICH, D.; GALKIN, M.; KOMAROV, G.; FEDOSEYEV, K., redaktor; SHITIKOVA, Ye., redaktor; LEBEDEV, A., teknnicheskiy redaktor.

[Intrafactory business cost accounting] Vnutrisavodskii khozraschet. Moskva, Gosfinisdat, 1955. 146 p. (MLRA 9:4) (Factories--Finance)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307030001-7

BROVKOVICH, D.A. BROVKOVICH, D.A. Taganrog. Geograficheskii oche K. Taganrog, Kratvedcheskii muzei, 1948. 26 p. SO: LC, Soviet Geography, Part II, 1951, Unclassified APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307030001-7"

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**新新的新闻的** 

BROVKOVICH, D.A.; POPOV, A.A.; ZIMIN, A.I.; KOMAROV, G.V.; ABROSKIN, P.I.; ZAV'YALOVA, A.N., red.; GERASIMOVA, Ye.S., tekhn. red.

> [Industrial planning in an economic region; practice of the Rostov Economic Council] Planirovanie promyshlennosti v ekonomicheskom raione; opyt Rostovskogo sovnarkhoza. Moskva, Ekonomizdat, 1962. 187 p. (MIRA 15:7) (Rostov Province--Economic policy)

ALGENEENSERVELLE

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SOV/143-59-3-19/20 Brovkovich, G.N., Candidate of Technical Sciences, 14(9) Docent; Livshits, I.M., Candidate of Technical Sci-AUTHOR: ences, Docent The Determination of the Mean Flow Velocity by In-TITLE: stantaneous Velocities (Ob opredelenii sredney skorosti potoka po mgnovennym skorostyam) Izvestiya vysshikh uchebnykh zavedeniy - Energetika, PERIODICAL: 1959, Nr 3, pp 150-153 (USSR) Usually, time-averaged values of pulsating velocities at different points of a flow are used for determining ABSTRACT: the mean flow velocity in a useful section. The au-thors established that instantaneous velocities may The aube used instead of averaged velocities, providing that there is an adequate number of measuring points. The error caused by this exchange will be small due to the compensation effect. Thereby, in a number of cases, the necessity of using time-averaged point velocities will be eliminated and the mean velocity in a useful section may be calculated by instantaneous Card 1/5

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The Determination of the Mean Flow Velocity by Instantaneous

point velocities. The aforementioned compensation will occur in case the instantaneous velocities are independent random values for the different points. The authors determine root-mean-square value of the difference V-V designated by  $\mathcal{E}_{V}$ . Designating the means velocity in a useful flow section by  $\overline{V}$ , determined by some methods of time-averaging the point velocities, and the mean velocity by V, determined by the same method, but using the instantaneous velocities at the same points, the authors present two formulae for  $\overline{V}$  and V:

 $V_{\rm k}$  - instantaneous velocities of a flow at points with the number k;  $\overline{V}_{\rm k}$  - time averaged values at the same points; n - number of points for the entire

 $V = \sum_{k=1}^{m} p_{ij} v_{k}$  $\overline{V} = \sum_{k=1}^{\mathbf{r}} a_k \overline{V}_k ,$ 

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The Determination of the Mean Flow Velocity by Instantaneous

useful section;  $a_k$  - factor, depending on the quadrature formulae used for determining the mean velocity in the vertical, on the number and location of the latter and one the shape of the useful section. Taking into consideration that the measurements of the velocities  $V_k$  at neighboring points is performed at intervals adequate for an essential change of the pulsating velocity, amounting usually to a fraction of a minute. Then, the velocity  $V_k$  may be considered as a random value and in this case

$$\mathbb{I} V = \sum_{k=1}^{m} 2^{\flat}_{k} \mathbb{I} V_{k}$$

 $\sigma_V^2 = \sum_{k=1}^{r} \alpha_k^2 \sigma_{V_k}^2$ 

whereby D is the dispersion of the value under consideration. This formula may be written in the following manner:

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The Determination of the Mean Flow Velocity by Instantaneous SOV/143-59-3-19/20 Veclocities mental investigations are required, especially of pulsation velocity changes under different conditions in an open flow and under an ice cover. There are 1 table and 5 references, 1 of which is American and 4 Soviet. ASSOCIATION: Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina (Leningrad Polytechnic Institute imeni M.I. Kafedra gidrologii i vodosnabzheniya BPI -Kalinin) Belorusskiy politekhnicheskiy institute (Chair of Hydrology and Water Supply of BPI - Belorussian Polytechnic Institute) • SUBMITTED: December 22, 1958 Card 5/5

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1	Ar3001450	) AFFTC IJP(C) S/0052/63/008/002	/0217/0218
	AUTHOR: Brovkovich, G. N.; Linnik, Y	u. V. (Leningrad)	52
	TITLE: Similar estimates using the m	ethod of least squares	
1	SOURCE: Teoriya veroyatnostey i yeye	primenentya y 8 no	
1	NOPIC TAGS: chi-square, regression, e	estimation, similar region	2, 1903, 217-218
	Dollar: The observation that when y	ond Y and I a	•
8	ABSTRACT: The observation that when X distribution, then X/Y and X + Y are i of similar regions for certain paramet int. has: 8 formulas, 1 figure and 1 SSOCIATION: mana	Leans to simp	ith the chi-square le constructions n models. Orig.
a A	similar regions for certain paramet rt. Mas: 8 formulas, 1 figure and 1 SSOCIATION: none	Leans to simp	ith the chi-square le constructions n models. Orig.
a A	Similar regions for certain paramet rt. Mas: 8 formulas, 1 figure and 1 SSOCIATION: none	Leans to simp	le constructions n models. Orig.
a A S	UBMITTED: 11Jan62 DATE: 00 DATE: 00 DAT	ers in certain regressio table.	th the chi-square le constructions n models. Orig. ENCL: 00 OTHER: 001

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BROVKOVICH, Ye.A.

The SKTP 560-3200/35 agricultural complete transformer substation. Biul.tekh.wekon.inform.Gos.nauch.wissl.inst.nauch.i tekh.inform. 17 no.7843-44 Jl \*64. (MIRA 17:10)

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"Method for determining the time limit for mine construction. Tr. from the Russien." Uhli, Praha, Vol 3, No 11, Nov. 1953, p. 324

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

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Broyman, M.Ya., Engineer. AUTHOR: 133-5-22/27 Designing of the rolling mill cooling beas taking into consideration convective heat exchange. (Raschet prokat-TITLE: nykh kholodil'nikov s uchetom konvektivnogo teploobmena) PERIODICAL: "Stal!" (Steel), 1957, No.5, pp. 466-467 (U.S.S.R.) ABSTRACT: ▲ formula was deduced, eq.(23), for calculating the cooling time of metal on cooling beds in which heat exchange by convection was also considered. It is claimed that a good agreement between calculated and actually observed cooling time was obtained. There are 4 Slavic references. **ASSOCIATION:** Yuzhno-Ural Machine Building Works. (Yuzhno-Uralskiy Mashinostroitelnyy Zavod) AVAIIABLE: Card 1/1

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自己的ない ACC NR: AP70031 SOURCE CODE: UR/0133/67/000/001/0053/0057 (A)AUTHOR: Brovman, M.Ya.; Skorkin, N.V.; Shumkov, V.D.; Vydrin, V.K.; Dodin, Yu.S.; Makarov, V.G.; Rimen, V.Kh.; Lind, I.K. ORG: Yuzhuralmashzavod; Chelyabinsk Polytechnic Institute (Chelyabinskiy politekhnicheskiy Institut); Chelyabinsk Metallurgical TITLE: Investigation of a new 900/700/500 continuous blooming mill Stal', no. 1, 1967, 53-57 TOPIC TAGS: metal rolling, hot rolling, rolling mill, continuous rolling mill/900-700-500, mill ABSTRACT: ROLLING The new 900/700/500 continuous blooming mill, designed and built at the Yuzhno-Ural'skiy Machine Building Plant, is in operation at the Chelyabinsk and Krivorozhskiy Metallurgical Plants. The new mill is designed for rolling square blooms with a cross section of 80 x 80-170 x 170 mm and flat slabs from 370 x 370 mm carbon and alloy steel blooms weighing up to 9 tons. Provision is also made for rolling round bars 105, 120, 140, 150, 170 and 220 mm in diameter. The mill is designed to produce 5.5 million tons of rolled stock per year; the metal delivery rate at the last stand Card 1/2 UDC: 621.771.26

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is 7 m/sec and the specific efficiency per ton of the equipment is said to be 25% higher than that of the most efficient existing blooming mills. The new mill consists of 14 stands. The first group consists of two separate 900 horizontal stands and a continuous set of six stands (two of them with vertical rolls). The second group of stands consists of three vertical and three horizontal stands. A planetary flying shears, made at the Staro-Kramatorskiy Plant, is used for cutting billets to size. Rolling large billets, 150 x 150 mm and up, is done in the first group of stands; the billets are shifted to a side roll gang and cut to length with 1000-ton shears. The stands have an individual electric d-c motor drive with continuous automatic power regulation. For further automation and higher precision of the rolling process, provision is made for installing magnetoelastic sensors of the metal pressure on the rolls. Experience showed that for continuous safe operation the billet surface temperature should not be lower than 1000C. The design of the stands and the technology used ensure the necessary accuracy for rolling commerical stock. Orig. art. has: 6 figures and 3 tables. [NS] SUB CODE: 13/ SUBM DATE: ORIG REF: 006/ none/ ATD PRESS: 5115

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CIA-RDP86-00513R000307030001-7 "APPROVED FOR RELEASE: 08/22/2000 HOLTER FRAME

SOV/137-58-9-18962

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 115(USSR)

NAMES OF BUSY LODGER

Brovman, M.Ya., Shpigel'man, R.M. AUTHORS:

The Turning of Metal in Rolling on Continuous Billet Mills (Kantovka metalla pri prokatke na nepreryvno-zagotovochnykh TITLE: stanakh)

V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurgizdat, PERIODICAL: 1958, pp 137-146

ABSTRACT:

New March March March 1992 (1997)

One of the special features of the rolling of steel on continuous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An attempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet reduces the ultimate AT. It is established that turning in

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REPORT FOR A CONTRACTOR OF A CONTRACT OF

SOV/137-58-9-18962 The Turning of Metal in Rolling on Continuous Billet Mills helicoidal guides increases the energy requirement for rolling by 14-20%, and this is confirmed by the practical experience of the operation of the mills of the Magnitogorsk Kombinat. The energy consumption is considerably lower when roller guides are employed. Thus, if the neck mountings of the turning ollers are placed in textolite bearings, the additional energy required for turning is 1.2-1.7%, whereas it is 0.4-0.6% if the rollers are mounted in soller bearings. 1. Rolling mills--Performance 2. Rolling mills--Equipment 3. Materials--Control

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Translatic	on from: Referativnyy zhumal 14	-9-18952
AUTHOR:	SOV/137-58- SOV/137-58- Brovman, M.Ya.	13 (USSR)
TITLE:	The Elastic Deformation of Rolls in Cold Rolling (Uprus deformatsiya valkov pri kholodu	<b>71</b> -2
PERIODICA	AL: V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurg	gaya
	The elastic deformation of rolls in cold rolling distor increases the length of the contact arc. Flattening of the increases the specific pressure of the metal in the contact Flattening of the rolls and increase in the length of the co arc occurs chiefly past the axis of the rolls. A formula i rived for calculation of roll pressure. A method is advan for the determination and an example is given of the calcu crease in the length of the contact angle past the axis of the rolls.	rts and e rolls act zone. contact is de- nced
Card 1/1	distribution 3. Rolling millsMathematical unit	B.Ts. - Structure

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133-58-3-13/29

AUTHORS: Brovman, M.Ya. and Shpigel'man, R.M., Engineers

TITLE:

BE BEAULTER CONSIGNATION

The Dependence of Metal Pressure on Rolls or the velocity of Deformation (Zavisimost' davleniya metalla ne valki ot skorosti deformatsii)

PERICDICAL: Stal', 1958, Nr 3, pp 230-235 (USSR)

AESTRACT: A method of calculating the pressure of metal on rolls during hot rolling in which the influence of the rolling velocity and changes in the yield stress along the arc of grip are taken into consideration is proposed (Formulae 53, 54). The comparison of the results obtained using Tselikov's, Ekelund's and the author's formulae is shown in the table. It is concluded that: 1) under the influence of the velocity of deformation, the pressure of metal on rolls increases considerably; 2) the use of the proposed method of calculation for alloy steels is difficult due to lack of experimental data on the influence of velocity of deformation on the yield stress. In the majority of existing formulae, the influence of the velocity of deformation is taken into consideration only approximately, assuming the constancy of the yield stress along the arc or grip. With increasing rolling velocity and widening of the production of alloy steels, the influence of the velocity of deformation becomes more important. Cardl/2

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CIA-RDP86-00513R000307030001-7 

The Dependence of Metal Pressure on Rolls on the Velocity of There are 5 figures, 1 table and 4 Soviet references. ASSOCIATION: Yuniy-Uralskiy mashinostroitel'nyy zavod (South - Ural Machine Building Works) AVAILABLE: Library of Congress Card 2/2

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CIA-RDP86-00513R000307030001-7

SOV/179-59-1-18/36

AUTHORS: Brovman, M. Ya. and Mel'nikov, A. F. (Orsk)

TITLE: Experimental Investigation of Stresses on Impressing a Punch in a Plastic Body (Eksperimental'noye issledovaniye usiliy

pri vdavlivanii shtampa v plasticheskoye telo)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 1, p-127 (USSR) ABSTRACT: The formula

 $p = 2.97 \sigma_s$ (1)

has been proposed (Refs.1 and 2) for the stress in a plastic half-plane under the action of a plane punch, where  $\sigma_{g}$ the flow limit. The flow limit and the tensile strength of is a specimen of lead were determined, and the stress developed during punching of the lead measured for punches of dimensions varying from  $5 \times 5$  to  $5 \times 50$  mm. It is found that provided the ratio of length to width of the punch is greater than 10, the maximum stress is given by:

P≈3 σ<sub>R</sub>

where is tensile strength, instead of by Eq.(1).  $\sigma_{R}$ Card 1/2

CIA-RDP86-00513R000307030001-7

SOV/179-59-1-18/36 Experimental Investigation of Stresses on Impressing a Punch in a Experiments on hot steel gave analogous results. There are l figure, l table and 3 Soviet references. ASSOCIATION: Yuzhno-Ural'skiy mashinostroitel'nyy zavod (South ---Ural Machine Works) SUBMITTED: April 30, 1958.

Card 2/2

CHREAD TO CHEMICAL PLANE

CIA-RDP86-00513R000307030001-7

BROVMAN, M. Ya. (Orsk); MEL'NIKOV, A.F. (Orsk)

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Experimental investigation of stresses caused by the pressingin of a punch into a plastic body. Isv.AN SSSR.Otd.tekh.nauk. Nekh. i mashinostr. no.2:127 Ja-F '59.. (MIRA 12:5)

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1. Yushno-Ural'skiy mashinostroitel'nyy zavod. (Strains and stresses)

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25(2)	SC7/117-59-3-23/37		
AUTHOR:	Brovman, M.Ya., Engineer		
TITLE:	Rivets of a New Design (Zaklepki novoy konstruktsii)		
PERIODICAL:			
ABSTRACT: Card 1/1	The described rivets were tested in the experimental laboratory of the Yuzhno-Ural'skiy mashinostroitel'myy zavod (Yuzhno-Ural'skiy Machine Building Plant). The essence of the new design is that the rivet is made with a head on one end, two cross grooves on the other end dividing this end into four sectors, and an axial hole. A pin driven into the hole with a sledge hammer spreads the four sectors apart and secures the rivet firmly. The new rivets are suit- able for fastening metal with metal or metal with wood. They are applicable in spots otherwise in- accessible to riveting. The mechanical strength of the joints is the same as with conventional rivets. There are 3 sets of diagrams and 1 table.		

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CIA-RDP86-00513R000307030001-7

SOV/133-59-9-20/31 AUTHOR: Brovman, M.Ya. TITLE: The Influence of External Zones on the Resistance to Deformation in Roll Passes During Rolling PERIODICAL: Stal', 1959, Nr 9, p 829 (USSR) ABSTRACT: It was shown by A.I.Tselikov and V.V.Smirnov (Stal', 1958, Nr 9) that on rolling at a low ratio of the length of arc of grip to the mean thickness of a rolled specimen (1/h) the largest influence on the resistance to deformation is exerted by external zones. It was then proposed to account for the influence of external zones using a coefficient n" which was determined experimentally but only for flat specimens. The present author made similar determinations for square, diamond and round specimens. The results obtained are shown in Fig 2, as curves representing the dependence of  $n_{\sigma}^{\mu}$  on l/h. There are 2 figures. ASSOCIATION:Yuzhuralmashzavod (South Ural Machine-Building Works)

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BROVMAN, M.Ya., inzh.; MEL'NIKOV, A.F., inzh.; SURIN, Ye.V., inzh. New types of metal-cutting tools. Mashinostroitel' no.12: 19-20 D '59. (MIRA 13:3) (Metal-cutting tools)

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CIA-RDP86-00513R000307030001-7

S/122/60/000/009/005/015 A161/A026

AUTHOR:

Brovman, M.Ya., Engineer MINULAB

TITLE:

Calculation of Forces in the Gear Rolling Process

PERIODICAL: Vestnik mashinostroyeniya, 1960, No. 9, pp. 36 - 38

TEXT: Rolling is being used ever more extensively for making gears, but no calculation method has been developed yet for calculating the forces in this process; in a previous work (Ref. 1) the direction of forces had been studied and a method developed for calculating the contact area, but not the pressure in contact. The author suggests a method for determining the pressure. Metal flow in contact between the gear blank and the gear roll is analysed and calculation formulae derived for determining the pressure in different contact points at a given mutual position of blank and roll. Usually, the pressures of the roll tooth work on about 85% of the entire contact area; therefore, in case practical calculations need not be very accurate, it is not necessary to construct the successive positions of blank and roll tooth; the mean pressure may simply be determined by the formula  $p_{mean} = 8.55 \text{ k}$  (where k is the yield point in shear). This does not apply to alloy steel, particularly in the presence of carbides,

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S/182/60/000/012/0C2/010 A161/A030

AUTHORS: Brovman, M.Ya., and Genzelev, S.M.

TITLE: Forces Acting at Metal Deformation in Passes

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No.12, pp. 5-9

TEXT: Forces acting on metal rolled in box and diamond passes (Fig.1) are mathematically analized using the Ross theory (Ref.4, E.W. Ross, Journal of Applied Mechanics, Sept., 1957, No.3) and the results of experiments in the experiment laboratory of Yuzno-Ural'skiy mashinostroitel'nyy zavod (South-Ural Machine Building Plant) with lead specimens. The results matched the Ross theory. Slip lines observed in deformation in diamond passes are shown (Fig.5). A graph (Fig.3) and formulae (8, 12, 13 and 14) are derived for simple determination of deformation forces acting in passes:

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Forces Acting at Metal Deformation in Passes	S/182/60/000/012/002/010 A161/A030	
$u = -\frac{u_0}{a}x;$		
$\mathbf{v} = -\frac{\mathbf{u}_{\mathbf{n}}}{\mathbf{a}} \mathbf{y};$		
$W = c_1 - \frac{6u_0}{mV_3} \sqrt{1 - \frac{m^2}{a^2} (x^2 + y^2)};$		
$\mathbf{d}_{\mathbf{x}} = -\mathbf{C} - \frac{2\mathbf{m}\mathbf{k}}{\mathbf{a}}\mathbf{z};$	(8)	
$\sigma_{y} = -C - \frac{2mk}{a} z;$		
$\sigma'_z = -c - \frac{2mk}{a}z + k\sqrt{3}\sqrt{1 - \frac{m^2}{a^2}(x^2 + y^2)}$		
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Forces Acting at Metal Deformation in Passes

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where u, v and w are flow speed components; a,  $u_0$ , y, x - designations used by R.Hill (Rof.1. Matematicheskaya teoriya plastichnosti, Gostekhizdat, 1956) and shown in **Figure 9**; x, y, are the stress components; k - the yield limit; C- a constant;

$$P_{\rm CP} = \frac{P}{4\sqrt{2} \, \rm al} = C + \frac{\rm mkl}{\rm a} \tag{12}$$

where pcp is the mean deformation force

$$\frac{P_{cp}}{2k} = 0.707 + 0.353 \frac{L}{h}; \qquad (13)$$

and, for the case of being squeezed out from a square or diamond pass so that the point A (Fig.ll) moves down with a speed  $u_0$ , and the point B to the right with a speed  $\frac{u_0}{a}$  ab:

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Forces Acting at Metal Deformation in Passes  $u = \frac{u_{\Omega}}{a} \alpha x;$   $w = -\frac{u_{\Omega}}{a} y;$   $w = C_{1} + \frac{u_{\Omega}}{a} (1-\alpha) z + \frac{2u_{\Omega}}{m} \sqrt{1 - \alpha + \alpha^{2}} \sqrt{1 - \frac{m^{2}}{a^{2}} y^{2}};$  (14) (14)  $x_{YZ} = \frac{mk}{a} y;$   $\frac{d_{X}}{k} = -C - \frac{mz}{a} + \frac{1+\alpha}{\sqrt{1-\alpha+\alpha^{2}}} \sqrt{1 - \frac{m^{2}}{a^{2}} y^{2}};$   $\frac{d_{Y}}{k} = -C - \frac{mz}{a} + \frac{1+\alpha}{\sqrt{1-\alpha+\alpha^{2}}} \sqrt{1 - \frac{m^{2}}{a^{2}} y^{2}};$  Crad 4/7

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S/137/62/000/001/074/237 A060/A101

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AUTHORS: Brovman, M. Ya., Dodin, Yu. S. TITLE: Determination of stresses in continuous mills PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 2, abstract 1D7 (V sb. "Stal'". Moscow, Metallurgizdat, 1961, 287 - 300) TEXT: The stresses between the stands have a considerable effect upon the forces and moments of the rolling and the forces on the rolls, which affects the operation of the individual elements of the mill. Formulae are derived for determining the stresses and the changes in roll forces related to them, and also formulae for correcting the number of revolutions with the aim of eliminating the stresses. A relation was established between the stretches and the roll speeds at which the stresses will be absent. The formulae can be applied, for example, to calculate a slabbing mill (1st stand horizontal, 2nd stand vertical). A numerical example is given for calculating the stresses between the 2nd, 3rd, and 4th stands of a continuous billet mill 850/700/500. The results obtained coincided closely with those found experimentally. The method is applicable to any number of stands. There are 6 references. [Abstracter's note: Complete translation] Ye. Bukhman Card 1/1

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S/117/61/000/003/011/011 A004/A101

AUTHORS: Brovman, M. Ya., Mikhaylov, G. M.

TITLE: Wire bearings

PERIODICAL: Mashinostroitel', no. 3, 1961, 36

TEXT: In mechanical engineering antifriction bearings with racers of highalloyed steel being in short supply are widely used. In large-size antifriction bearings of machines and assemblies with relatively small loads at low rotation speeds, bearings of a more simple design can be used. In such bearings the antifriction tracks for the balls are made of high-strength cold-drawn wire, in roller bearings they are made of high-strength steel strip. If necessary, the bearing can be assembled without racer. In such a case grooves are cut in the shaft and bearing housing and wire racers are fitted, which, together with the shaft and housing, act as bearings. Bearings with wire tracks were tested at the experimental laboratory of the Yuzhuralmashzavod Plant. It was found that wire tracks should be used whose diameter is 4 - 5 times less than the ball diameter. According to test data, the coefficient of friction of such bearings varies in the range of 0.005 - 0.009. Angle  $\alpha$  is selected within 30 - 60°. The repair of

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CIA-RDP86-00513R000307030001-7

BROVMAN, M.Ya. (Orsk); GENZELEV, S.M (Orsk)

Determining stresses caused by deformations in rhombic grooves. Izv. AN SSSRUOtd.tekh.nauk.Mekh.i mashinostr. no.3:167-177: My-Je '61. (MIRA 14:6) (Deformations (Mechanics))

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### CIA-RDP86-00513R000307030001-7

BROVMAN, M.Ya.; MEL'NIKOV, A.F.

Determination of force and energy for the marking process. huz.shtam. proizv. 3 no.11:43-44 N '61. (KIRA 14:11) (Forging machinery--Attachments)

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