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Abstract : A new type of tool with the cutting edge divided into two parts at an angle of 120 degrees is described. The exact dimensions and configuration of this tool are given. Table; drawings. Institution :	Periodical	New cut-off tool Vest. Mash. 34/5, 55, May 1954
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	Institution	and cost are given. Table; drawings.
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AUTHOR: Kuzovkin, S. K. (L'vov) ORG: none TITLE: On the feasibility of phase measurement in inductive aerial electrical pro- specting SOURCE: AN UKRSSR. Teoriya i elementy sistem othora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova dumka, 1965, 74-79 TOPIC TAGS: prospecting, phase measurement AESTRACT: The paper discusses the dependence of the phase of the secondary field on the frequency of the excitation current and the dimensions and the conductivity of a buried ore body. The author shows that the phase of the secondary field does not de- pend on flight altitude. The least errors occur in the phase measurement when the plane of the gondola is at a 0° or 90° angle to the vertical plane. The horizontal component of the field is measured when this angle is 45°. Orig. art. has: 8 formulas, 2 figures. SU3 CODE: 03/ SUBM DATE: 10Nov65/ ORIG REF: 013				aratic discrimination of the		
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TITLE: On the feasibility of phase measurement in inductive aerial electrical pro- specting SOURCE: AN UKrSSR. Teoriya i elementy sistem othora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova dumka, 1965, 74-79 TOPIC TAGS: prospecting, phase measurement AESTRACT: The paper discusses the dependence of the phase of the secondary field on the frequency of the excitation current and the dimensions and the conductivity of a buried ore body. The author shows that the phase of the secondary field does not de- pend on flight altitude. The least errors occur in the phase measurement when the plane of the gendela is at a 0° or 90° angle to the vertical plane. The horizontal component of the field is measured when this angle is 45°. Orig. art. has: 8 formulas, 2 figures. SUB CODE: 03/ SUEM DATE: 10Nov65/ ORIG REF: 0:3	AUTHOR: Kuzovkin, S. K.	(L'vov)				
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AUTHOR: Kuzovkin, S. K. (L'vov) ORG: none TITLE: Evaluation of two procedures for the electrical compensation of the primary signal in aerial induction prospecting SOURCE: AN UKrSSR. Teoriyà i elementy sistem othora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova-dumka, 1965, 84-89 TOPIC TAGS: phase shift analysis, prospecting AESTRACT: In the first procedure, the intensity and phase of compensation remain the is automatically equalized to the intensity of the signal received. Losses in the in- ting and receiving coils, are calculated in percentages. The second method of compen- ed signal is very nearly the true one, even though the geometry of the coil system may used, the intensity of the signal would have been changed by 4.5 times. In general, Card 1/2	ACC NR: AT 6020476 (A)	SOURCE CODE: UR/0000/65/000/00084/0089
TITLE: Evaluation of two procedures for the electrical compensation of the primary signal in aerial induction prospecting SOURCE: AN UKrSSR. Teoriyà i elementy sistem othora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova-dumka, 1965, 84-89 FOPIC TAGS: phase shift analysis, prospecting WESTRACT: In the first procedure, the intensity and phase of compensation remain the same throughout the survey; in the second, the phase remains the same but the intensity tensity, which are due to a disruption of the geometry of the system of the transmit- ing and receiving coils, are calculated in percentages. The second method of compen- ation for such losses has some definite advantages over the first since the compensat- ation for such losses has some definite advantages over the first since the compensat- ave been disrupted by as much as 17-20%. Had the first method of compensation been sed, the intensity of the signal would have been changed by 4.5 times. In general,	WTHOR: Kuzovkin, S. K. (L'vov)	
SOURCE: AN UKrSSR. Teoriyà i elementy sistem otbora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova-dumka, 1965, 84-89 TOPIC TAGS: phase shift analysis, prospecting ABSTRACT: In the first procedure, the intensity and phase of compensation remain the is automatically equalized to the intensity of the signal received. Losses in the in- ting and receiving coils, are calculated in percentages. The second method of compen- sation for such losses has some definite advantages over the first since the compensat- bave been disrupted by as much as 17-20%. Had the first method of compensation been used, the intensity of the signal would have been changed by 4.5 times. In general,	RG: none	•
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ABSTRACT: In the first procedure, the intensity and phase of compensation remain the same throughout the survey; in the second, the phase remains the same but the intensity is automatically equalized to the intensity of the signal received. Losses in the in- ting and receiving coils, are calculated in percentages. The second method of compen- sation for such losses has some definite advantages over the first since the compensat- have been disrupted by as much as 17-20%. Had the first method of compensation been used, the intensity of the signal would have been changed by 4.5 times. In general,	OURCE: AN UkrSSR. Teoriya i elem nd elements of systems for select 965, 84-89	enty sistem otbora geofizicheskoy informatsii (Theory ing geophysical information). Kiev, Naukova-dumka,
is automatically equalized to the intensity of the signal received. Losses in the in- tensity, which are due to a disruption of the geometry of the system of the transmit- ting and receiving coils, are calculated in percentages. The second method of compen- sation for such losses has some definite advantages over the first since the compensat- ed signal is very nearly the true one, even though the geometry of the coil system may have been disrupted by as much as 17-20%. Had the first method of compensation been used, the intensity of the signal would have been changed by 4.5 times. In general,	OPIC TAGS: phase shift analysis,	prospecting
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AUTHORS :	Blazhkevich, B.I., and Kumaykin, S.K.	
TITLE :	Blaznkevich, Brity determination of compensating the Comparison of electrical methods of compensating the primary signal in induction aerial surveys	
SOURCE	Akademiya nauk Ukrayins'koyi NSR. Instytut mashynoznavstva i avtomatyky. L'viv. Avtomaticheskiy mashynoznavstva i avtomatyky. L'viv. Avtomaticheskiy mashynoznavstva i avtomatyky. L'viv. Avtomaticheskiy mashynoznavstva i avtomatyky. L'viv. Avtomaticheskiy	*
attitude, generator Method of in a trail Institut m of Machine electrica compensat resultant accurate	Kontrol 1 Island considerations and because of the indeterminacy introduced by variations of mutual it is difficult to obtain large distances between the and receiver in aerial geophysical surveys using the induced earth currents, where the receiver is suspended induced earth currents, where the receiver is suspended ing gondola. Hence a comparative study was made at the ashinovedeniya i avtomatiki AN USSR (Institute of Science ashinovedeniya i avtomatiki AN USSR (Institute of Science ashinovedeniya i avtomatiki AN USSR (Institute of Science ashinovedeniya i avtomatiki AN USSR) of two methods of direct compensation of the effect of the primary signals icon of the primary signal alone; compensation of the signal. It was found that the first permits more detection of the useful signal, while the second has the	•
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BLAZHKEVICH, B.I., kand. tokhn. nauk, otv. md.; MIKHAYLOVSKIY, V.N., red.; SVENSON, A.N., kand. tekhn. nauk, red.; MIZUW, L.Ya., kand. tekhn. nauk, red.; KUZONKIN, S.K., glav. inzh., red.; BELICHENKO, A.I., ved.inzh., red.; SABANEYEV, R.D., red.izd-va; RAKHLINA, N.P., tekhn.red.
[Apparatus for electric prospecting by air; its design and operation] Apparatura aeroelektrorazvedki; proektirovanie i ekspluatatsiia. Kiev, Izd-vo AN UKr.SSR, 1963. 155 p. (MIRA 17:2)
1. Akademiya nauk URSR. Kiev. Instytut mashynoznavstva ta avtomatyky, Ivov. 2. Chlen-korrespondent AN Ukr. SSR (for Mikhaylovskiy).

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KUZOVKIN, S.K.

Quantitative determination of interferences from changes in the geometry of a system of some variants of the inductive method of aero-electric prospecting. Izv. AN SSSR Ser. geofiz. no.10:1513-1521 0 *64. (MIRA 17:11)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR.

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Maria Maria GALUZO, I.G.; LEVIT, A.V.; NOVINSKAYA, V.F.; GOLOSOV, V.I.; GORBUNOVA, 7.1.; KUZOVKIN, Ye.M. Epizootiological foundations of the natural foci of toxoplasmosis. Trudy Inst. zool. AN Kazakh. SSR 22:27-33 '64. (MIRA 17:12) CIA-RDP86-00513R000928230003-4"

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RATNER, Ye.I.; SMIRNOV, A.M.; KHUAN KHUN-SHU [Huang Hung-shu]; UKHINA, S.F.; KUZOVKINA, I.N.
Assimilation of amino acids as a source of nitrogen by isolated alfalfa roots and by entire pea plants in sterile cultures. Fiziol. rast. 10 no. 6:673-681 N-D '63. (MIRA 17:1)
1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sviences, Moscov.





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s/122/61/000/002/011/011 A161/A126 Kuzovkov, A. A., Engineer AUTHOR: Technological principles of multi-part (group) machine tool lines for machining different parts without resetting TITLE: Vestnik mashinostroyeniya, no. 2, 1961, 77 - 82 PERIODICAL: The article presents a theoretical consideration of general operation principles of a flow-line of machine tools for simultaneous machining of a TEXT: number (group) of different machine parts without resettings. It is stated that the idea attracts the attention of machine-builders since long. Generally, the parts in a group must have common geometrical features, be of similar metal, and require similar surface finish. The idea of geometrical similarity is shown in a group of six gears, and the idea of the line work in a chart naming the machine tools and showing the sequence of 16 operations. Formulae are included for calculating the number of parts that can be produced simultaneously to obtain the wanted output quantity. The calculations are accompanied by a flow-line plan and a graph with a curve series plotted to facilitate calculations. It is proved that a line Card 1/2

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Aikaloids of Heliotropium lanlocarpum. (D. P. Men'shi-koy and A. D. Kutavkov. Khar. (Oshehel Khim. (J. Gen. Chim.) 10, 1702 (2)10100, Childatourod koleerydeiletr-dan (Cd.10, N) with CtO-ActOH yields an ammab ketore, (Gd.0, N, shown to be identical with actronecand; teme-carbarone, m. 2017 (from httDH); etrine, m. 165-7 (after sublimation on couro); perate, m. 105-7 (from the sublimation on couro); perate, m. 105-7 (from http:// from httDH); etrine, m. 105-7 (from http:// from httDH); etrine, m. 105-7 (from Merco), lab. - 34⁺; picate, m. 187-84, used for participation of the interve has CdH_0 , which with 0.5 mode flatC1 in CHCI yield a mono-ffa derier, m. 133-4⁺ (from MerCO), lab. - 34⁺; picate, m. 157-84, used for participation of the order hy drying at 80⁺). The imon-Bi from HerC10, lab. - 6.00⁺, whose picate in, 134-5⁺ from MerC01, lab. - 6.00⁺, whose picate in, 134-5⁺ from MerC01, lab. - 6.00⁺, whose picate in, 134-5⁺ from MerC101, lab. - 6.00⁺, whose picate in, 134-5⁺ from MerC101, lab. - 6.00⁺, whose picate in, 134-5⁺ from MerC101, lab. - 6.00⁺, whose picate in and fract-bonally pptd. by MerCO. End/0 in the form of the HCT salts, gave upon treatment with picric acid (after NH,011 treat-Somily pptd. by Mc(CO-EigO in the form of the HCEsalts, gave upon treatment with pieric acid (after NH₄OH treat-ment) a pierale, m. 140-7° (from EtOH), of the base $GulinO_N$, which gave the *HCI* salt, m. 147-8° (from MerCO), and upon hydrogenation in EtOH over Pt (catalyst gave two-dromon and), after hydrolysis of the Harenidue. The above facts fix the location of the 2 HC groups of heliotridine. Treatment of θ_{s} , heliotrine with



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2 5 10 CA Alkaleide ef Rasophyten erinaceum. A. D. Kuroykov, and G. P. Men'shikov (S. Ordzhonikidze All-Union Chem., "1 Pharm. Inst., Moscow). Zhur. Obikchel Khim. (J. Gen. Chem.) 20, 1624-7(1960).—The upper parts of the plant yiekied on steam distn. with added NAOH a total of 0.1?; 1-2,6-dimethylpiperidine [HCI tail; m. 253-4" (from EtOH); free base, b. 133-5", dit 0.5400, wg 1.4442, on -13.8"], and 1-1,2,6-trimethylpiperidine, b. 153-4" (from 848 m," 1.4485, on -43.02" (HCI sail; m. 102.5-4.0") Heating the ist product with AgOAc and aq. AcOH to 180' gave 2.5-dimethylpiperide, m. 117-19". Methylation of the 1st product by 11COH and 30% on CH (gave an 11CI tail, m. 102.5-4.0", klentical with the material ob-lained from the 2nd alkabid above, i.e. the 1,2,6-tri-Me deriv. G. M. Kosolapoff

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PA 19471 USGRA (Chemistry atimalarials Dec 51 "Syntheses in the Pseudoheliotridane Series," A. D. Thurovkoy, G. P. Men'shikov, Phytochem Isb, All- Umican Sci Res Chemicophar Inst imeni S. Ordzhoni- Lidze Zhur Obshch Khim" Vol XXI, No 12, pp 2245-2248 Polloving earlier work on synthesis of plasmoquine sualogue conte pseudoheliotridane group, synthe- sized by reactions of chlorropseudoheliotridane with Expropriate anines or Khenolate: methyl-benzyl-, etted by reactions of chlorropseudoheliotridane with Expropriate anines or Khenolate: methyl-benzyl-, etted by reactions of chlorropseudoheliotridane with Expropriate anines or Khenolate: methyl-benzyl-, etter distry - Antimilarial (Corite) Dei 51 Thenyl-pseudoheliotridyleriaes, R-pseudoheliotri dyl-riperidine. and pseudoheliotridyl-phenyl etter. Characterizes abore compda. Discusses reaction conditions.	. A VOXYOSTA	



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KUZOVKOV, A. D. 1.1 Thusleides of planies Nardesmin isovigata. P. S. Manange-tow and A. D. Kunovkay (S. Ordfaonikidze All-Union Chem.-Pharm. ISST., Moscow). Zhur. Ossleckel Rhim. 23, 168-51(1963).--Rata. of 22 kg. of dried plant extd. as in second preceding abstr. cave 43 s. bases insol. in 11/0 and 19 r. bases sol. readily in CHCls. Batn. of the former group b with MerCo gave 25 g. senecionize, CulfaCo.N. m. 238 (from CHCls), laip -61.5°. Its picrate, m. 101°; nitrate, m. 214° (from caUH). Hydrolysis with hot B4(OH) gave the same scid ., 148-8.6°, that had been obtained on hydrolysis of ph. Carylina (cf. Konovalova and Orekhor, ... Midd. 6, 301(1978); Barger and Blackie, C. A. 30, 50099). The acid forms N. Iscience, m. 188-6°. The other product of hydrolysis is rebraseling, m. 110-20°, (a) 50.0°; ffCl asis, m. 163-4°. The McCO mother Heave stier removal of stim above an addid was concert. yielding 20 g. pleitiphylline, m. 137-8° (cf. Orekhov, et al., C.A. 29, 40164, 7989). The H₄O-col. bases rubbed with MerCO gave as unstated ant. of a 3rd alkaloid, identified as remardise, m. 193-8°; biterine, -m. m. 201° (cf. Danikova and Konovalova, C.A. 45, 2000a). Chem Abs 15 Jan 54 Organic Chem مر به المراجع · · · · · . de til stadet at amontation and the post of the ę 🐖 生活的推动。



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268135 KUZOVKOV, A. 268135 ethyl-acetic acid, differing from it by the pres "Investigation of Alkaloids of the Senceio Species. Research chemo-Pharmaceutical Inst im S. Ordzhoninius," A. Danilova and A. Kuzovkov, All-Union Scicomposition CrH803, designated sarracinic acid. The latter acid has the carbon frame of methyl-Sep 53 (angelic) acid and an unsaturated acid with the IX. Structure of Alkaloids from Senecio sarrace-Senerio sarracenius, are diesters of the amino-glycol platinecine with cis- () -dimethylacrylic racine and N-oxide of sarracine, isolated from It was established that the new slkaloids sar-Ehur Obshch Khim, Vol 23, No 9, PP 1597-1600 ence of a hydroxy-group and a double bond. ISGR/Chemistry - Alkaloids kidze, Y cov ÷.

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 AUTHORS: Platonova, T. F., Kuzovkov, A. D., Massagetov, P. S. TITLE: Investigation of Aconite Alkaloids (Issledovaniye akonitovykh alkaloidov) IX. On the Alkaloids of Aconitum excelsum (IX. Ob alkaloidakh Aconitum excelsum) PERIODICAL: Zhurnal Obshchey Khimii, 1958,Vol.28, Nr 1, pp.258-261(USSR) ABSTRACT: The alkaloids of the plant Aconitum excelsum Rehb. were investigated by S. Y. Yunusov in whose report a short indication to the isolation of mesaconitine and two bases. These bases were characterized by the melting points (265 - 267 and about 100°C). The authors investigated the roots of the plant. The material was collected in Tyan'Shane in fall after the dying of their upper parts. The present sample contained about 3 % alkaloid mixture whose chromato graphic investigation on paper only indicated three products (R, 0,666, 0,49 and 0,38). By splitting up the mixture it was possible to liberate lappaconitine (Rf 0,66) and two new alkaloids (R 0,74 and 0,76) 		79-1-56/63
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Card 1/2 for whom the names aksin and aksinatin were suggested, and	Card $1/2$	which it was not possible to detoimine were suggested. The for whom the names aksin and aksinatin were suggested. The

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79-1-56/63 Investigation of Aconite Alkaloids. IX. On the Alkaloids of Aconitum ex- celsum dry roots contain 0,016 % aksin and 0,002 % aksinatin. In this manner the investigated material contained at least five ba- ses. The products R, 0,49 and 0,38 could not be separated as such. Aksin, C ₂ H ₂ O ₂ N, contains two alcohol groups and one acetoxy group and apparently also a sincle ether bond. Ak- sinatin, C ₂ H ₂ O ₂ N, has an alcohol and a keto group and, like aksin, also an acetoxy group. By saponification of the latter anino alcohols were obtained from both, accordingly - aksinidine, C ₁ H ₂ O ₄ N, and aksinatidine, C ₁ H ₂ O ₃ N. The superterrestrial parts of the plant which were collected in the pre-flowering-time contained 0,5 % of the noncrystal- line alkaloid sum; by paper chromatography of the sum three products were determimed (R, 0,64, 0,49, 0,38), from which only lappaconitine (0,06 %) could be liberated. There are 2 references, all of which are Slavic. ASSOCIATION: All-Union Scientific Chemical-Pharmaceutical Institute imenis. Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel'skiy khimiko- -farmatsevticheskiy institut imeni S. Ordzhonikidze) SUBMITTED: January 8, 1957 AVAILABLE: Library of Congress Card 2/2 1. Chemistry 2. Plora-Chemical analysis	 Investigation of Aconite Alkaloids. IX. On the Alkaloids of Aconitum excelsum dry roots contain 0,016 % aksin and 0,002 % aksinatin. In this manner the investigated material contained at least five bases. The products R, 0,49 and 0,38 could not be separated as such. Aksin, C₂H₂O₅N, contains two alcohol groups and one acetoxy group and ² apparently also a single ether bond. Aksinatin, C₂H₂O₆N, has an alcohol and a keto group and, like aksin, islo² an acetoxy group. By saponification of the latter anino alcohols were obtained from both, accordingly - aksinidine, C₁OH₂O₆N, and aksinatidine, C₁OH₂O₅O₅N. The superterrestrial parts of the plant which were collected in the pre-flowering-time contained 0,5 % of the noncrystal-line alkaloid sum; by paper chromatography of the sum three products were determined (R_b 0,64, 0,49, 0,38), from which only lappaconitine (0,06 %) could be liberated. There are 2 references, all of which are Slavic. ASSOCIATION: All-Union Scientific Chemical-Pharmaceutical Institute imenis. Ordzhonikidze (Vsecoyuzyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze) SUBMITTED: January 8, 1957 AVAILABLE: Library of Congress 			
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Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel'skiy knimiko- -farmatsevticheskiy institut imeni S. Ordzhonikidze) SUBMITTED: January 8, 1957 AVAILABLE: Library of Congress	Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel'skiy knimiko- -farmatsevticheskiy institut imeni S. Ordzhonikidze) SUBMITTED: January 8, 1957 AVAILABLE: Library of Congress		dry roots contain 0,016 % aksin and 0,002 % aksinatin. In this manner the investigated material contained at least five ba- ses. The products R, 0,49 and 0,38 could not be separated as such. Aksin, $C_{2}H_{2}O_{5}N$, contains two alcohol groups and one acetoxy group and apparently also a single ether bond. Ak- sinatin, $C_{2}H_{2}O_{5}N$, has an alcohol and a keto group and, like aksin, also an acetoxy group. By saponification of the latter amino alcohols were obtained from both, accordingly - aksinidine, $C_{1}O_{5}H_{2}O_{5}N$, and aksinatidine, $C_{1}O_{5}H_{2}O_{5}N$. The superterrestrial parts of the plant which were collected in the pre-flowering-time contained 0,5% of the noncrystal- line alkaloid sum; by paper chromatography of the sum three products were determimed (R, 0,64, 0,49, 0,38), from which only lappaconitine (0,06%) could be liberated. There are 2 references, all of which are Slavic.	
AVAILABLE: Library of Congress	AVAILABLE: Library of Congress		Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel'skiy knimiko- -farmatsevticheskiy institut imeni S. Ordzhonikidze)	
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AUTHORS :	Kuzovkov, A. D., Bochærnikova, A. V.	79-2-62/64
TITLE: t PERIODICAL: ABSTRACT:	The Investigation of Aconite-Alkaloids (Isa ovykh. alkaloidov). X. "Elatine". The Structur Acid (X. Elatin. Stroyeniye eterifitsiruyus Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr It was published already in a preceding wor xyls of the methyl succinic acid and the ni ranilic acid form a grouping of the N-subst cinimide in the elatine molecule. Proceedin tion the fomula for "elatine" was fixed. Th the present work. On the occasion of the r elatidine and 2-/N-(3-methyl pyrrolidinc)/ obtained. The latter is formed by the redu ether compound and to reduction of two car succinyl group to the methyl group from wh nyls of the acid quoted in the title can b have the following structural formula: HOO	shchey kisloty). 2, pp. 556-558 (JSSR) rk that the carbo- itrogen of the anth- tituted methyl suc- ng from this assump- his is confirmed by eduction of elatine, -benzyl-alcohol were ction cleavage of an bonyls of the methyl ich two amide carbo- e concluded which §
Card $1/2$	Simultaneously with the present work Cookson et al. (ref. 5) found this structural formula on the basis of spectroscopic investi- gations. The alkaloids methyl licaconitine and elatine apparently differ	CO-CH2

The Investigation of Aconite-Alkaloids. X."Elatine". 79-2-62/64 The Structure of Etherifying Acid.

by the fact that the latter has a methyldioxy group instead of the glycol group of the methyl licaconitine. Both show similar pharmacological properties which, however, are not due to the presence of the succinimide group, for also "delsemine", "avarharidine", and ajacine have similar effects (according to the data of the co-operators of the Federal Institute for Scientific Chemical and Pharmaceutical Investigations P. M. Dozortseva). The presence of the group mentioned last, however, explains the sensitivity to ammonia; thus, methyl licaconitine changes into delsemine. Also the extraction of the first two alkaloids improves if soda is used instead of ammonia (with elatine from delphinium elatum from 0,03 to 0,15% and the hydriodide of methyl licaconitine from delphinium dictyocarpum D. C. to 0,7%). The method of preparation and specific data are given. There are 10 references, 7 of which are Slavic.

ASSOCIATION: All-Union Scientific Research Institute for Chemistry and Pharmacy imeni S. Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel' skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze). SUBMITTED: February 7, 1957 AVAILABLE: Library of Congress

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AUTHOR:	Kuzovkov, A. D.,	79-2-63/64
TITLE:	The Investigation of Aconite-Alkalo tovykh alkaloidov). XI. The Oxidation Forming in the Dehydrogenation of " uglevodoroda C18H18 obrazuyushchego gorina).	Zongorine" (XI. Okisleniye
PERIGDICAL:	Zhurnal Obshchey Khimii, 1958, Vol.	
A BSTRACT :	In order to determine the position oxidized with potassium ferricyanid under which Ruzhichka (ref. 3) oxid ion also two acids were obtained th were isolated. The results of the i these were the methyl esters of dig 2',4',- acid and the ester of phene This was also confirmed by ultra-vi	lized retene. On this occas- ne methyl esters of which investigations showed that ohenyl tetracarbo-xylic -2,3 intrene tricarboxylic acid. lolet spectra and infrared
	spectra respectively. The results of assumption published already earlied that the hydrocarbon C ₁₈ H ₁₈ is tria it could be observed that the alky and 9 or 10 of the phenanthrene numpossibility to obtain the above ac	alkyl phenanthrene. Moreover groups are in position 1,7 cleus, for this is the only

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AUTHOR:	Kuzovkov, A. D. SOV/79-28-8-61/66	
TITLE:	Investigations on the Aconital Alkaloids (Issledovaniye akonitovykhalkaloidov) XII. The Structure of the Hydrocarbon C ₁₈ H ₁₈ and a Possible Formula for Songorin (XII.Stroyeniye uglevodoroda C ₁₈ H ₁₈ i vozmozhnaya fermula zongorina)	
PERIODICAL:	Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp.2283 - 2288 (USSR)	
ABSTRACT: Card 1/4	The author had earlier (Ref 1) obtained the hydrocarbon $C_{18}H_{18}$ by dehydrogenating songorin with selenium. He accomplished this synthesis by the reactions in diagram 1. By dehydrating tertiary alcohols formed by the Grignard reaction it is possible to obtain a mixture of isomers which differ in respect to the position of the double bond. In this case it is possible after the cyclization and the sub- sequent dehydration to form not only the 1,10-dimethyl-7- ethylphenanthrene, as the diagram indicates, but al no 1,10-dimethyl-5-ethylphenanthrene. The product separated out by the author after the dehydration was found to be identical with the hydrocarbon $C_{18}H_{18}$ which formed from	
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SOV/79-28-8-61/66 Investigations on the Aconital Alkaloids. XII. The Structure of the Hydrocarbon $C_{18}^{H}_{18}$ and a Possible Formula for Songorin the dehydration of songorin. The position of the ethyl group at the 7th carbon atom had been ascertained previously (Ref, 2) by exidizing the hydrocarbon $C_{18}H_{18}$ to diphenyl tetracarbonic acid 2,3,2',4'. The 1-brome-2-o-tolyl propane was made from e-xylol (Diagram 4). Cyclohexanone-1,3, whose synthesis is described in the literature (Diagram 3), was used as the starting product in synthesizing 1-ethylcyclohexanone-3. The cyclohexadione reacts in the Grignard reaction as the eno? form (Diagram 4). 1-Ethylcyclohexanone-3, which is characterized as a semicarbazone, was obtained by the hydrogenation of cyclohexone using a nickel skeleton catalyst. The determination of the structure of $C_{18}H_{18}$ allowed generalizations about certain properties of songorin to be made and led to a few considerations on the structure of this alkaloid, which, on the basis of the analytical data, showed that either of the formulae C21H2903N or C22H3103N was possible. It had been reported that the alkaloid napollin had been split into napellin and napellonin, and since the progerties of this last compound are very similar to those Card 2/4

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	s on the Aconital Alkaloids. All. The Born born born between the Hydrocarbon C ₁₈ H ₁₈ and a Possible Formula for Songorin of songorin it was possible to decide upon the formula on this basis. The hypothetical formula (I) was proposed for napellonin (Ref 8), and this indicated that formula (I) is the proper one for songorin. Nevertheless, formula (II) was more in accord with the results of the dehydrogenation of the songorin, and the author accepted this formula in preference to formula (I). There are 9 references, 4 of which are Soviet.	
ASSOCIATION:	Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevtiches- kiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemical-Pharmaceutical Research Institute imeni S. Ordzhoni- kidze)	
ASSOCIATION: SUBMITTED:	Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevtiches- kiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemical-Pharmaceutical Research Institute imeni S. Ordzhoni-	
	Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevtiches- kiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemical-Pharmaceutical Research Institute imeni S. Ordzhoni- kidze)	
SUBMITTED:	Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevtiches- kiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemical-Pharmaceutical Research Institute imeni S. Ordzhoni- kidze)	

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Card 1/2	lae $C_{27}H_{31}O_6N$ and $C_{26}H_{34}O_2N_2$ were separated from the mixture. The forest aconite (Aconitum nemorum M. Pop.) is a perennial grass-type plant with blue flowers and a little chain of
ABSTRACT :	The orbicular-leaf aconite (Aconitum rotundifolium Kar. et Kir.) is a small perennial plant with two tubers and pale- lilac flowers. The underground parts of it were collected during blossom in August and September in the central part of Tyan-Shan for the purpose of separating the alkaloids. The dried plant consisted of about 0.15 % alkaloids. In the mix- ture four bases were found by paper chromatography. In the nluminum oxide chromatography alkaloids of the empiris formu-
PERIODICAL	Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 3126-3128 (USSR)
TITLE :	Investigation of the Aconite Alkaloids (Issledovaniye akoni- tovykh alkaloidov) XIII. Alkaloid Aconitum Rotundfolium Kar. et Kir. and Aconitum Nemorum M. Pop. (XIII. Alkaloidy Aconitum rotundifolium Kar. et Kir. i Aconitum nemorum M. Pop.)
AUTHORS :	SOV/79-28-11-50/55 Platonova, T. F., <u>Kuzovkov, A. D.</u> , Massagetov, P. S.

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 TITLE: Alkaloids of Plants of the Family Chenopodiaceae (Goosefoot) (Alkaloidy rasteniy semeystva Chenopodiaceae (marevyye)) habasis Jaxartica and Arthrophytum Leptocladum (Anabasis jaxartica i Arthrophytum leptocladum) PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 3128-3131 (USSR) ABSTRACT: Anabasis jaxartica (Err.) P. 40 	AUTHORS:	Platonova, T. F., Kuzovkov, A. D., Massagetov, P. S.
 PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 3128-3131 (USSR) ABSTRACT: Anabasis jaxartica (Ego.) Benth. is a 20-30 cm high, perennial plant, which grows in the salt plains of the Syr-Dar'ya river. The dry plant contains 0.16 % alkaloids. In alkaloid mixtures four bases were produced by paper .hromatography (R, 0.80, 0.41, 0.17). In the separation, depending on the basicity, it was possible to separate 2 bases, Nr 1 (R_f 0.33) and Nr 2 (R_f 0.41). The substances with the denominations R_f 0.60 and 0.17 on the chromatogram yield weak stains and obviously are contained in the plant in only small quantities. Base Nr 1 corresponds to the formula CoH₁ON; it is mater result. 	TITLE:	Alkaloids of Plants of the Family Chenopodiaceas (Goosefoot) (Alkaloidy rasteniy semeystva Chenopodiaceas (marevyye)) Anabasis Jaxartica and Arthroni
ABSTRACT: Anabasis jaxartica (Bge.) Benth. is a 20-30 cm high, perennial plant, which grows in the salt plains of the Syr-Dar'ya river. The dry plant contains 0.16 % alkaloids. In alkaloid mixtures four bases were produced by paper .hromatography (R _p 0.80, 0.41, 0.17). In the separation, depending on the basicity, it was possible to separate 2 bases, Nr 1 (R _f 0.33) and Nr 2 (R _f 0.41). The substances with the denominations R _f 0.60 and 0.17 on the chromatogram yield weak stains and obviously are contained in the plant in only small quantities. Base Nr 1 corresponds to the formula $C_0H_{ep}ON$; it is mator result	PERIODICAL:	
		0.41, 0.17). In the separation, depending on the basicity, it was possible to separate 2 bases, Nr 1 (R_f 0.33) and Nr 2 (R_f 0.41). The substances with the denominations R_f 0.80 and 0.17 on the chromatogram yield weak stains and obviously are
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SOV/79-28-11-51/55 Alkaloids of Plants of the Family Chenopodiaceae (Goosefoot). Anabasis Jaxartica and Arthrophytum Leptocladum lowing absorption bands can be seen: 3.0 μ (a weak band, (NH)), 3.8 μ (a double band, hybrid ion), 6.2 μ (a double band, conjugated bonds). Their nitrogen is of secondary type. The composition and the properties of base Nr 1 as well as the constants of its salts correspond rather exactly to those of N-methyl-4-oxy- β -phenyl-ethyl amine (Table 1) which never before had been found on plants, although its mothyl derivative (hordenine - Ref 2) has been long known. The base Nr 2 C₁₀H₁₅ON differs from base Nr 1 by the group CH₂. Its spectrum differs very little from that of base Nr 1. The authors called this new base Jaxartinin. From Arthrophytum leptocladum M. Pop. N. K. Yurashevskiy (Ref 3) obtained dipterine, leptocladine, and N-methyl- β -phenyl-ethyl amine. It contained 3.7 % bases. The authors succeeded in additionally separating the base $C_{12}H_{14}$ N₂ which has an NCH₃ group. One of the nitrogen atoms is of basic character. This base with an excess hydrochloric acid forms a chlorine monohydrate. Its infrared spectrum Card 2/3points to an associated NH-group. The ultraviolet spectrum is

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Alkaloids of Jaxartica an	SOV/79-28-11-51/55 Plants of the Family Chenopodiaceae (Coosefoot). Anabasis d Arthrophytum Leptocladum
	identical with that of indole. Based on the above said as well as on the similarity of the constants of the obtained base and its salts with those of 3-methyl-1,2,3,4-tetrahydro- β -carbinol (Ref 4, Table 2) they can be regarded as identical. This carbinol had never before been found in plants. There are 2 tables and 5 references, 2 of which are Soviet.
ASSOCIATION:	Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti- cheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemo-Pharmaceutical Research Institute imeni S. Ordzhonikidze)
SUBMITTED:	October 15, 1957
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Card 3/3	
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AUTHORS:	SOV/79-28-11-52/55 Platonova, T. F., Kuzovkov, A. D., Massagetov, P. S.
TITLE:	On the Alkaloids of the Plants of the Family Asclepiadaceae (Milkweed) (Ob alkaloidakh rasteniy sem. Asclepiadaceae (lastovnevykh)) I. Antitoxicum Funebre (Boiss. et Ky.) Pobed. (I. Antitoxicum funebre (Boiss. et. Ky.) Pobed.)
PERIODICAL:	Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 3131-3133 (USSR)
ABSTRACT :	The content of alkaloids of the plant family Asclepiadaceae is low. The authors report on the separation of two alkaloids (Ref 1), the tylophorine $C_{24}H_{27}O_4N$ and the tylophorinine
	C ₂₃ H ₂₇ O ₄ N from the plant Tilophora astimatica wigt at mino, as well as of the nicotine from the Asclepias syriaca (Ref 2). Of the 40 types of this plant family growing in the USSR only 2, the Cynarchum acutum and the L. Vincetoxicum sibiri- cum have been investigated until now; no alkaloids were found in them (Ref 4). The great interest for alkaloids of the
Card $1/3$	plant family Apocynaceae and the solution to investigate that of the Asclepiadaceae caused the authors to investigate

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SOV/79-28-11-52/55 On the Alkaloids of the Plants of the Family Asclepiadaceae (Milkweed). I. Antitoxicum Funebre (Boiss. et Ky.) Pobed. the alkaloids of the latter. Intitoxicum funebre (Boiss. et Ky.) is a plant of a height of 40-70 cm. It grows on rocky slopes and unfertile places. The plants collected in the Caucasus in dried state contained 0.26 % alkaloids. In the paper chromatography the bases R_{f} 0.45 and 0.33 were found among others, in the aluminum oxide chromatography the base C23H2503N (Rf 0.45), which has three OCH3 groups. In the infrared spectrum the bands of the lactam carboniles and of the groups OH and NH are not present. The alkaloid hitherto not described was given the name antofine. Besides, two bases were separated in very small yields with only their melting points being determined. There are 5 references, 4 of which are Soviet. ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemo-Pharmaceutica? Research Institute imeni S. Ordzhonikidze) Card 2/3

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5 (3) AUTHOR:	Kuzovkov, A. D		
TITLE:	Investigation of Aconite Alkaloids (Issledovaniye alkaloidov).14. On the Structure of the"Zongorine" (14. O stroyenii alkaloida zongorina)	akoni tovykh Alkaloid	
PERIODICAL:	Zhurnal obshchey khimii, 1959, Vol 29, Mr 5, pp 17 (USSR)		
ABSTRACT 1	"Zongorine" and "Napellonine", which was produced K. Wiesner, are identical. The author thanks K. Wi having put a sample of "Napellonine" at his dispo- formula for "Zongorine" given earlier is confirme- data. The following was found in the "Zongorine" m allyl alcohol group, a saturated substituted pipe a CH ₂ -group in Position 16 and a CH-group in posi	sal. The d by new olecule: an ridine ring, tion 17.	
	There is probably also a keto group of "Zongorine" in position 8 Derivatives of "Zongorine" were not cleaved according to the Hofmann reaction. There are 11 references, 3 of which are Soviet.		
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Investigation 14. On the Str	vestigation of Aconite Alkaloids. . On the Structure of the "Zongorine" Alkaloid	
ASSOCIATION:	Structure of the second sec	
SUBMITTED:	March 21, 1958	
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c(7)	sov/79-29-8-75/81
5(3) AUTHORS:	Kuzovkov, A. D., Platonova, T. F.
TITLE:	Investigation of the Aconite Alkaloids. XV. On the Structures of Elatine, Methyl Licaconitine, Ajacine, Delsemine, Awadchar dine, Licaconitine, and Eldeline
PERIODICAL	Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2782 - 2786 (USSR)
ABSTRACT :	Of the otherwise well investigated polyhydroxylated alkaloids of the plant genera Aconitum and Delphinium the structures of methyl licaconitine, ajacine, delsemine, awadcharidine, and licaconitine which are esters of licoctonine (I) had until recently remained unknown, since it had not been known which of the three hydroxyl groups in them is subjected to an ester fication when the ester is formed. In the authors' opinion the question can be solved on the basis of the previously ob- tained data and the material collected by them experimentally although on a small scale. For the alkaloid elatine (Ref 4), as an ester of the acid (II), the authors suggest the formula (IV), for its amino alcohol, elatidine, the formula (III).
Card 1/3	By transformation of the elatidine into anthranoyllicoctonin

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Structures or	of the Aconite Alkaloids. XV. On the SOV/79-29-8-75/81 Elatine, Methyl Licaconitine, Ajacine, Delsemine, Awadchari- tine, and Eldeline
	eldelidine; it is identical with deltaline. In eldeline the grouping
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	the noterences, 8 of which are boulded
	There are to reistonce, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevtiches- kiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemopharmaceutic Research Institute imeni S. Ordzhonikidz
SUBMITTED:	July 5, 1958
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Aconitic alkaloids. Part 17: Structure of the alkaloid zongo-rine. Zhur.ob.khim. 30 no.5:1727-1732 Hy '60. (MIRA 13:5) KUZOVKOV, A.D. 1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. .

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1 YAKHONTOVA, L. D.; KUZOVKOV, A. D. Alkaloids of the family Labiatas. Part 2: Partial structural formula of rosmarinecine. Zhur. ob. khim. 33 no.1:308-309 (MIRA 16:1) '63. 1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy (VILAR). (Rosmarinecine)

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SYUY ZHEN'-SHEN [Hau Jon-shong]; KUZOVKOV, A.D. Alkaloids from Leontice ewersmanii BGE. Part 5: Structure of "leontidin." Zhur.ob.khim. 33 no.6:2067-2071 Je 163. (MIRA 16:7) 1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy (Alkaloids) (Leontice) (VILAR).

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Alkaloids from the seeds of the plant Delphinium orientale J. Gay. (MIRA 16:7) Med.prom.17.no.4:19-20 Ap 163. PLATONOVA, T.F.; KUZOVKOV, A.D. 1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy. (ALKALOIDS) (LARKSPUR) APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928230003-4"



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SYUY ZHEN'-SHEN' [Hau Jen-shen]; KUZOVKOV, A.D.; Leontice ewersmannii Bge. alkaloids. Part 6: Structure of leontidine. Zhur.ob.khim. 34 no. 5:1669-1672 My '64. (MIRA 17:7) 1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy (VILAR). a sen a s

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TOPIC TAGS: antibiotic, tetracycline, spiceter, ABSTFACT: This Author Certificate presents a method for purifying tetracycline. To remove epitetracycline and other organic admixtures, the solution of the To remove epitetracycline and other organic admixtures, the solution of the antibiotic is treated with a calcium salt such as calcium chloride at pH of 3.1-3.4, antibiotic is treated with a calcium salt such as the solution of the solution. The remulting compound is washed with water at pH of about 3.0.	
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YELIZAROVA, R.N.; KUZOVKOV, A.D.; KIBAL'CHICH, P.N.; SHRETER, A.I. Chemical study of Plectranthus glaucocalyx Maxim. Khim. prirod. soed. no.6:427-428 165. 1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy. Submitted March 18, 1965. L . LATA APPROVED FOR RELEASE: 06/19/20000A, ICTA RDRS6:0001300092823000 RABINOVICH, I.M.; KIBAL'CHICH, ISKAYA, V.V.; TRUINEVA; KUZOVKOV, A.D.; BEREZHINSKAYA, V.V.; TRUINEVA; Plants of the Stephania ganus as a source of new medicinal preparations. Apt. delo 14 no.6:19-22 N-D '65. (MIRA 18:12) 1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy, Moskva. Submitted June 15, 1965.



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