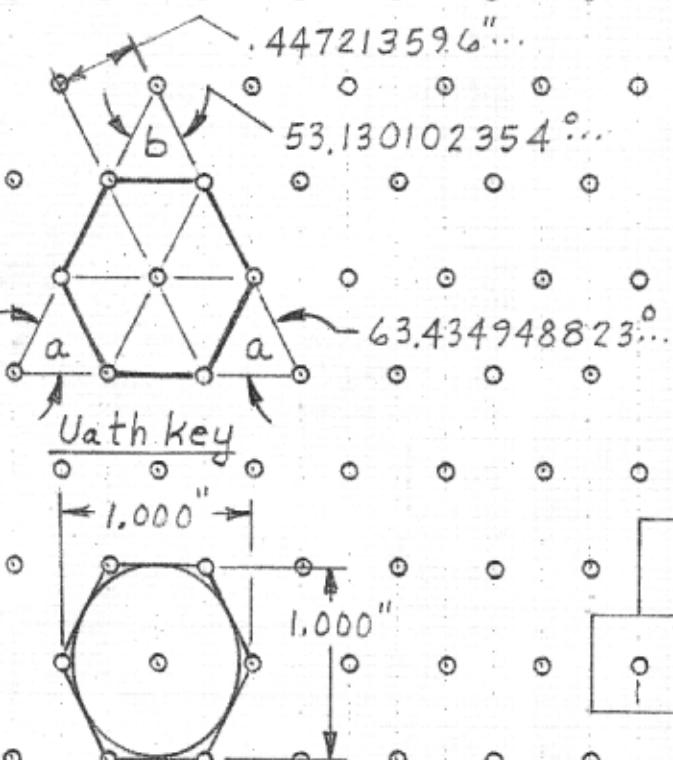
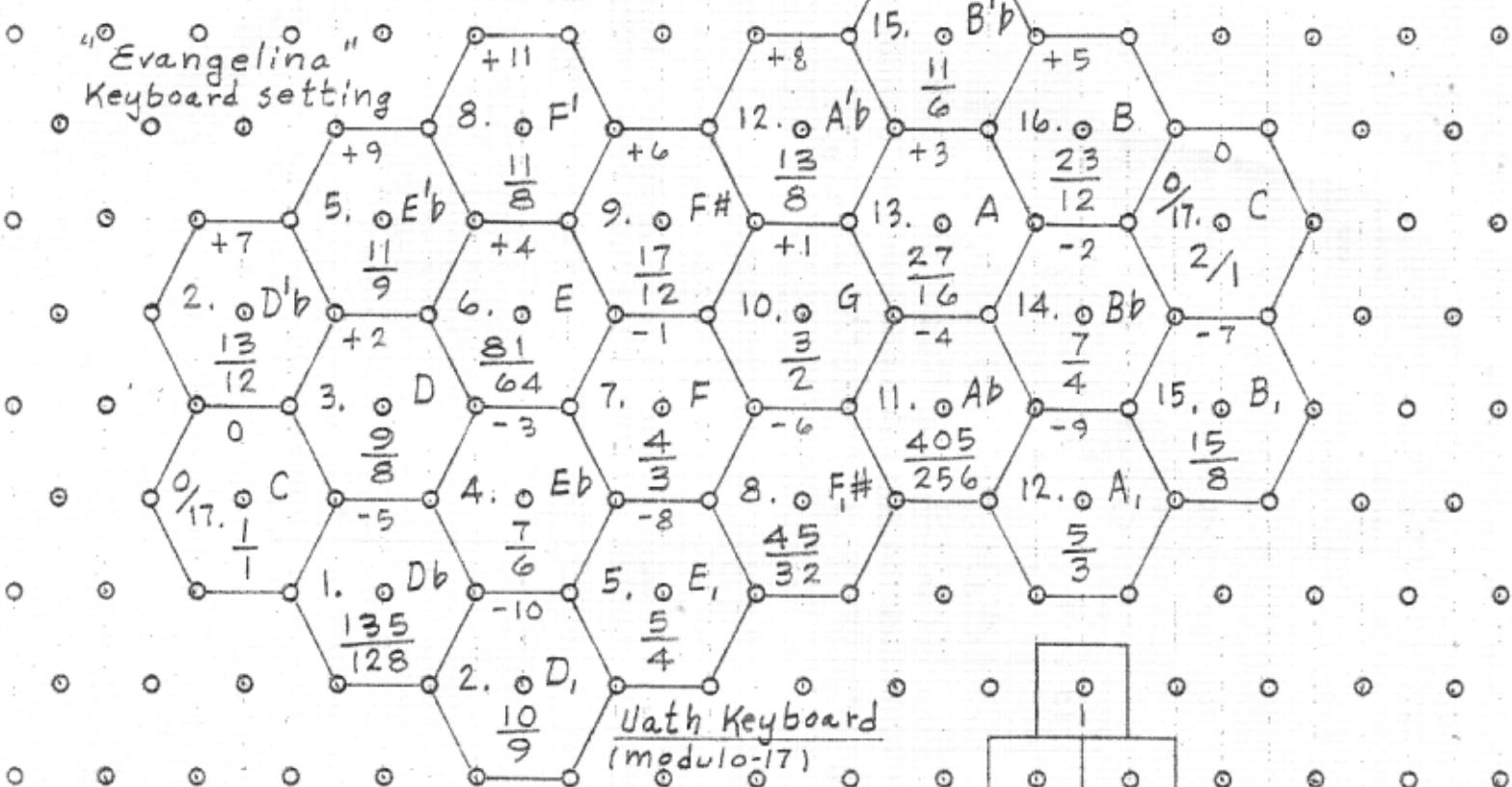


Matrix; with Pingala's Meru Prastara, and Uath Gral. Keyboard
 © 2001 by Ervin M. Wilson, all proprietary rights reserved. 25 Sep 01
 E.W.



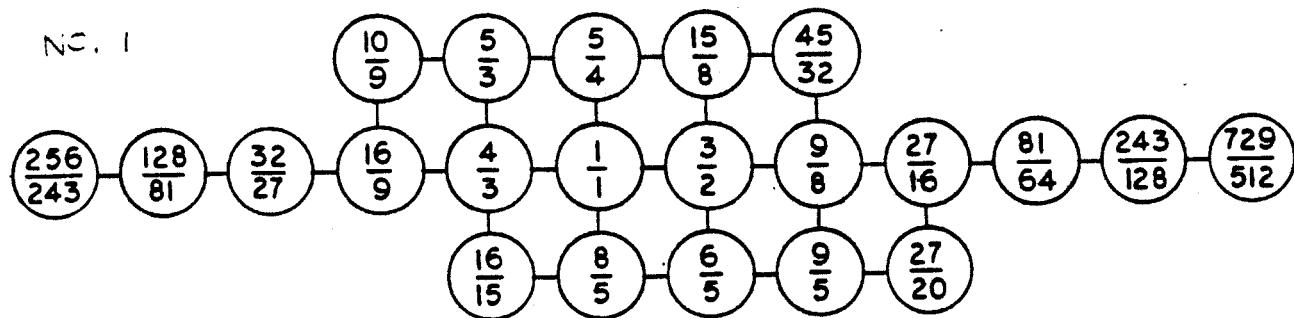
Inscribed 60° Ellipse

(Meru prastara)

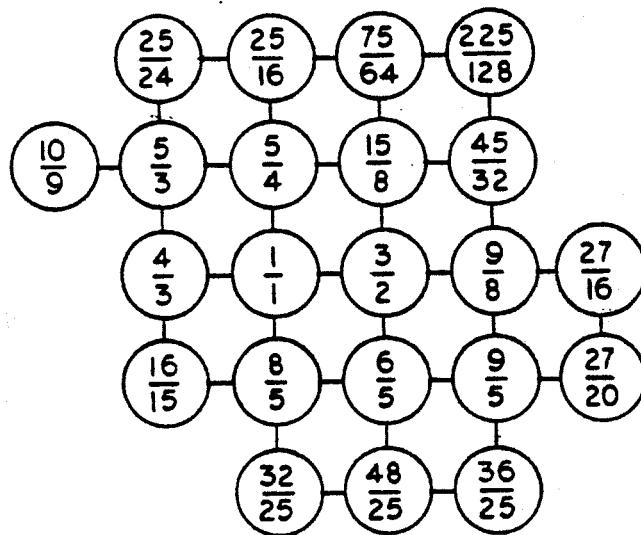
So-called Pascal's Triangle

Ref: "On the use of Series in Hindu mathematics" by A.N. Singh,
 OSIRIS, Vol 1 (January 1936) pp. 623-624.

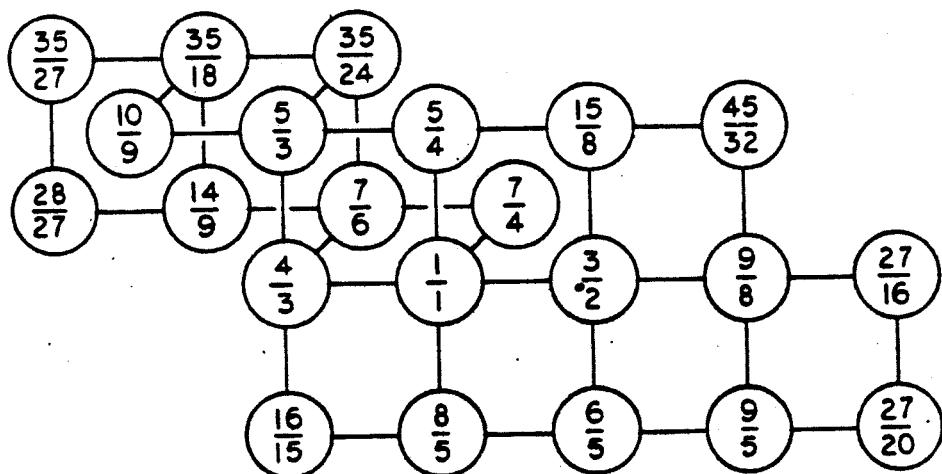
NO. 1



NO. 2



NO. 3

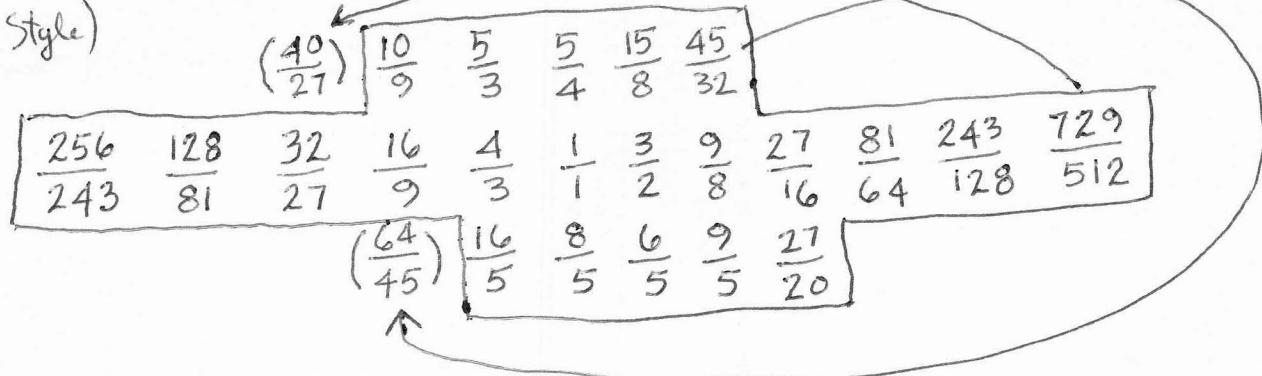


22-TONE CONSTANT SCALE STRUCTURE

PRE-ISSUE BY ERV WILSON 20 SEP 1967
ALL RIGHTS RESERVED. PERMISSION TO REPRODUCE ALL OR ANY
PART MUST BE SECURED FROM AUTHOR IN WRITING.

5-limit 22-Tone System of Sutis

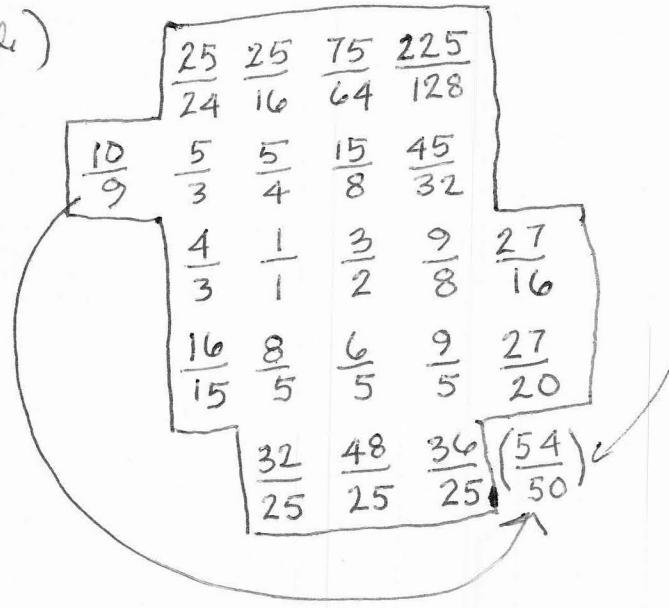
(Indian Style)



Hindu inflections
must occur simultaneously

5-limit 22-Tone System, Wilson

(European Style)

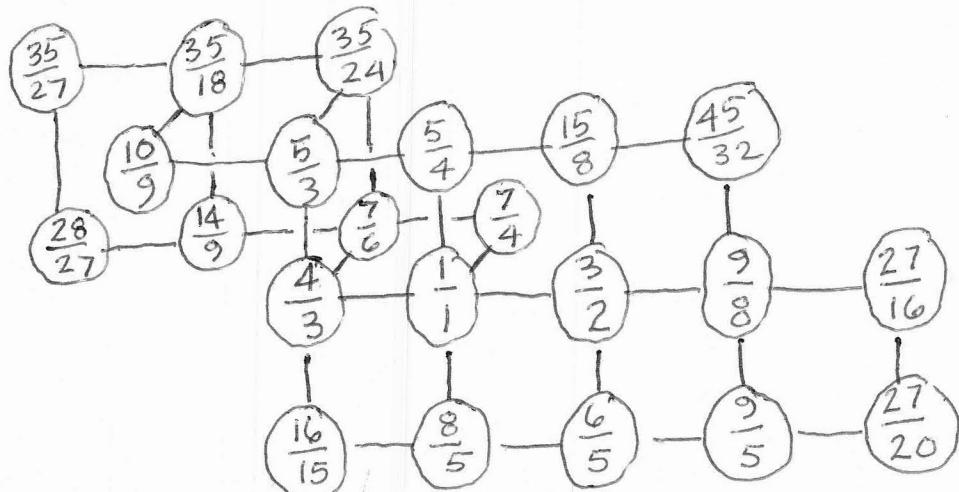


Tho this inflection looks neat on paper, creating 3 interlocked duodenies, is for Practical, and Aesthetic reasons of a melodic nature not as desireable as the $\frac{10}{9}$.

Letter to John Chalmers from E. Wilson
Aug 3, 1965

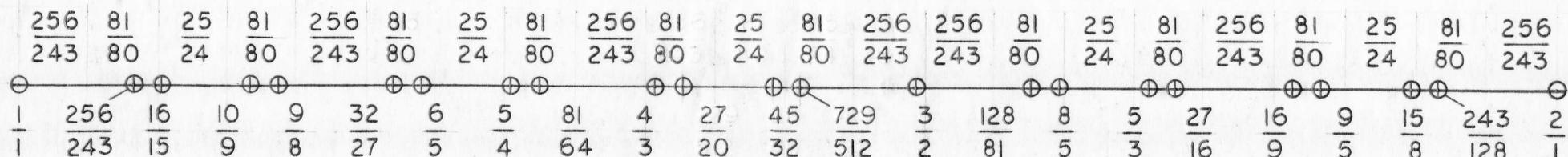
7-limit 22-Tone System, Wilson

(Greek Style)

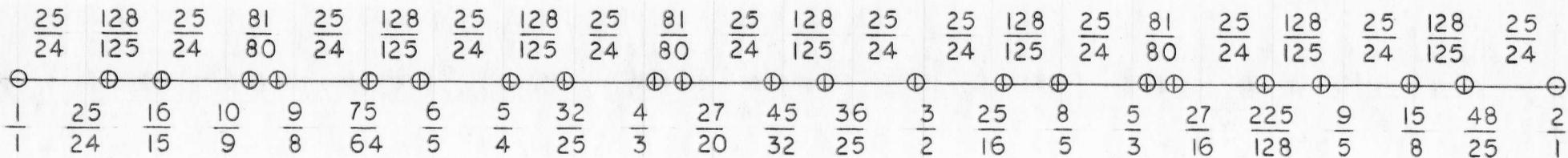


These 3 systems have 15 tones in common and 7 variable tones. The 7 variables of the 7-limit system are in diatonic relation to the $\frac{10}{9}$, and give rise to a series of enharmonic permutations.

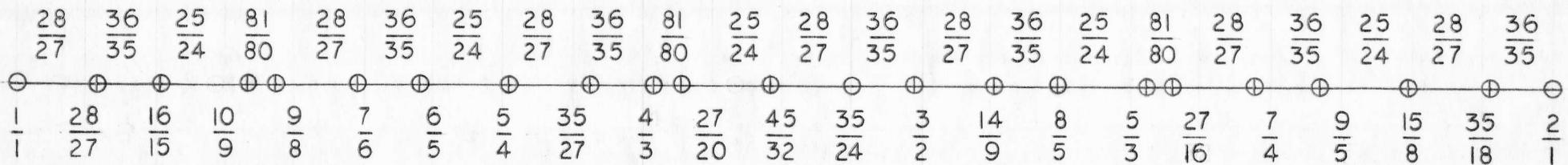
NO. 1



NO. 2.



NO. 3.



5-limit 22-tone System of Stutis

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
256	81	25	81	256	81	25	81	256	81	25	81	256	81	25	81	256	81	25	81	25	81	256	
243	80	24	80	243	80	24	80	243	80	24	80	243	80	24	80	243	80	24	80	24	80	243	
0	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	0	
1	256	16	10	9	32	6	5	81	4	27	45	729	3	128	8	5	27	16	15	9	15	243	2
1	243	15	9	8	27	5	4	64	3	20	32	512	2	81	5	3	16	9	5	8	128	1	

5-limit 22-tone System, Wilson

25	128	25	81	25	128	25	128	25	81	25	128	25	128	25	128	25	81	25	128	25	128	25	
24	125	24	80	24	125	24	125	24	80	24	125	24	125	24	125	24	80	24	125	24	125	24	
0	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	0	
1	25	16	10	9	75	6	5	5	32	4	27	45	36	3	25	8	5	27	225	9	15	48	2
1	24	15	9	8	64	5	4	25	3	20	32	52	25	2	16	5	3	16	128	5	8	25	1

7-limit 22-tone System, Wilson

28	36	25	81	28	36	25	28	36	81	25	28	36	28	36	25	81	28	36	25	28	36	25	
27	35	24	80	27	35	24	27	35	80	24	27	35	27	35	24	80	27	35	24	27	35	24	
0	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	0	
1	28	16	10	9	7	6	5	5	35	4	27	45	35	3	14	8	5	3	27	7	9	15	2
1	27	15	9	8	6	5	4	27	20	32	35	32	24	2	9	5	3	27	4	5	8	18	1

The above systems are completely constant; each given interval is invariably ~~interposed by~~ composed of a constant number of degrees. Reversely, there is a high degree of stability; each given number of degrees produces a relatively high proportion of identical intervals. (total stability is possible only in equal temperament of the scale.)

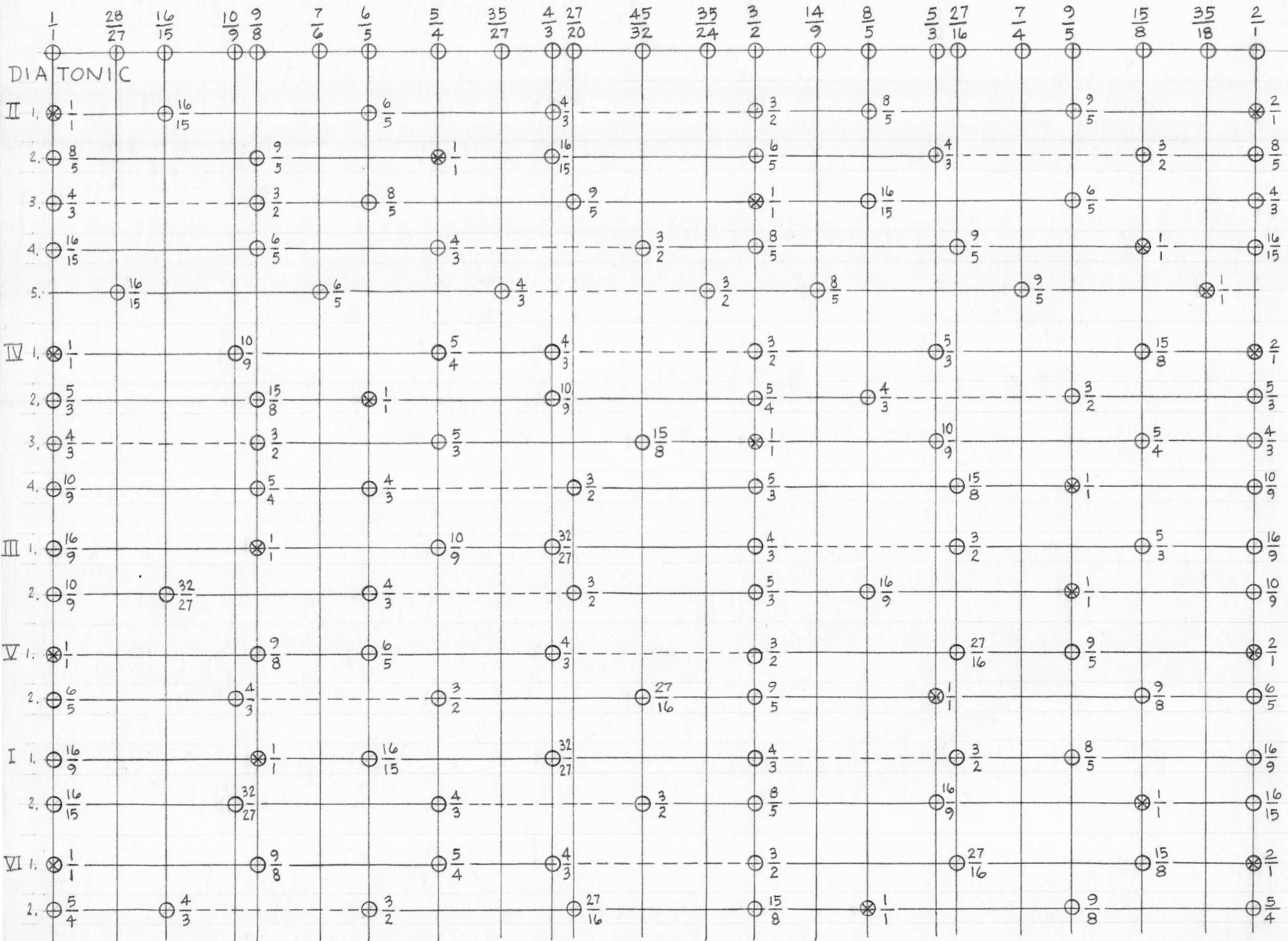
From the above species one might postulate a series of $\frac{9}{8}$ Pentachords and their permutations.

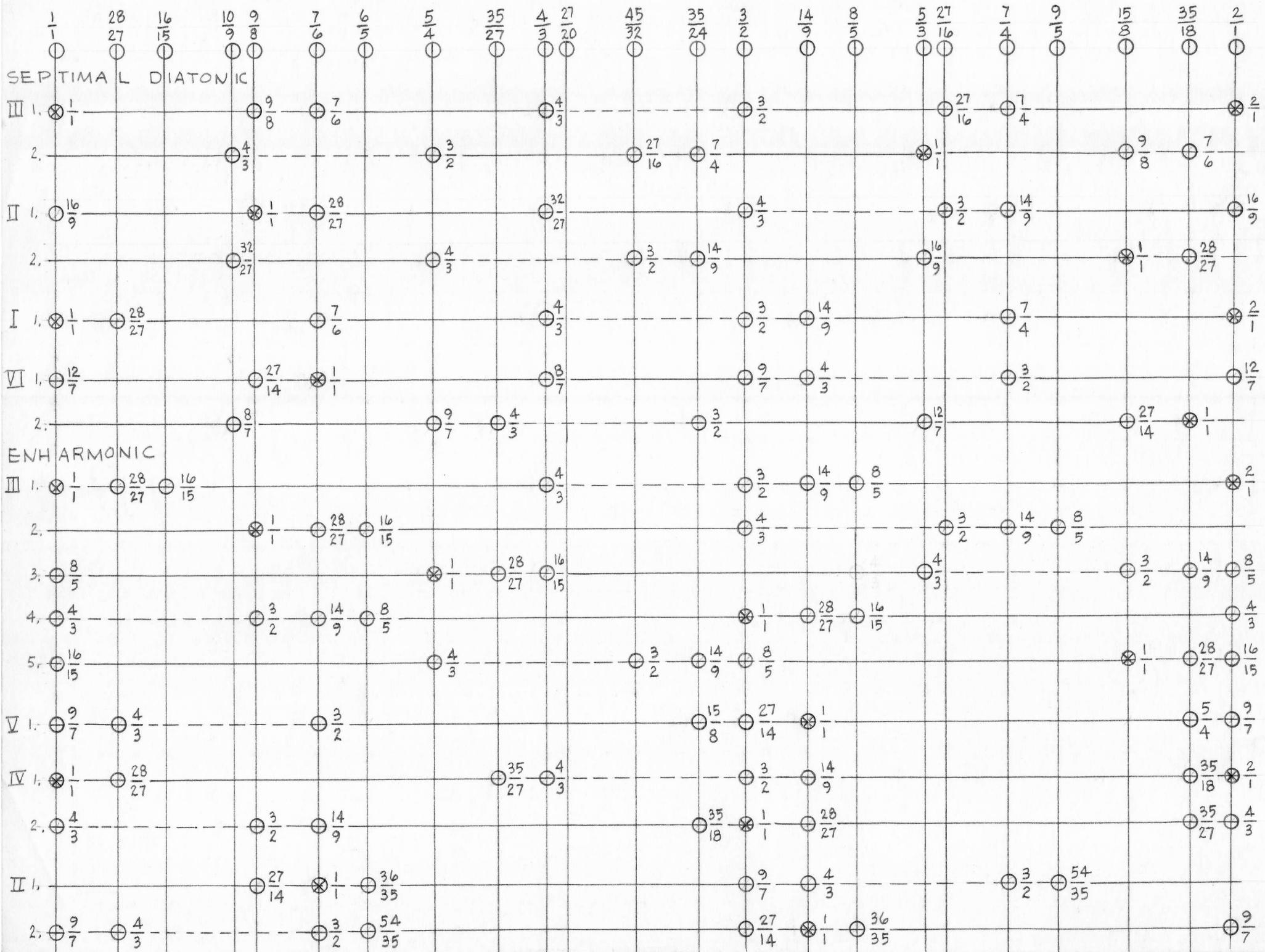
I.E. $\frac{1}{1} \frac{256}{243} \frac{16}{15} \frac{10}{9} \frac{9}{8}$ and permutations

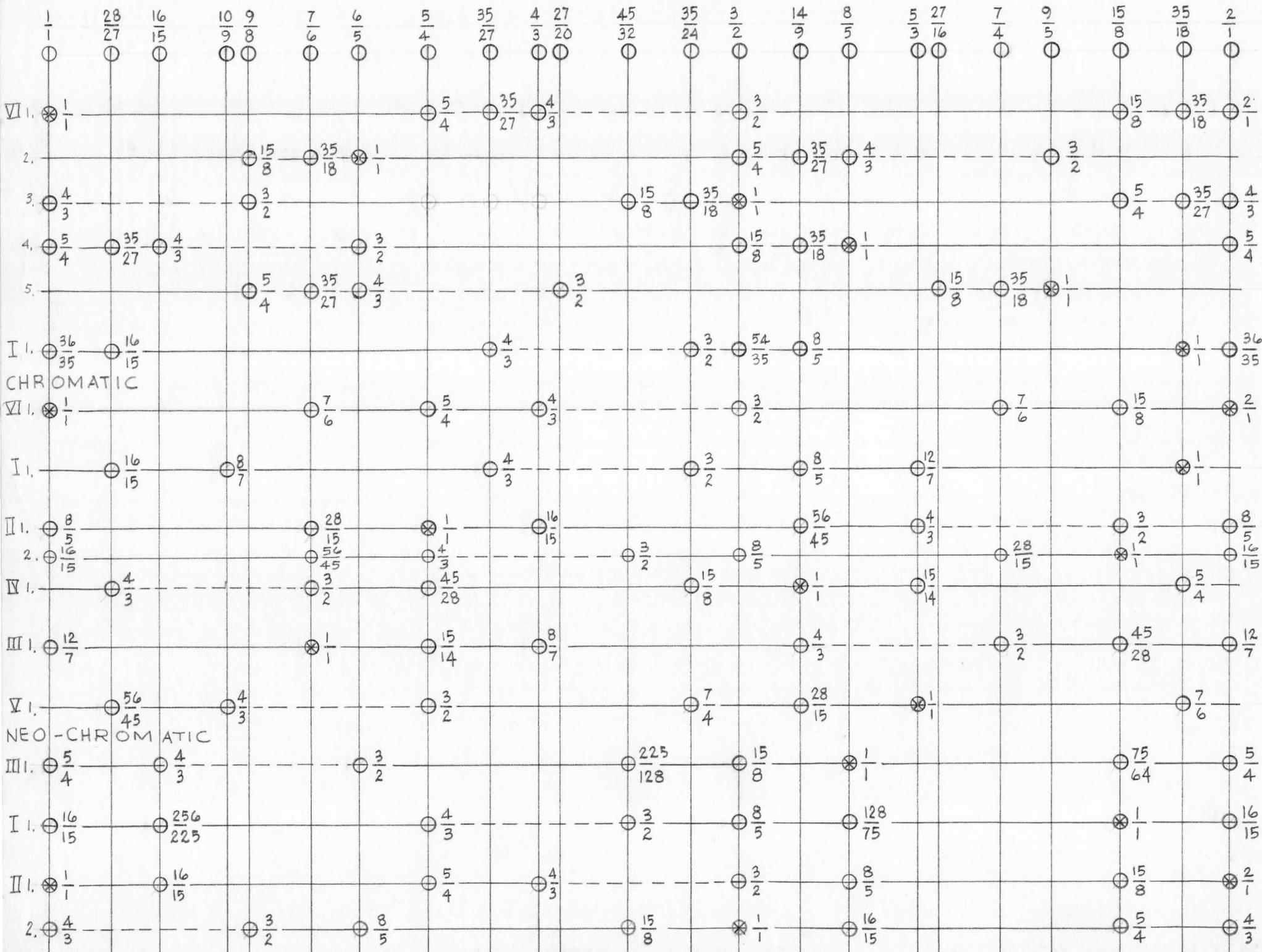
$\frac{1}{1} \frac{25}{24} \frac{16}{15} \frac{10}{9} \frac{9}{8}$ "

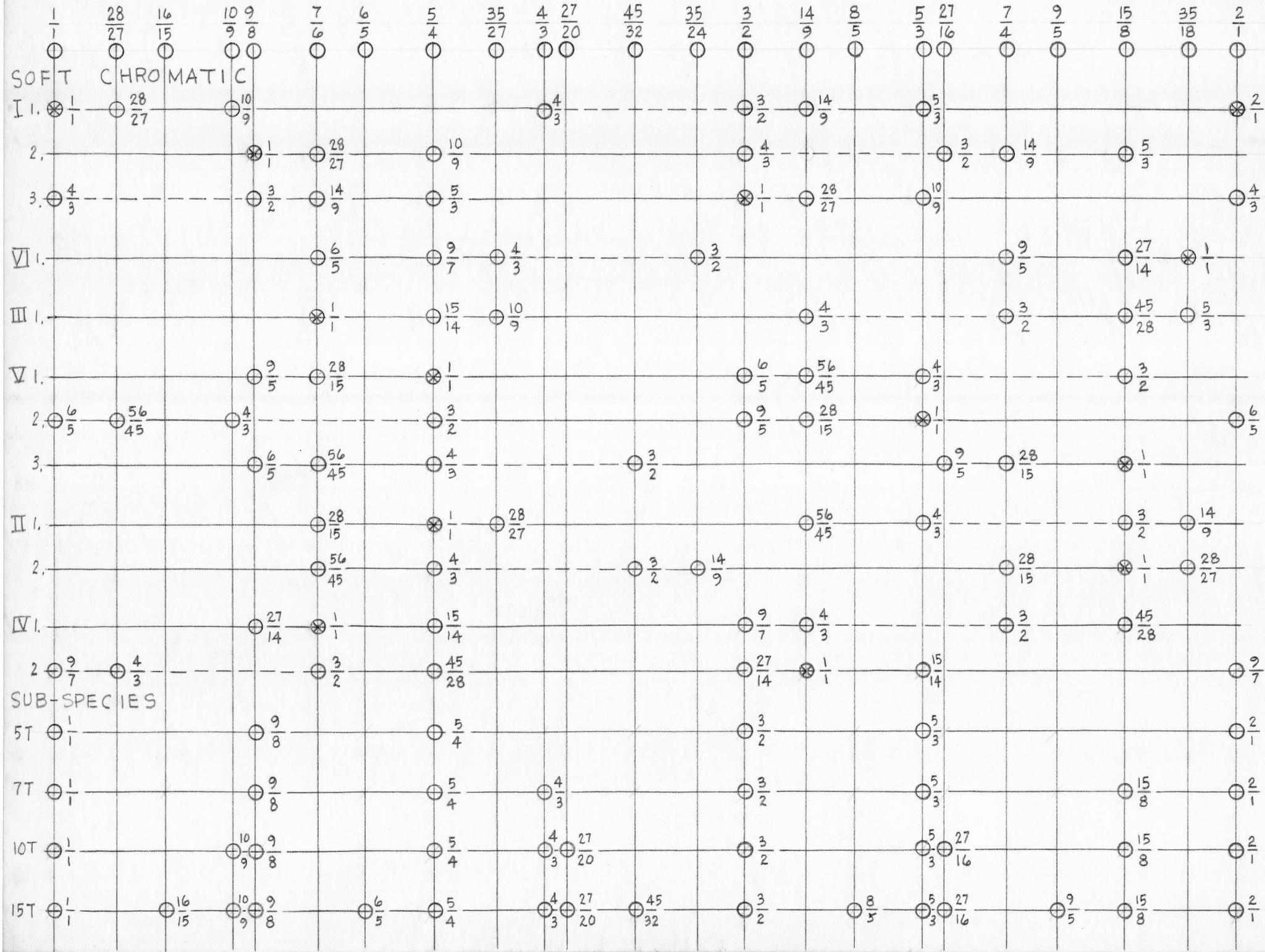
$\frac{1}{1} \frac{28}{27} \frac{16}{15} \frac{10}{9} \frac{9}{8}$ 7.

as the $\frac{9}{8}$ is invariably constructed of one or another of the permutations of the respective base Pentachord.





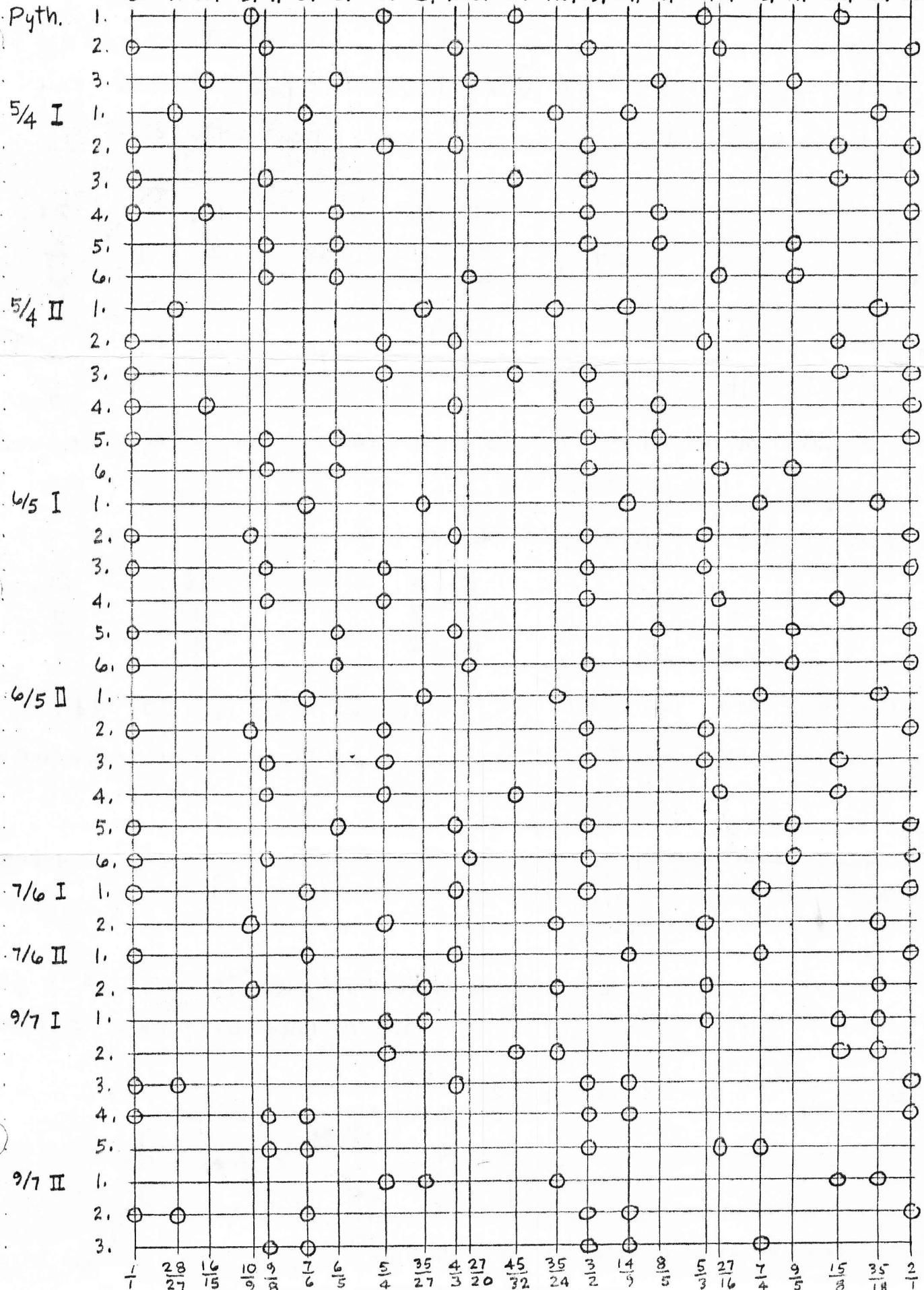




Tri-chordal, Pentatonic scales on the Transceleste & Marimba. Issued Erv Wilson 1973

F $\gamma \gamma^4$ G-G $\alpha\alpha^4$ A- A $\beta\beta^4$ B- B C $\delta\delta^4$ D-D $\epsilon\epsilon^4$ E- E F

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22.



Tri-chordal, Pentatonic scales on the Transceleste & Marimba. Issued Erv Wilson 1973

F Y Y+ G- G α α+ A- A β β+ B- B C δ δ+ D- D E E+ E- E F

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22.

9/8-32/27

5/4 I

5/4-16/15

5/4 II

16/15-5/4

٦/٥ ١

10/9-6/5

6/5 III

6/5- 10/9

7/6 I

7/6-8/7

7/6 III

8/7-7/6

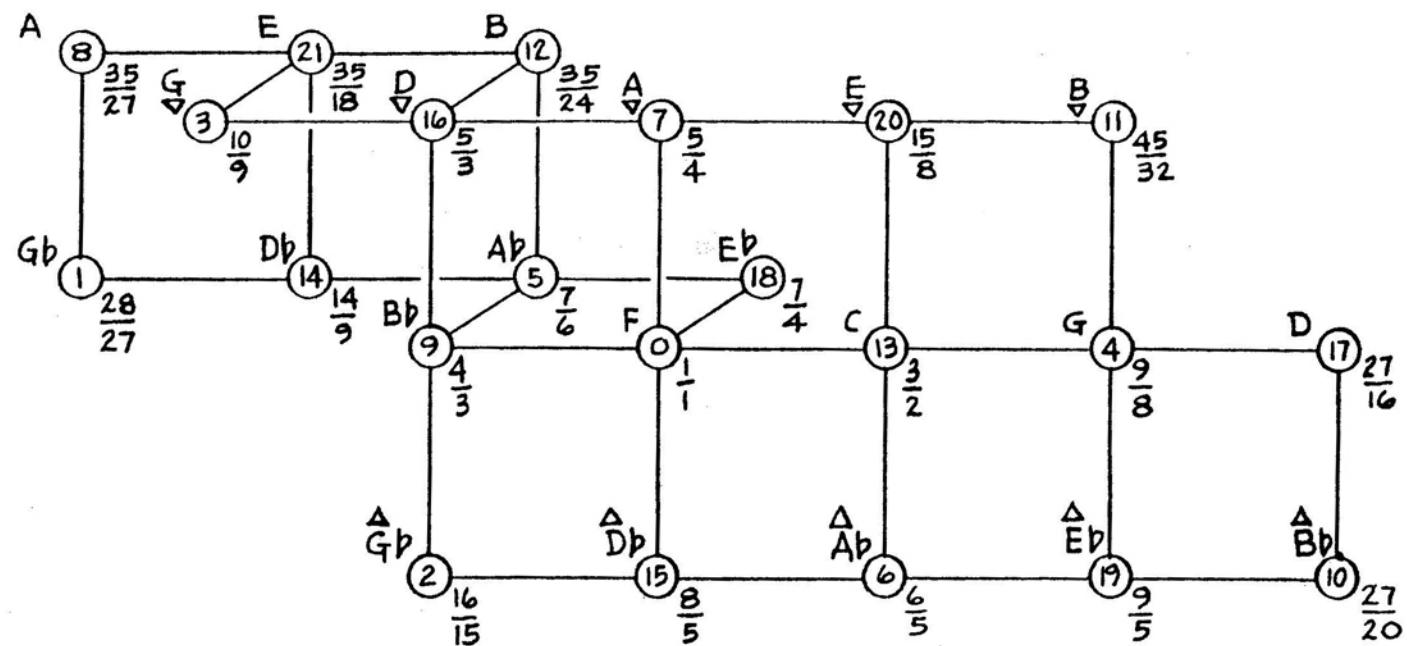
9/7 I

26/27-9/7

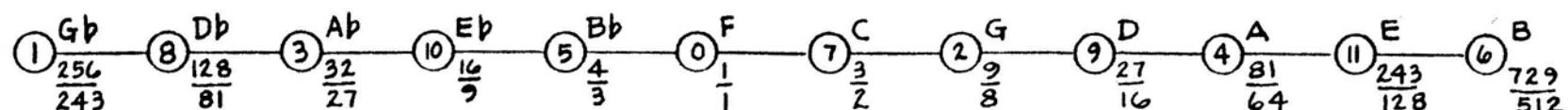
9/7 II

9/7- 28/27





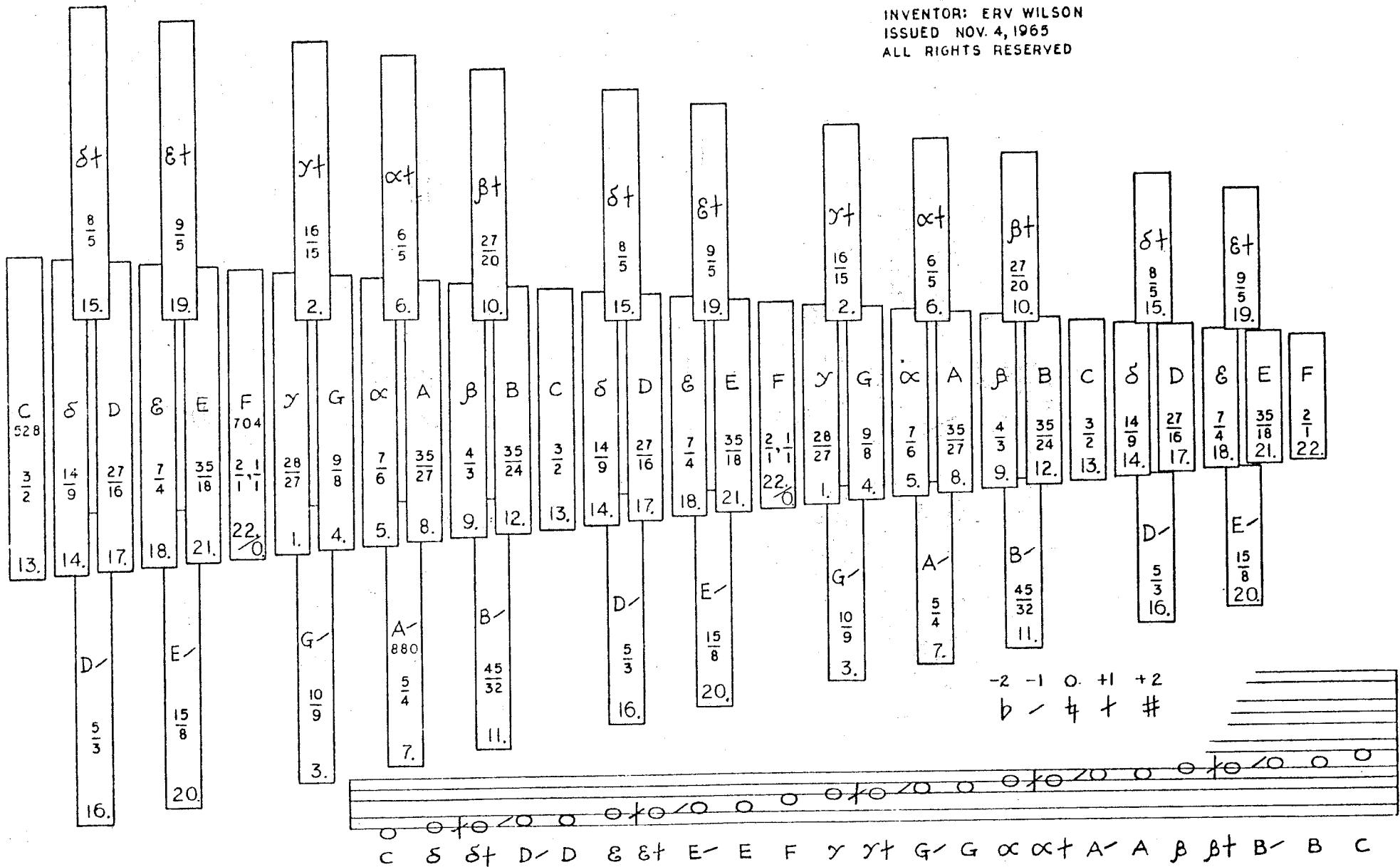
0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
F	G _b	G	A _b	A	B _b	B	C	D _b	D	E _b	E	F
	$\frac{256}{243}$				$\frac{729}{512}$			$\frac{128}{81}$		$\frac{16}{9}$		$\frac{243}{128}$
0.	$\frac{28}{27}$	$\frac{16}{15}$	$\frac{10}{9}$	$\frac{9}{8}$	$\frac{7}{6}$	$\frac{6}{5}$	$\frac{5}{4}$	$\frac{35}{27}$	$\frac{4}{3}$	$\frac{27}{20}$	$\frac{45}{32}$	$\frac{2}{1}$



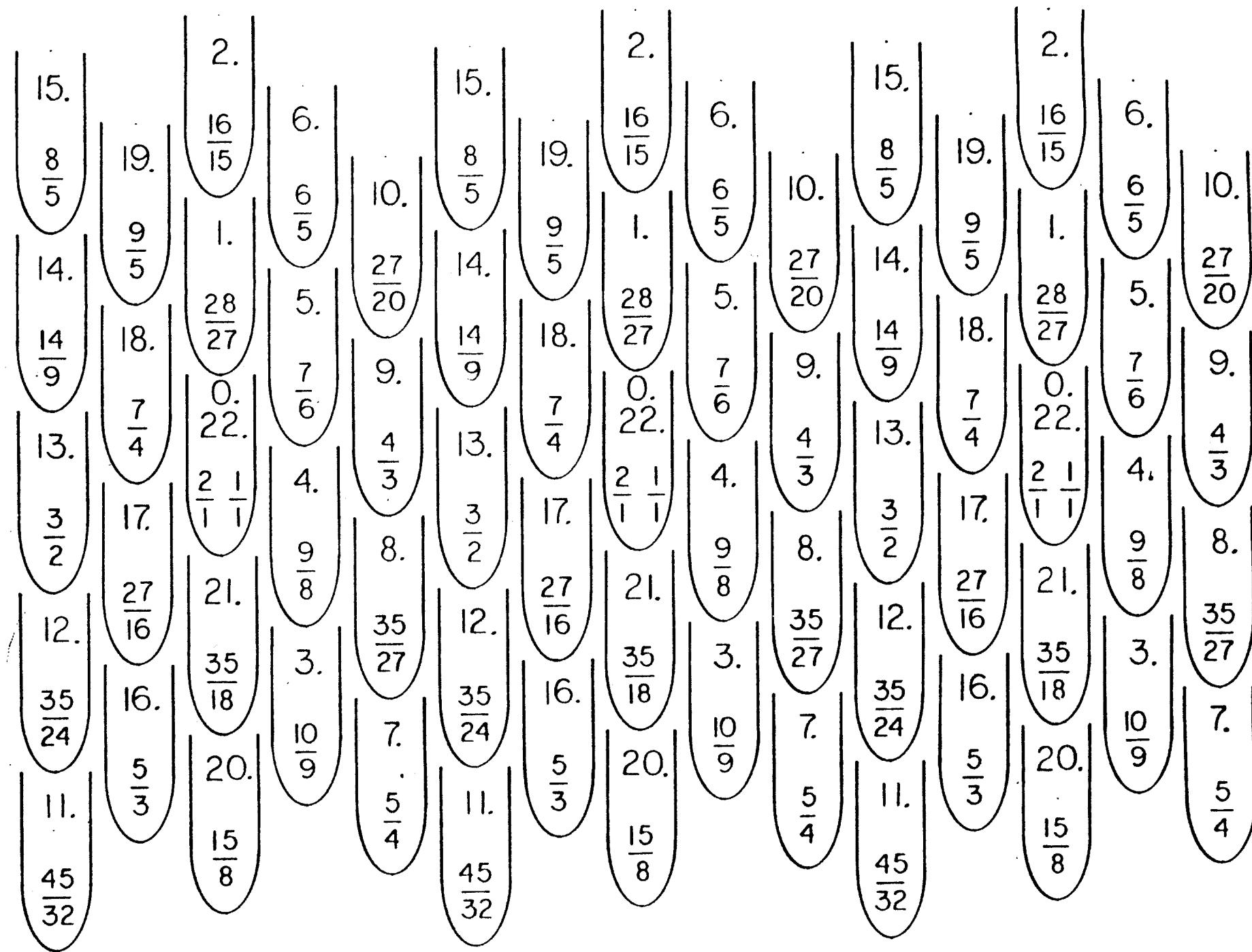
12-Tone Pythagorean & 22-Tone Scale Comparison
Issued by Erv Wilson 1 Nov 67

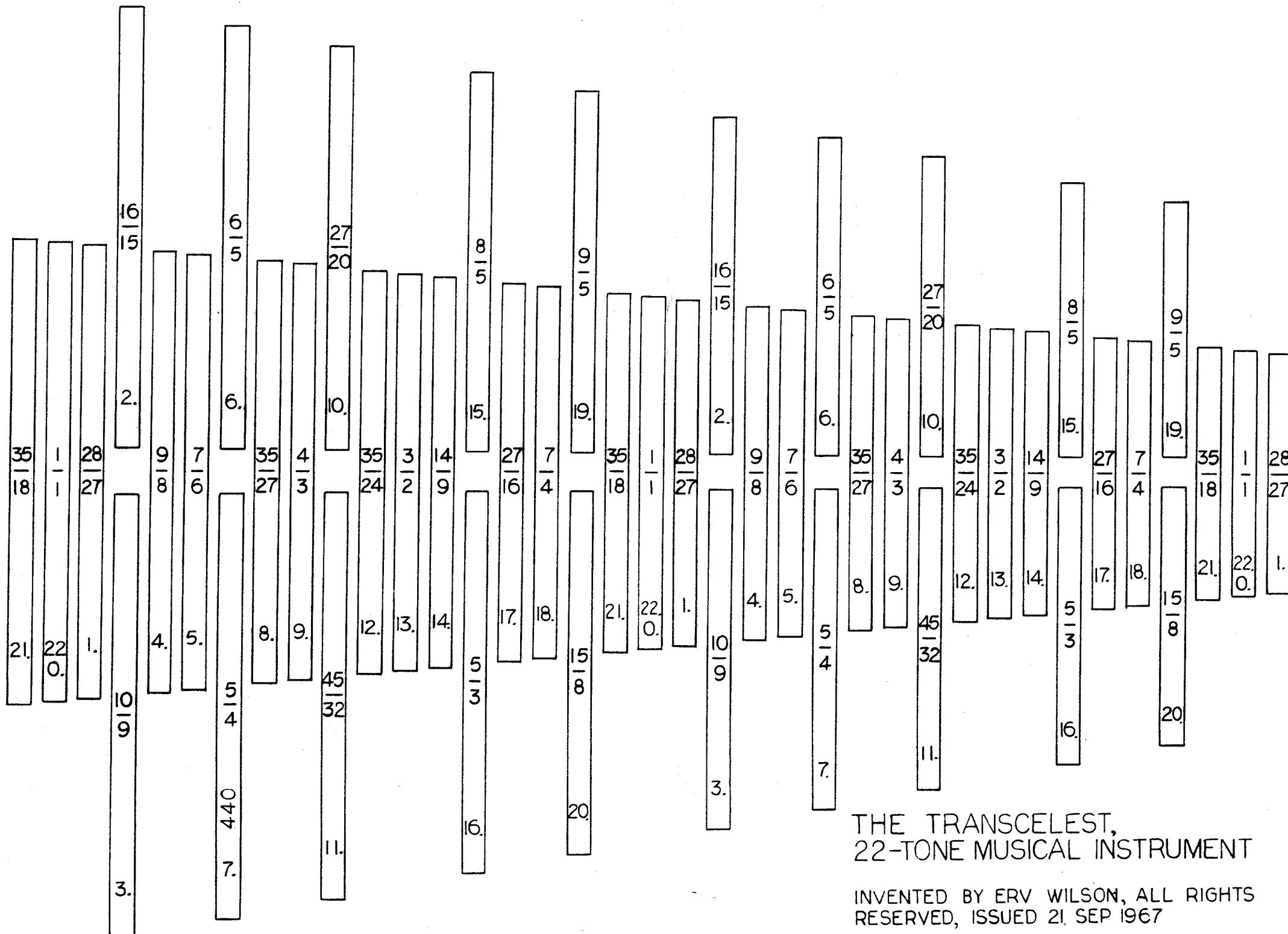
22-TONE MUSICAL INSTRUMENT

INVENTOR: ERV WILSON
ISSUED NOV. 4, 1965
ALL RIGHTS RESERVED



WILSON'S GENERALIZED KEYBOARD
 (IN APPLICATION TO A 22-TONE SCALE)
 PAT. PNDG., ALL RIGHTS RESERVED
 ISSUED BY ERV WILSON, JULY 1966





THE TRANSCELEST,
22-TONE MUSICAL INSTRUMENT

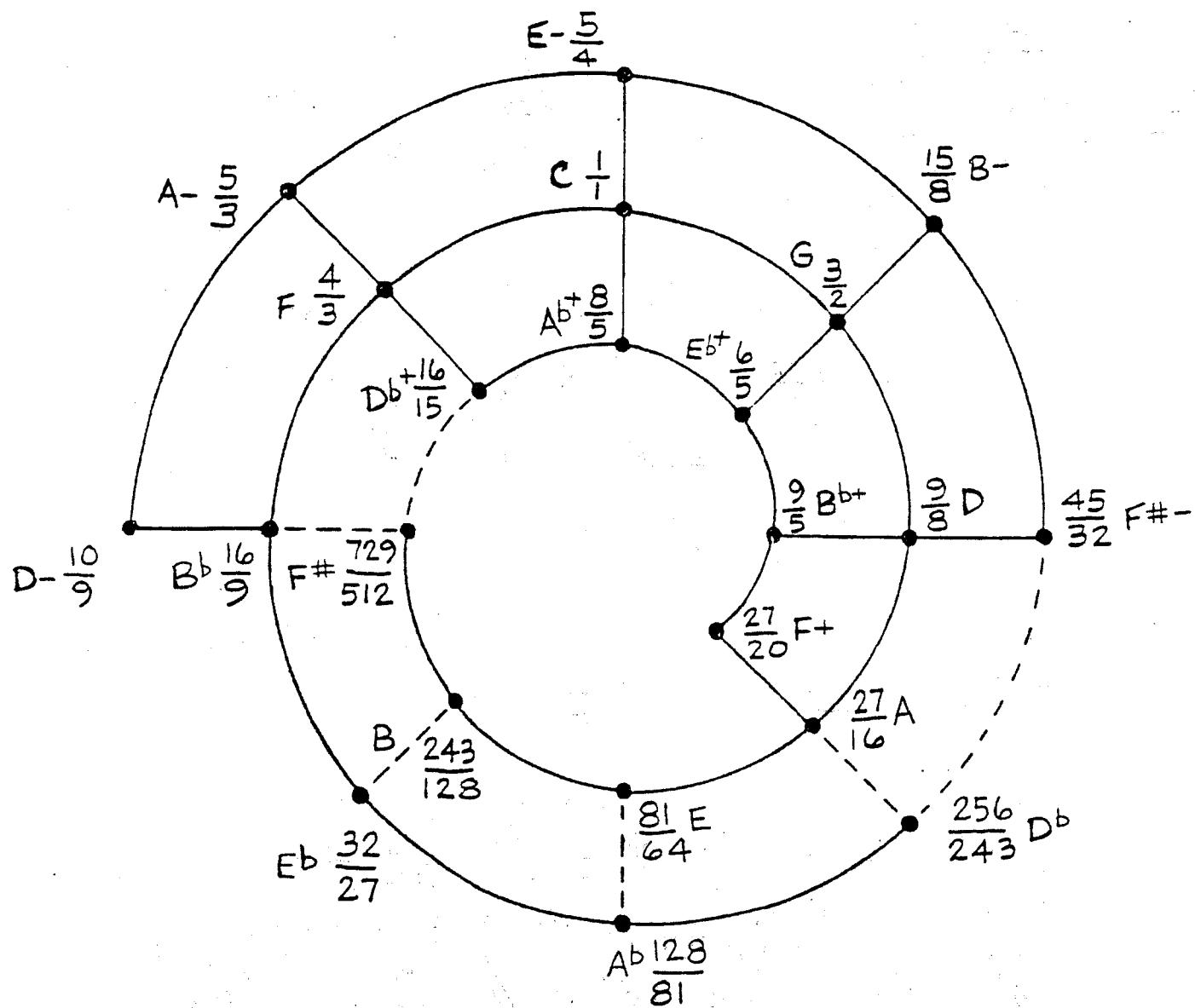
INVENTED BY ERV WILSON, ALL RIGHTS
RESERVED, ISSUED 21 SEP 1967

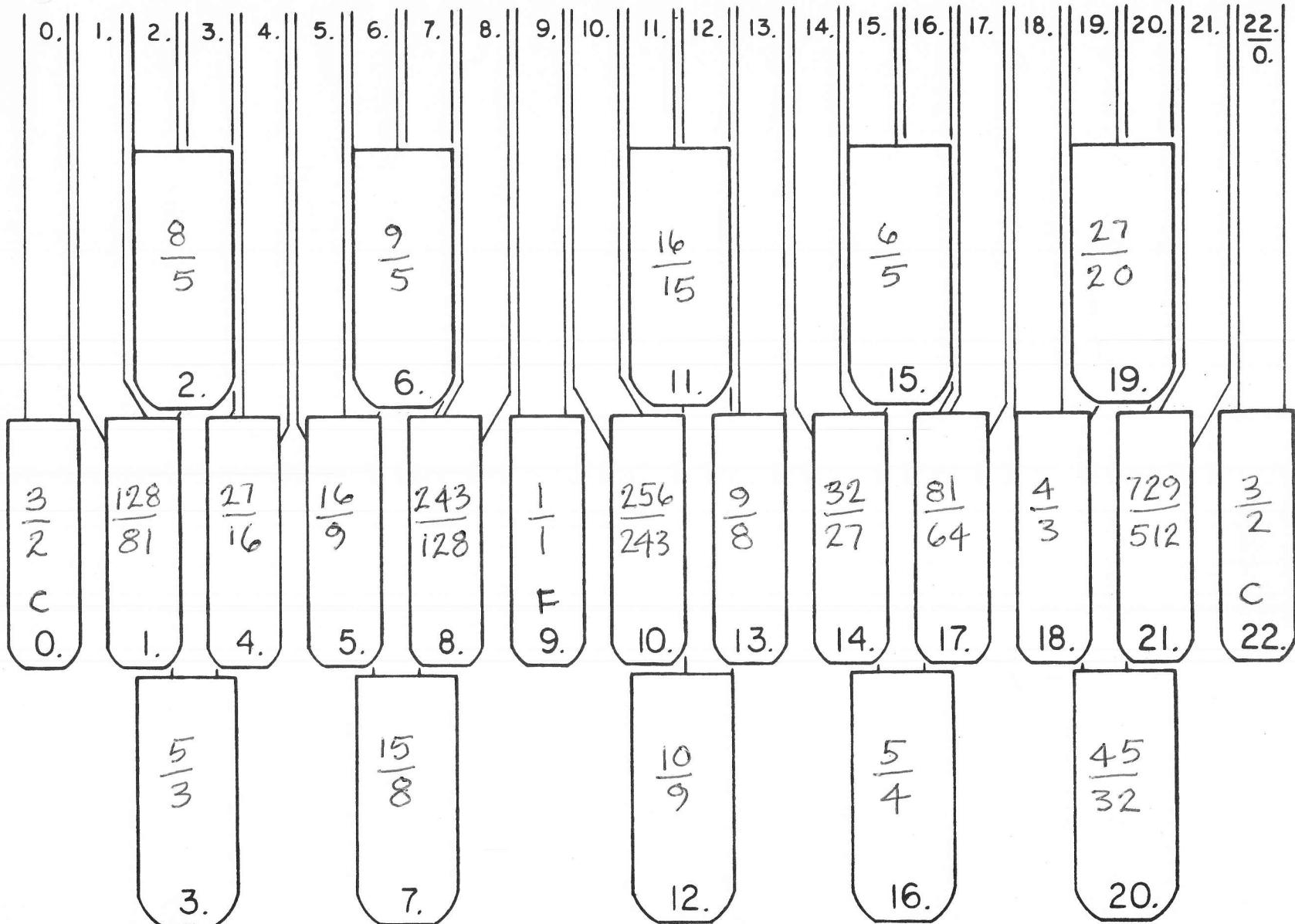
S'RU T I S O N G
with classic tuning
design © 1978 by Eng. Wilson

0. C 264 -1 Sa	1. D 278.12 Re	2. E 256 Re	3. D 293.33 915 Re	4. C 297 810 Re	5. B 312.89 213 Ga	6. A 330 415 Ga	7. G 330 415 Ga	8. F# 334.12 618 Ga	9. F 352 414 Ma	10. E 371.25 4532 Ma	11. D# 375.89 512 Ma	12. D 396 396 Pa	13. C 417.18 8128 Dha	14. B 440 440 Ab+	15. A 445.50 6127 Dha	16. G 469.33 61627 Z	17. E 475.20 51912+ Z	18. C 501.19 528 -125 Ni	19. B 528 528 -125 Ni	20. A 495 6015 Z 528 -125 Ni
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22-Tone Spiral Lattice

© Eric Wilson 1982



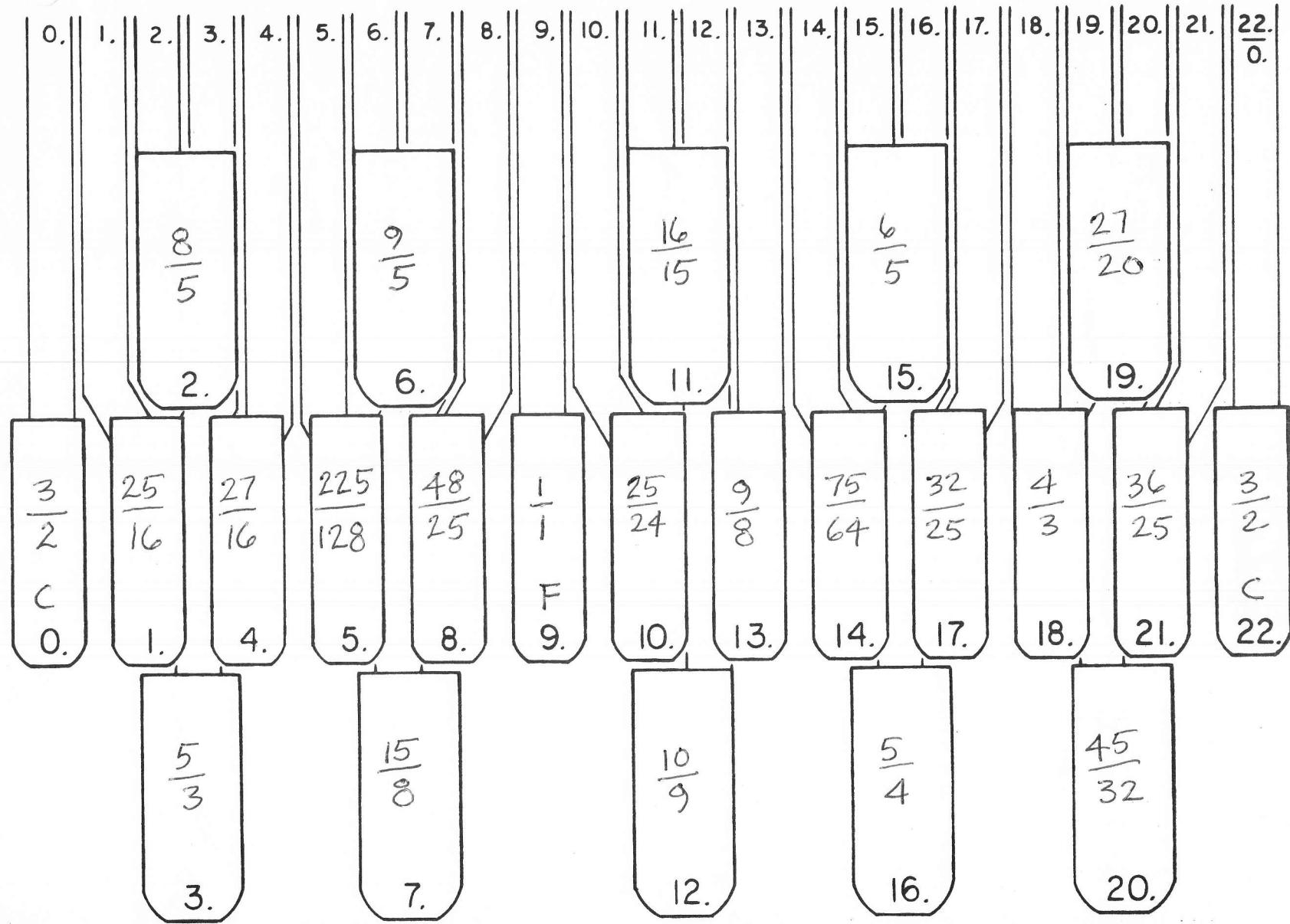


5-limit 22-Tone System of Srotis

Letter to John Chalmers from Err Wilson Aug 3, 65

THE 5-12-5, 22-TONE KEYBOARD

INVENTOR: ERVIN M. WILSON
ISSUED JULY 28, 1965

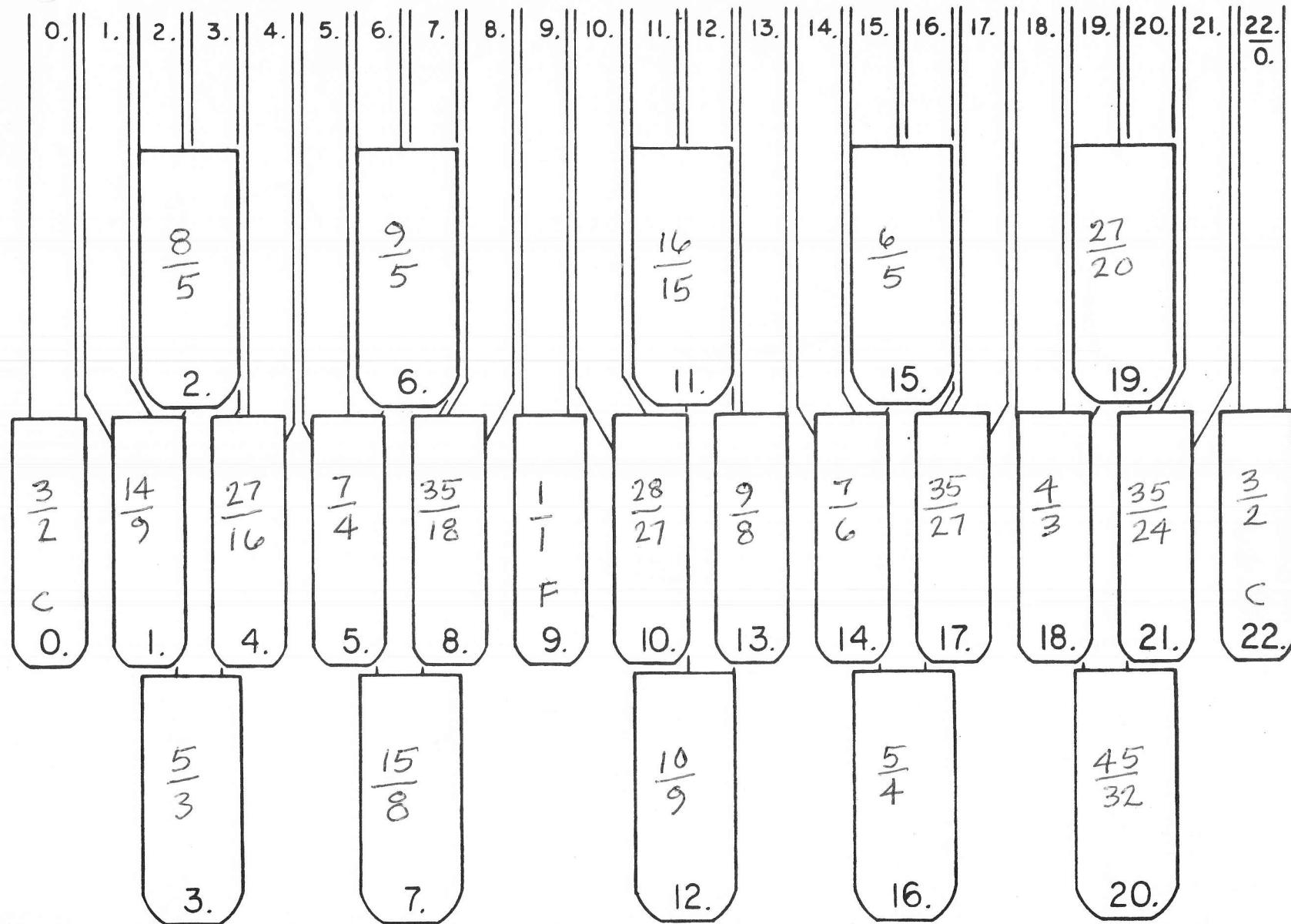


5-limit 22-Tone System, Wilson

Letter to John Chalmers from Erv Wilson Aug 3, 65

THE 5-12-5, 22-TONE KEYBOARD

INVENTOR: ERVIN M. WILSON
ISSUED JULY 28, 1965

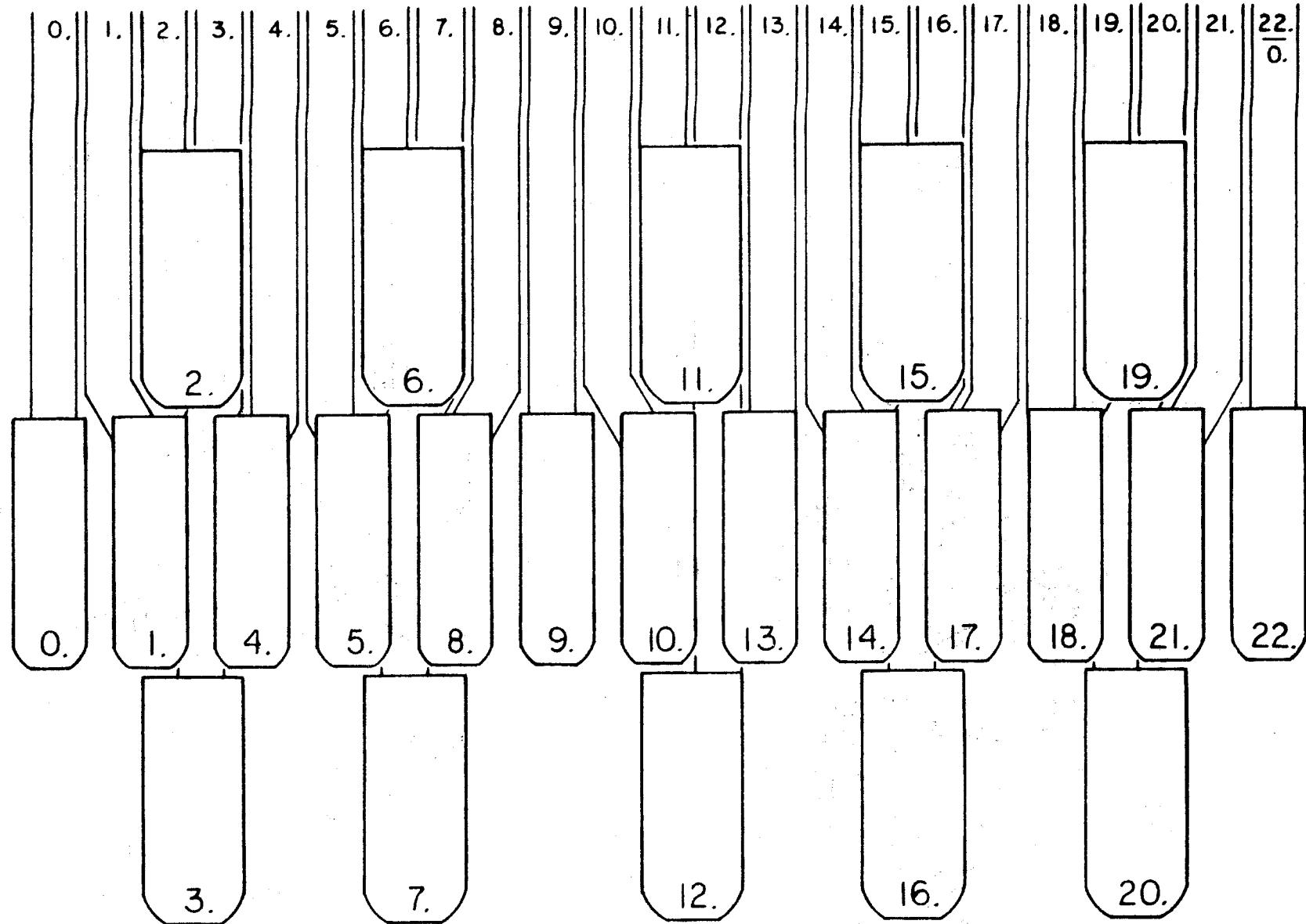


7-limit 22-tone Just System, Wilson

Letter to John Chalmers from Erv Wilson Aug 3, 65

THE 5-12-5, 22-TONE KEYBOARD

INVENTOR: ERVIN M. WILSON
ISSUED JULY 28, 1965

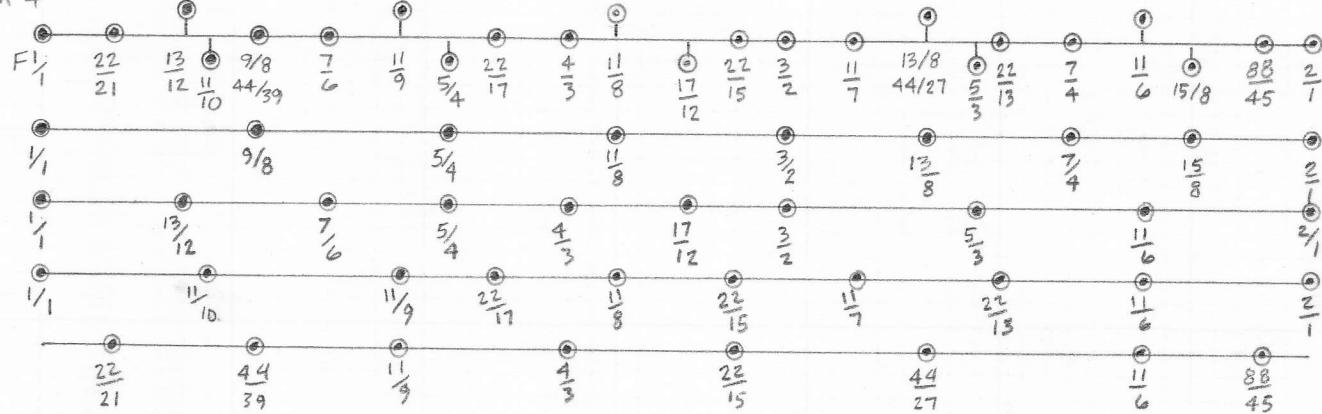


THE 5-12-5, 22-TONE KEYBOARD

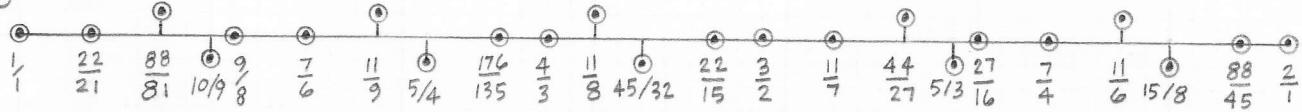
INVENTOR: ERVIN M. WILSON
ISSUED JULY 28, 1965

4 Scales
© 1982 by Erv Wilson

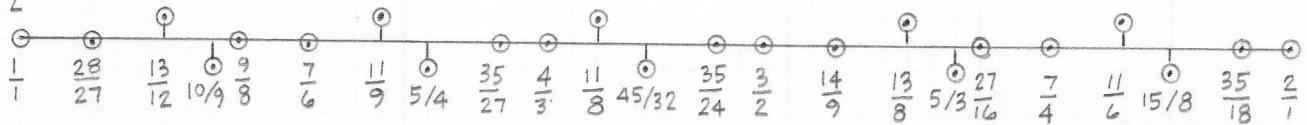
Wilson 4



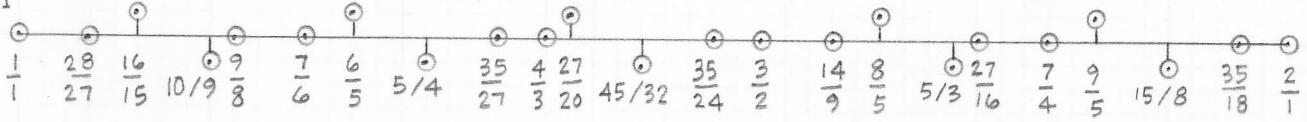
Wilson 3



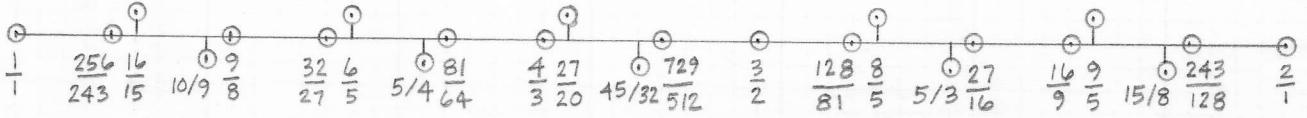
Wilson 2

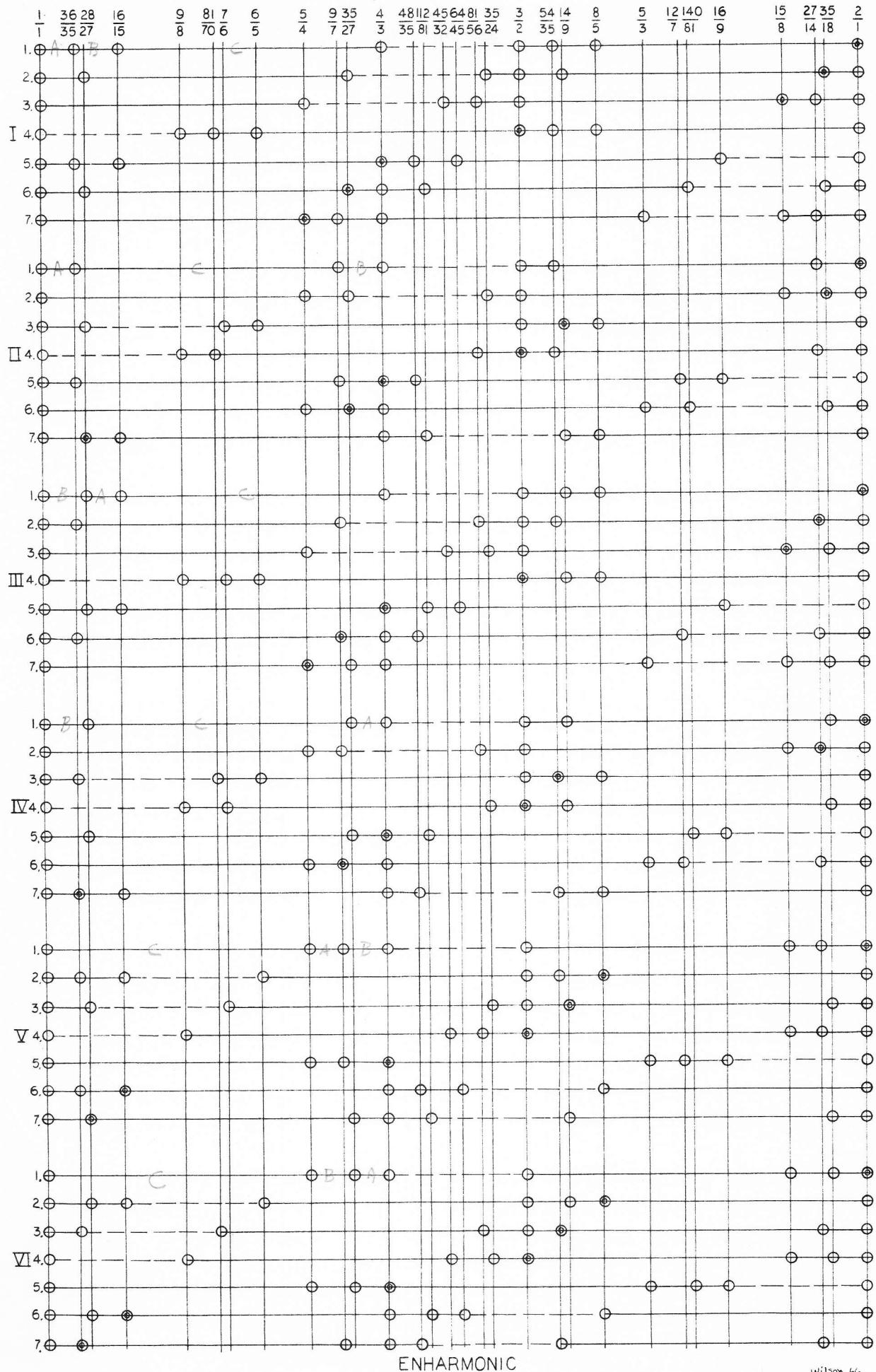


Wilson 1



India

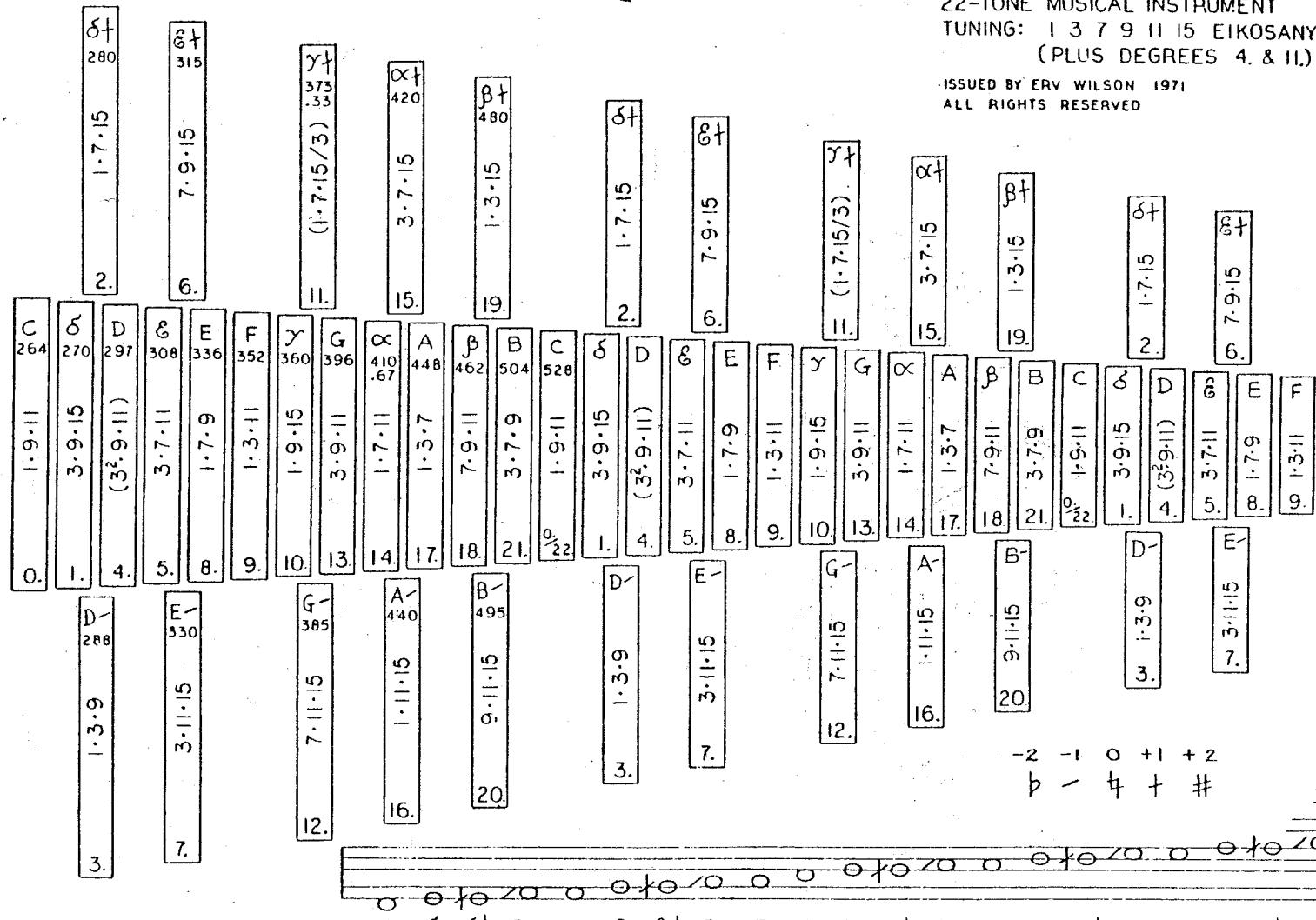


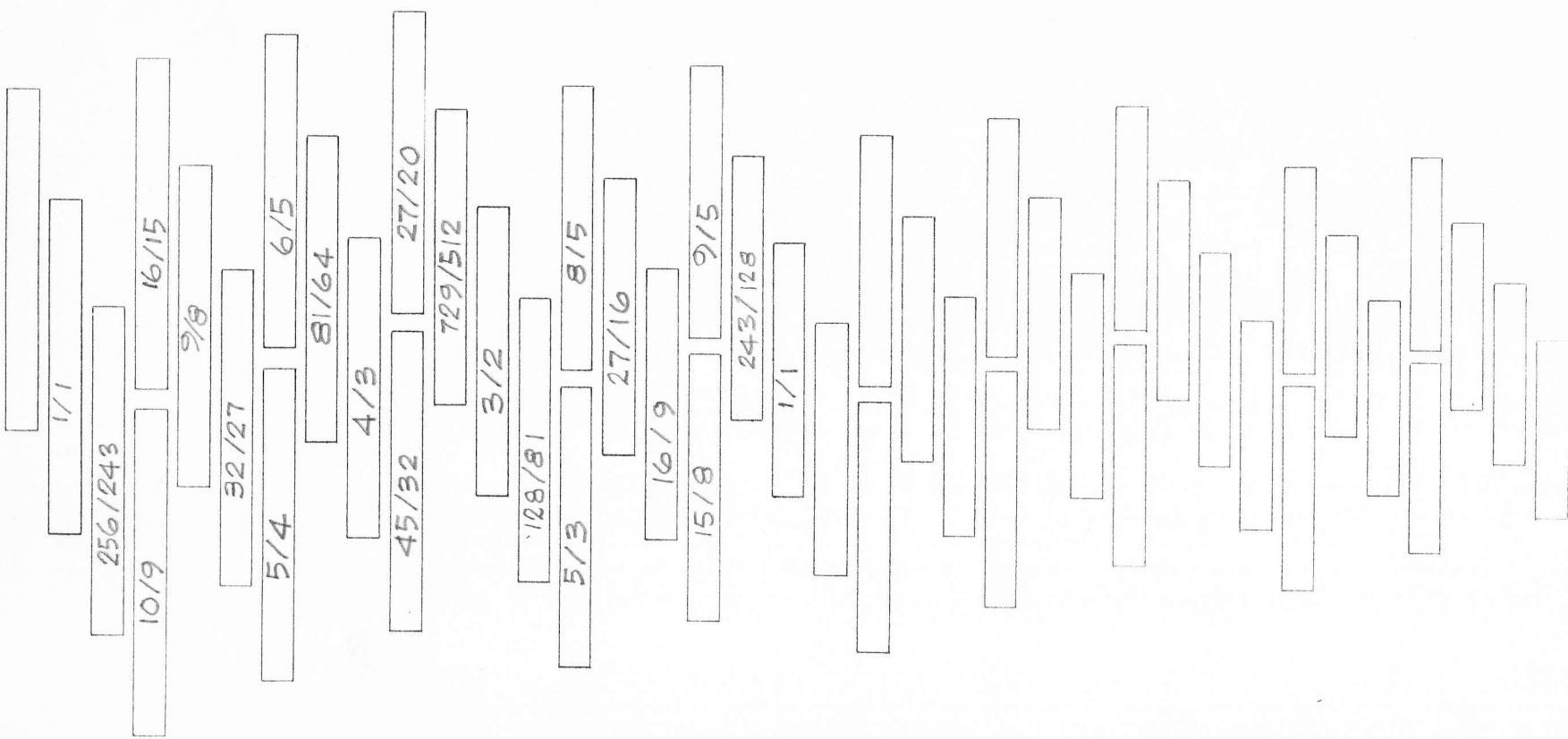


also see Delessandro Like a Hurricane
by Erv Wilson in XENHARMONIKON XII
1989

Please refer to fig. 11
for a better mounting

Figure 10





* Evangelina Notes

- * The Evangelina Tuning commemorates the work done by Evangelina Villegas and Surinder K. Vasal with quality Protein Maize in Mexico Africa, India, Japan & China

1. Japanese melody "Sakura"

(5-12-5) 22-Tone Tubulung, "Evangelina" Tuning

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Ref; Some Basic Patterns Underlying Genus 12 # 17, E.Wilson 1980

$$\begin{array}{r} 0 \\ -5 \\ +7 \end{array} = \boxed{\begin{array}{l} 310 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \end{array}}$$

$$- = \boxed{\begin{array}{l} 264 \\ 135 \\ 128 \end{array}}$$

$$278.44 = \boxed{\begin{array}{l} 293.33 \\ 297 \\ 308 \\ 310 \\ 330 \\ 334.12 \\ 352 \\ 363 \end{array}}$$

$$+2 = \boxed{\begin{array}{l} 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \end{array}}$$

$$-3 = \boxed{\begin{array}{l} 6 \\ 11 \\ 16 \\ 21 \\ 26 \\ 31 \\ 36 \\ 41 \\ 46 \\ 51 \\ 56 \\ 61 \\ 66 \\ 71 \\ 76 \\ 81 \\ 86 \\ 91 \\ 96 \\ 101 \\ 106 \\ 111 \\ 116 \\ 121 \\ 126 \\ 131 \\ 136 \\ 141 \\ 146 \\ 151 \\ 156 \\ 161 \\ 166 \\ 171 \\ 176 \\ 181 \\ 186 \\ 191 \\ 196 \\ 201 \\ 206 \end{array}}$$

$$= \boxed{\begin{array}{l} 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \end{array}}$$

$$+4 = \boxed{\begin{array}{l} 6 \\ 11 \\ 16 \\ 21 \\ 26 \\ 31 \\ 36 \\ 41 \\ 46 \\ 51 \\ 56 \\ 61 \\ 66 \\ 71 \\ 76 \\ 81 \\ 86 \\ 91 \\ 96 \\ 101 \\ 106 \\ 111 \\ 116 \\ 121 \\ 126 \\ 131 \\ 136 \\ 141 \\ 146 \\ 151 \\ 156 \\ 161 \\ 166 \\ 171 \\ 176 \\ 181 \\ 186 \\ 191 \\ 196 \\ 201 \\ 206 \end{array}}$$

$$-1 = \boxed{\begin{array}{l} 9 \\ 14 \\ 19 \\ 24 \\ 29 \\ 34 \\ 39 \\ 44 \\ 49 \\ 54 \\ 59 \\ 64 \\ 69 \\ 74 \\ 79 \\ 84 \\ 89 \\ 94 \\ 99 \\ 104 \\ 109 \\ 114 \\ 119 \\ 124 \\ 129 \\ 134 \\ 139 \\ 144 \\ 149 \\ 154 \\ 159 \\ 164 \\ 169 \\ 174 \\ 179 \\ 184 \\ 189 \\ 194 \\ 199 \\ 204 \\ 209 \end{array}}$$

$$= \boxed{\begin{array}{l} 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \end{array}}$$

$$+6 = \boxed{\begin{array}{l} 12 \\ 17 \\ 22 \\ 27 \\ 32 \\ 37 \\ 42 \\ 47 \\ 52 \\ 57 \\ 62 \\ 67 \\ 72 \\ 77 \\ 82 \\ 87 \\ 92 \\ 97 \\ 102 \\ 107 \\ 112 \\ 117 \\ 122 \\ 127 \\ 132 \\ 137 \\ 142 \\ 147 \\ 152 \\ 157 \\ 162 \\ 167 \\ 172 \\ 177 \\ 182 \\ 187 \\ 192 \\ 197 \\ 202 \\ 207 \end{array}}$$

$$-1 = \boxed{\begin{array}{l} 13 \\ 18 \\ 23 \\ 28 \\ 33 \\ 38 \\ 43 \\ 48 \\ 53 \\ 58 \\ 63 \\ 68 \\ 73 \\ 78 \\ 83 \\ 88 \\ 93 \\ 98 \\ 103 \\ 108 \\ 113 \\ 118 \\ 123 \\ 128 \\ 133 \\ 138 \\ 143 \\ 148 \\ 153 \\ 158 \\ 163 \\ 168 \\ 173 \\ 178 \\ 183 \\ 188 \\ 193 \\ 198 \\ 203 \\ 208 \end{array}}$$

$$-4 = \boxed{\begin{array}{l} 14 \\ 19 \\ 24 \\ 29 \\ 34 \\ 39 \\ 44 \\ 49 \\ 54 \\ 59 \\ 64 \\ 69 \\ 74 \\ 79 \\ 84 \\ 89 \\ 94 \\ 99 \\ 104 \\ 109 \\ 114 \\ 119 \\ 124 \\ 129 \\ 134 \\ 139 \\ 144 \\ 149 \\ 154 \\ 159 \\ 164 \\ 169 \\ 174 \\ 179 \\ 184 \\ 189 \\ 194 \\ 199 \\ 204 \\ 209 \end{array}}$$

$$+3 = \boxed{\begin{array}{l} 17 \\ 22 \\ 27 \\ 32 \\ 37 \\ 42 \\ 47 \\ 52 \\ 57 \\ 62 \\ 67 \\ 72 \\ 77 \\ 82 \\ 87 \\ 92 \\ 97 \\ 102 \\ 107 \\ 112 \\ 117 \\ 122 \\ 127 \\ 132 \\ 137 \\ 142 \\ 147 \\ 152 \\ 157 \\ 162 \\ 167 \\ 172 \\ 177 \\ 182 \\ 187 \\ 192 \\ 197 \\ 202 \\ 207 \end{array}}$$

$$-2 = \boxed{\begin{array}{l} 18 \\ 23 \\ 28 \\ 33 \\ 38 \\ 43 \\ 48 \\ 53 \\ 58 \\ 63 \\ 68 \\ 73 \\ 78 \\ 83 \\ 88 \\ 93 \\ 98 \\ 103 \\ 108 \\ 113 \\ 118 \\ 123 \\ 128 \\ 133 \\ 138 \\ 143 \\ 148 \\ 153 \\ 158 \\ 163 \\ 168 \\ 173 \\ 178 \\ 183 \\ 188 \\ 193 \\ 198 \\ 203 \\ 208 \end{array}}$$

$$+10 = \boxed{\begin{array}{l} 20 \\ 25 \\ 30 \\ 35 \\ 40 \\ 45 \\ 50 \\ 55 \\ 60 \\ 65 \\ 70 \\ 75 \\ 80 \\ 85 \\ 90 \\ 95 \\ 100 \\ 105 \\ 110 \\ 115 \\ 120 \\ 125 \\ 130 \\ 135 \\ 140 \\ 145 \\ 150 \\ 155 \\ 160 \\ 165 \\ 170 \\ 175 \\ 180 \\ 185 \\ 190 \\ 195 \\ 200 \\ 205 \end{array}}$$

$$-10 = \boxed{\begin{array}{l} 20 \\ 25 \\ 30 \\ 35 \\ 40 \\ 45 \\ 50 \\ 55 \\ 60 \\ 65 \\ 70 \\ 75 \\ 80 \\ 85 \\ 90 \\ 95 \\ 100 \\ 105 \\ 110 \\ 115 \\ 120 \\ 125 \\ 130 \\ 135 \\ 140 \\ 145 \\ 150 \\ 155 \\ 160 \\ 165 \\ 170 \\ 175 \\ 180 \\ 185 \\ 190 \\ 195 \\ 200 \\ 205 \end{array}}$$

$$\begin{array}{r} 0 \\ +5 \\ 21. \\ 22. \\ 528 \end{array}$$

(E-12-5) 22-Tone Tubulung, "Evangelina" Tuning

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Ref: Some Basic Patterns Underlying Genus 12 #17, E.Wilson 1980

$$\begin{array}{r} 22 \\ 0. \\ -5 \end{array} \quad \begin{array}{r} 8 \\ 18 \\ 12 \end{array} \quad \begin{array}{r} 264 \\ 135 \\ 278 \cdot 44 \end{array} \quad \begin{array}{r} -1 \\ 135 \\ 128 \end{array}$$

MAROJU

$$3. \quad \begin{array}{r} 293.33 \\ 1010 \end{array} \quad \begin{array}{r} 20 \\ 13 \end{array} \quad \begin{array}{r} 286 \\ 13 \end{array}$$

$$+2 \quad \begin{array}{r} 9 \\ 10 \end{array} \quad \begin{array}{r} 207 \\ 208 \end{array} \quad \begin{array}{r} 6 \\ 11 \end{array}$$

$$7. \quad \begin{array}{r} 330 \\ 10 \end{array} \quad \begin{array}{r} 15 \\ 23 \end{array} \quad \begin{array}{r} 22 \\ 12 \end{array}$$

$$+4 \quad \begin{array}{r} 14 \\ 23 \end{array} \quad \begin{array}{r} 334.12 \\ 352 \end{array} \quad \begin{array}{r} 6 \\ 10 \end{array}$$

$$+9 \quad \begin{array}{r} 15 \\ 7. \end{array} \quad \begin{array}{r} 16 \\ 9. \end{array} \quad \begin{array}{r} 11 \\ 10. \end{array}$$

$$+6 \quad \begin{array}{r} 25 \\ 17 \end{array} \quad \begin{array}{r} 374 \\ 374 \end{array} \quad \begin{array}{r} 17 \\ 12. \end{array}$$

$$+1 \quad \begin{array}{r} 18 \\ 18 \end{array} \quad \begin{array}{r} 396 \\ 396 \end{array} \quad \begin{array}{r} 18 \\ 13. \end{array}$$

$$-4 \quad \begin{array}{r} 19 \\ 19 \end{array} \quad \begin{array}{r} 417.66 \\ 417.66 \end{array} \quad \begin{array}{r} 19 \\ 14. \end{array}$$

$$+8 \quad \begin{array}{r} 20 \\ 16. \end{array} \quad \begin{array}{r} 440 \\ 440 \end{array} \quad \begin{array}{r} 15 \\ 15. \end{array}$$

$$+10 \quad \begin{array}{r} 22 \\ 19. \end{array} \quad \begin{array}{r} 445.5 \\ 462 \end{array} \quad \begin{array}{r} 22 \\ 21. \end{array}$$

$$+5 \quad \begin{array}{r} 24 \\ 23 \end{array} \quad \begin{array}{r} 501.19 \\ 501.19 \end{array} \quad \begin{array}{r} 24 \\ 23 \end{array}$$

$$-12 \quad \begin{array}{r} 16 \\ 19. \end{array} \quad \begin{array}{r} 484 \\ 484 \end{array} \quad \begin{array}{r} 16 \\ 16 \end{array}$$

$$+22 \quad \begin{array}{r} 0 \\ 0 \end{array} \quad \begin{array}{r} 528 \\ 528 \end{array} \quad \begin{array}{r} 0 \\ 0 \end{array}$$

colors added by k.grady 2/2014

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SAVE

2 17 9 7 5 3 23 3 13 7 11 4 13 19
1 9 5 4 3 5 15 2 9 5 8 3 10 15
1 8 4 3 2 3 8 1 4 2 3 1 3 4

Ref; Some Basic Patterns Underlying Genus 12 & 17, E.Wilson 1980

-1	264
0	22/0.
-5	278.44

IMAROL.eu

3.	293.33	610	2.	286
+7				

4.	297	0010
+2		

5.	308	1515
-3		

6.	330	4114
+9		

8.	334.12	610.
+4		

9.	352	413
-1		

← = 371.25 3145/2 610. 363 610 =

12.	374	17
+6		

13.	396	12
-1		

14.	417.66	1216/1215
(-4)		

15.	429	0015
+8		

17.	445.5	27/6
+3		

19.	484	0015
+5		

21.	501.19	243/28
22/0.	528	-1

0

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Stenodro
NLIS
on "Lucas" Triangle (From F)
352

10 13 17 23 30 40
16. 2. 12. 2. 7. 16.

Ref.: Some Basic Patterns Underlying Genus 12 # 17, E. Wilson 1980

-1	$\frac{135}{128}$
-5	278.44

INARO: E

3.	293.33	$\frac{10}{15}$	330	$\frac{10}{15}$	6	322.67
+7						

4.	297	$\frac{10}{15}$	308	$\frac{10}{15}$	6	334.12
+2						

5.	308	$\frac{10}{15}$	614	$\frac{10}{15}$	6	352
-3						

6.	330	$\frac{10}{15}$	6	322.67
+9				

7.	330	$\frac{10}{15}$	6	322.67
+7				

\leftarrow^+	=	371.25	$\frac{15}{12}$	10.
+4				

8.	352	$\frac{10}{15}$	6	363
-1				

9.	352	$\frac{10}{15}$	6	363
-1				

10.	363	$\frac{10}{15}$	6	363
-6				

11.	374	$\frac{10}{15}$	6	363
+6				

12.	374	$\frac{10}{15}$	6	363
-1				

13.	396	$\frac{10}{15}$	6	363
-1				

14.	417.66	$\frac{10}{15}$	6	363
-4				

15.	429	$\frac{10}{15}$	6	363
+3				

16.	440	$\frac{10}{15}$	6	363
+8				

17.	445.5	$\frac{10}{15}$	6	363
-2				

18.	462	$\frac{10}{15}$	6	363
-2				

19.	484	$\frac{10}{15}$	6	363
+10				

20.	495	$\frac{10}{15}$	6	363
+10				

21.	506	$\frac{10}{15}$	6	363
+5				

22.	528	$\frac{10}{15}$	6	363
0				

Ref; Some Basic Patterns Underlying Genus IR #17, E.Wilson 1980

$\begin{array}{r} 264 \\ \times 13 \\ \hline 792 \end{array}$	$\begin{array}{r} 135 \\ \times 12 \\ \hline 18 \end{array}$
$\begin{array}{r} 278.44 \\ - 19 \\ \hline 9 \end{array}$	

1 MAR 1961

$\frac{2}{10}$	$\frac{286}{80}$	$\frac{13}{80}$
293.33	$40\overline{0}$	20

4. 297 0810 +2

17
14
308
21
5.
-3

330	co	$\bar{5}$	415	7.
22	6.	6.	6.	+
322	67	67	67	=

334.12 23
+ 4 .
 27

41m - 1 - w14
352
24
9.
1 -

$$80 \equiv 363 \quad | -6$$

17
17
16
374
12

13
12
13
13
1

$$\begin{array}{r} 405 \\ \hline 256 \\ = \\ \boxed{19} \\ \boxed{12} \\ \boxed{19} \\ \hline 16 \\ 417.66 \\ 14. \\ -4 \end{array}$$

42

17	445.5	27
+3		16

7
4
2
16
462
18

15 00/15 -7 19 22 48

	2
	1.
	50
24	12
0	1
0	15
3	21
+	

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8MARDI.EW

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