

TABLE IV. SCHEME OF LAYING THE BEARINGS IN EQUAL TEMPERAMENT FROM F₂—F₃ BY FOURTHS AND FIFTHS—WITH TESTS

NOTE 1.—5ths must be contracted and 4ths expanded. But by taking all 5ths up and all 4ths down, each succeeding note to be tuned is flatted: thereby simplifying matters. The first F, however, is a 5th *down* and this F (and it alone) is *sharped*.
 NOTE 2.—Pitch is International C₃ = 258.65. 5ths are contracted, 4ths expanded, minor 3rds contracted, major 3rds expanded, major 6ths expanded, minor 6ths contracted.

801

Step	Notes	Interval or test chord	Frequencies	Beats per second	Beats in 10 seconds	Beats in 5 seconds
1	C ₄ —C ₃	Octave	517.3 —258.65	0.0	0	0
2	C ₃ —F ₂	perfect fifth	258.65—172.6	.6	6.0	3.0
3	C ₃ —G ₂	perfect fourth	258.65—193.7	.9	9.0	4.5
4	G ₂ —D ₃	perfect fifth	193.7 —290.2	.65	6.5	3.25
5	F ₂ —D ₃	major sixth	172.6 —290.2	8.0	80.0	40.0
6	D ₃ —A ₂	perfect fourth	290.2 —217.5	1.0	10.0	5.0
7	F ₂ —A ₂ —C ₃	major triad	.....	.....	.....	.....
8	F ₂ —A ₂	major third	172.6 —217.5	7.0	70.0	35.0
9	A ₂ —E ₃	perfect fifth	217.5 —325.9	.75	7.5	3.75
10	A ₂ —C ₃ —E ₃	minor triad	.....	.....	.....	.....
11	C ₃ —E ₃	major third	258.65—325.9	10.5	105.0	52.5
12	G ₂ —E ₃	major sixth	193.7 —325.9	9.0	90.0	45.0
13	E ₃ —B ₂	perfect fourth	325.9 —244.1	1.1	11.0	5.5
14	G ₂ —B ₂ —D ₂	major triad	.....	.....	.....	.....
15	G ₂ —B ₂	major third	193.7 —244.1	8.0	80.0	40.0
16	B ₂ —F ₂ [#]	perfect fourth	244.1 —182.8	.85	8.5	4.25
17	F ₂ [#] —A ₂ —D ₃	inverted major triad	.....	.....	.....	.....

601

Step	Notes	Interval or test chord	Frequencies	Beats per second	Beats in 10 seconds	Beats in 5 seconds
18	F ₂ [#] —A ₂	minor third	182.8 —217.5	10.0	100.0	50.0
19	F ₂ [#] —C ₃ [#]	perfect fifth	182.8 —274.0	.65	6.50	3.25
20	F ₂ [#] —A ₂ —C ₃ [#]	minor triad	.....	.....	.....	.....
21	A ₂ —C ₃ [#] —E ₃	major triad	.....	.....	.....	.....
22	A ₂ —C ₃ [#]	major third	217.5 —274	9.0	90.0	45.0
23	C ₃ [#] —G ₃ [#]	perfect fourth	274.0 —205.2	.95	9.5	4.75
24	G ₃ [#] —B ₂ —E ₃	inverted triad	.....	.....	.....	.....
25	G ₃ [#] —C ₃	major third	205.3 —258.65	8.5	85.0	42.5
26	G ₃ [#] —D ₃ [#]	perfect fifth	205.2 —307.5	.7	7.0	3.5
27	F ₂ [#] —B ₂ —D ₃ [#]	inverted triad	.....	.....	.....	.....
28	F ₂ [#] —D ₃ [#]	major sixth	182.8 —307.5	8.5	85.0	42.5
29	B ₂ —D ₃ [#]	major third	244.1 —307.5	10.0	100.0	50.0
30	D ₃ [#] —A ₂ [#]	perfect fourth	307.5 —230.4	1.0	10.0	5.0
31	F ₂ —A ₂ [#] —D ₃	inverted triad	.....	.....	.....	.....
32	F ₂ [#] —A ₂ [#]	major third	182.8 —230.4	7.5	75.0	37.5
33	A ₂ [#] —D ₃	major third	230.4 —290.2	9.5	95.0	47.5
34	A ₂ [#] —F ₃	perfect fifth	230.4 —345.3	.8	8.0	4.0
35	C ₃ [#] —F ₃	major third	274.0 —345.3	11.0	110.0	55.0
36	F ₂ —F ₃	Octave	172.6 —345.3	0.0	0.0	0.0