# Peter McKenzie Armstrong 

## Ostomachion Wind Chimes from Archimedes' Box

for 12 MIDI instruments<br>[Score]

2013

## Edition Ottaviano Petrucci

## NOTES for Score*

I have reordered the 24 tessellation scores so as to pair them as variously as possible: the odd-numbers ascending as originally, with the evens interlaced and descending. Interlaced in turn, externally separating the pairs, are uniquely positioned isolate puzzle pieces.

The puzzle's intermediate "triangle" groupings are realized (not separately, but) as instrumental and rhythmic subsets of the fullsquare tessellations. I.e., each triangle's several voices share a single instrument (so, 4 per square) and sync rhythmically per their original specification.

But the timing between triangles I have made variable, shifting them apart: increasingly, through odd-numbered tessellations; decreasingly, through the even-numbered. All-told, only two full-square instances actually do fit together: the first and last. Their pair-partners are the most out-of-whack, with intervening pairs variously so and the center ones about matched.
Random choices (of order, possibly also selection) have played a part, as I wanted an impression of "wind chimes" (unscripted, one presumes) overall: within range constraints, instruments and volume levels are randomly assigned. Some choices made "instead" by design have the intent to appear random: a tempo scheme, and the progression of subgroup-shifting silences.

All of the above I embodied in a program that (calculating via J, template editing via sed, music scoring via LilyPond and page assembling via pdfjam) generated this listening Score, and has others, complete as is. (Note: its accidentals apply once only.) The output audios - 71 MIDI files - I merged via Rosegarden, then converted via TiMidity to WAV and via pacpl to MP3.
My grandmother's wind chimes enjoyed a breeze far less often than not. Accordingly, this piece's main character is its silence. I recommend to the listener low volume and a wandering mind.

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# Ostomachion <br> Wind Chimes from Archimedes' Box 

1: $M M=72$, Vol=0.24
tubular bells



4 sec...



8 sec...


3 sec...


9 sec...



1 sec...




2 sec...


24 sec...

13: $M M=72$, Vol $=0.24$
tubular bells 2 :





1 sec...


10 sec...

19: $M M=72, \quad$ Vol $=0.24$
tubular bells 6


2 sec...


10 sec...

22: $M M=72$, Vol $=0.24$
tubular bells 6


3 sec...


24 sec...

25: $M M=72$, Vol $=0.24$



2 sec...


11 sec...


7 sec...


4 sec...


10 sec...

31: $M M=72, \mathrm{Vol}=0.24$
tubular bells $6: 40=0$ 开


4 sec...


10 sec...



4 sec...


END
Music engraving by LilyPond 2.12.3--www.lilypond.org


[^0]:    * The reader is referred first to those for the Catalog.

