

الْجَزْرِيّ

alJazari's
Ingenious
LOCKS
for orchestra

Karim Al-Zand
(2024)

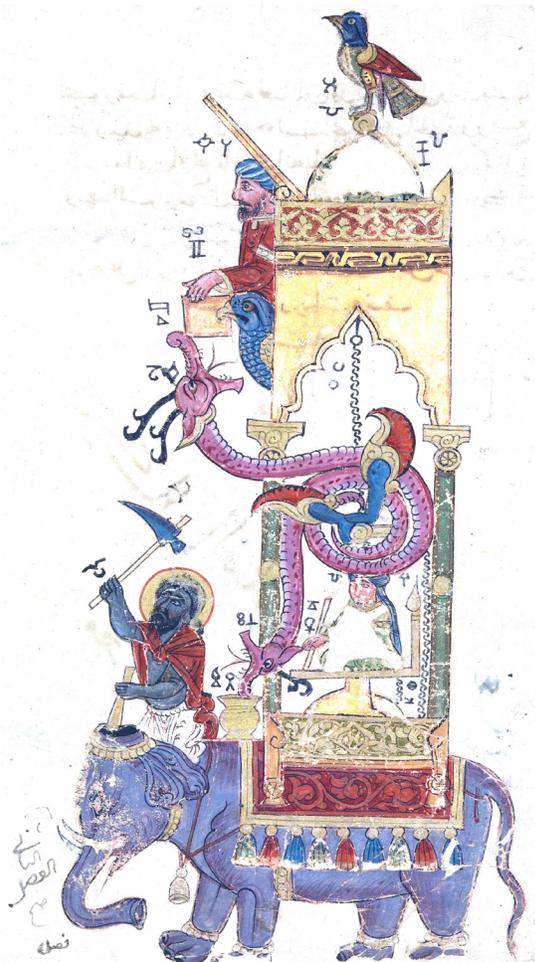
Program Note

Al-Jazari's Ingenious Clocks is an evocative time piece, a journey to a vivid world of invention and imagination. It is organized as a sequence of three scenes (played without pause) that mingle together imagery inspired by medieval inventor Ismail Al-Jazari's (1136–1206) magnificent clocks: the elements that drive them (fire, water, air); the kinetic forces they manifest (rhythm, momentum, acceleration); and the embodiment of the world seen in their visual design (animals, people, music).

The *candle clock* tells a wafting time. Seconds, minutes, hours drift by, coiling from the candle's wick in thin tendrils of smoke as the flame draws ever higher. As the hour approaches, the wax melts, its trail dripping a memory of time passed. The hands of the *musical clock* are the hands of drummers, who play a rhythmic dance. Together they try to beat time, but time will not succumb! Time can be kept but not saved, its passing marked with increasing intensity, building to an ecstatic climax. The *elephant clock* advances slowly, with a steady and gentle time that never forgets—but neither does it tarry. It moves forward, inexorably, irresistibly. And we all travel on its back, in a long caravan of time, each tolling bell a milestone on our journey to the future.

About Al Jazari

Ismail al-Jazari was a 12th century Islamic polymath: a scholar, inventor, engineer, artist and mathematician. He was born in 1136 in Upper Mesopotamia and served as the chief engineer for the Artuqid dynasty at the Artuklu Palace (located in modern-day Turkey). His remarkable treatise, *The Book of Knowledge of Ingenious Mechanical Devices* (1206) describes fifty machines al-Jazari



crafted to perform various tasks. Coupled with his own colorful illustrations, the book evokes a fairytale world of automated devices: a dancing water fountain, a band of mechanical musicians, a hydraulic “perpetual flute,” a self-cleaning washbasin, and a mechanized “butler” who prepares drinks. But all of the devices were fully operational (and have been re-created in modern times). In his pioneering work we encounter for the first time many of the foundational mechanisms of engineering: the crankshaft, segmental gears, escapement mechanisms, conical valves, advanced pulley rigs, and various mechanical systems of bolts and locks. Known as the “father of robotics” for his revolutionary work in automation, al-Jazari’s devices are fascinating both functionally and aesthetically.

But perhaps his most beautiful and captivating designs are his many mechanical clocks. These include elaborate candle clocks (triggered by melting wax), an astronomical “castle clock,” (including a Zodiac dial), a programmable clock of mechanical drummers (who beat out the hours!), a portable “scribe clock” and a giant “elephant clock” (left). These enchanting time machines are captivating to envision, but they are built with technology and a prescience that anticipates our automated modern world.

5

Alto Fl. *pp* *solo espres.* *pp*

Fl. 2, 3

Ob. 1, 2, 3

Cl. 1, 2 *pp*

Cl. 3

Bsn. 1, 2, 3

1, 2 Hn.

3, 4 Hn.

Trpt. 1, 2, 3, 4

Trbn. 1, 2

B. Trbn.

Tba.

Timp.

Perc.

Vibes *(tr²)*

Cel.

Hp.

Vln. I (2 stands, div.) *s*

Vln. II (2 stands, div.) *s*

Vla (div in 3)

Vc. (2 soli) *gliss.* *s*

CB

5

6

7

Alto Fl.

Fl. 2, 3

Ob. 1, 2, 3

Cl. 1, 2

Cl. 3

Bsn. 1, 2, 3

1, 2
Hn.

3, 4

Trpt. 1, 2, 3, 4

Trbn. 1, 2

B. Trbn.

Tba.

Timp.

Perc.

Vibes

Cel.

Hp.

Vln. I

Vln. II

Vla.

Vc. (2 soli)

CB

7 8

9

Alto Fl. *poco cresc.*

Fl. 2

Ob. 1, 2, 3

Cl. 1, 2

Cl. 3

Bsn. 1, 2, 3

1, 2
Hn.

3, 4

Trpt. 1, 2, 3, 4

Trbn. 1, 2

B. Trbn.

Tba.

Timp.

Perc.

Vibes

Cel.

Hp.

Vln. I

Vln. II

Vla.

Vc. (2 soli)

CB

A

poco rit.

poco più mosso ♩=92

11

Alto Fl. *cresc.* *p* *mp* (to FLUTE)

Fl. 2 *p*

Fl. 3 *p*

Ob. 1, 2, 3

Cl. 1, 2 *poco cresc.* *p*

Cl. 3 *p*

Bsn. 1, 2 *p*

Bsn. 3 *pp poco cresc.* *p*

1, 2 Hn. 1. sord. *p*

3, 4 Hn. 3. sord. *pp*

Trpt. 1, 2, 3, 4

Trbn. 1, 2

B. Trbn.

Tba.

Timp.

Perc.

Glock. *p*

Vibes (roll) *cresc.* *p*

Cel. *p* *mp*

Hp. *mp* prominently

poco rit.

poco più mosso ♩=92

Vln. I *poco cresc.* *p* tutti div. *espres., floating delicately* *poco piaz.*

Vln. II *poco cresc.* *p* tutti div. *sempre sul tasto*

Vla. *poco cresc.* *p*

Vc. solo *solo* arco *p*

Vc. gli altri div. *pizz.* *(arco) poco cresc.* *p*

CB *solo* *pizz.* *p*

16



molto allargando - - - - - più mosso ♩ = 108 (♩. = 38)

1. FLUTE

FL. 1, 2
FL. 3
Ob. 1, 2, 3
Cl. 1
Cl. 2
Cl. 3
Bsn. 1, 2
Bsn. 3
Hn. 1, 2
Hn. 3, 4
Trpt. 1, 2, 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Perc.
Glock.
Vibes
Cel.
Hp.

molto allargando - - - - - più mosso ♩ = 108 (♩. = 38)

Vln. I
Vln. II
Vla.
Vc. div.
solo CB
gli altri

16

17

18

22

FL. 1, 2
FL. 3
Ob. 1, 2
Ob. 3
Cl. 1, 2
Cl. 3
Bsn. 1, 2
Bsn. 3
1, 2
Hn.
3, 4
Trpt. 1, 2, 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Sizzle Cym.
Vibes
Cel.
Hp.
Vln. I
Vln. II
Vla.
Vc.
CB

22

23

24

poco accel. ----- più mosso ♩ = 126 (♩ = 42)

25

FL. 1, 2
FL. 3
Ob. 1, 2
Ob. 3
Cl. 1, 2
Cl. 3
Bsn. 1, 2
Bsn. 3
Hn. 1, 2
Hn. 3, 4
Trpt. 1, 2, 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Sizzle Cym.
Hi-Hat
Crash Cymbals
Cel.
Hp.
Vln. I
Vln. II
Vla.
Vc.
CB

25 26 27

28 poco accel. - - - - -

FL. 1, 2 2. to PICCOLO

FL. 3

Ob. 1, 2

Ob. 3

Cl. 1, 2 (1.) to E \flat CLARINET

Cl. 3

Bsn. 1, 2

Bsn. 3

Hn. 1, 2

Hn. 3, 4

Trpt. 1, 2, 3, 4 (1.) 2, 3, 4. straight mutes

Trbn. 1, 2 (1.) *f* 2. straight mute

B. Trbn. *f* straight mute

Tba. *f*

Timp.

Sizzle Cym.

Hi-Hat *f*

Crash Cymbals *mf*

to PIANO

Hp. B \flat F \sharp *poco f*

Vln. I arco *molto* pizz. poco accel. - - - - -

Vln. II arco *molto* pizz.

Vla. arco pizz.

Vc. arco pizz.

CB *ff*

28 29 30

D

(56) ♩ = ♩. (♩. = 84)

Musical score for orchestral section D, measures 56-65. The score is in 3/8 time and features a variety of instruments including woodwinds, brass, strings, and percussion. The tempo is marked as ♩ = ♩. (♩. = 84). The score includes dynamic markings such as *mp*, *mf*, *cresc.*, and *mf*, as well as performance instructions like *ord.*, *mp spirited, light*, *gliss.*, and *unis.*. The woodwind section includes Piccolo 1 & 2, Flute 1, Oboe 1 & 2, English Horn, Clarinet 1, E-flat Clarinet, Bass Clarinet, Bassoon 1 & 2, and Bassoon 3. The brass section includes Horns 1 & 2, Horns 3 & 4, Trumpets 1, 2, 3, & 4, Trombones 1 & 2, Baritone Trombone, and Tuba. The string section includes Violin I, Violin II, Viola, Violoncello, and Contrabass. The percussion section includes Timpani, Percussion, Xylophone, and Celesta/Piano. The harp is also present. The score is divided into two systems, with measures 56-61 in the first system and measures 62-65 in the second system.

66

$\text{♩} = \text{♩} (\text{♩} = 126)$

$\text{♩} = \text{♩}$

Picc. 1 (Fl. 2) *poco f* *cresc.*
 Picc. 2 (Fl. 3) *poco f* *cresc.*
 Fl. 1 *poco f* *cresc.*
 Ob. 1, 2 *poco f* *cresc.*
 EH *poco f* *cresc.*
 Cl. 1 *poco f* *cresc.*
 Eb Cl. *poco f* *cresc.*
 Bass Cl. *poco f* *cresc.*
 Bsn. 1 *poco f* *cresc.*
 Bsn. 2, 3 *poco f* *cresc.*
 1, 2 Hn. *poco f* *cresc.*
 3, 4 Hn. *poco f* *cresc.*
 Trpt. 1, 2, 3, 4 *poco f* *cresc.*
 1, 2 Trbn. *poco f*
 B. Trbn. *poco f*
 Tba. *poco f*
 Timp. *poco f*
 Tamb. *poco f* *cresc.*
 Xylo. *poco f* *cresc.*
 Cel./Pno. *poco f*
 Hp. *poco f*
 Vln. I *poco f* *urgently* *cresc.*
 Vln. II *poco f* *urgently* *cresc.*
 Vla. *poco f* *cresc.*
 Vc. *poco f* *cresc.*
 CB *poco f* *cresc.*

66 67 68 69 70 71 72 73

89
Picc. 1 (Fl. 2)
Fl. 1
Fl. 3
Ob. 1
Ob. 2
EH
Cl. 1
E♭ Cl.
Bass Cl.
Bsn. 1, 2, 3
Hn. 1, 2 (a2)
Hn. 3, 4 (a2)
Trpt. 1, 2
Trpt. 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Bass Drum
Crash Cymbals
Cel./Pno
Hp.
Vln. I
Vln. II
Vla.
Vc.
CB

89 90 91 92 93 94

ff
f
mf *cresc.*
f
vigorous
div.
unis.

Picc. 1 (Fl. 2)
 Fl. 1
 Fl. 3
 Ob. 1
 Ob. 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Cbsn.
 1, 2
 Hn. (a2)
 3, 4
 Trpt. 1, 2
 Trpt. 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Sus. Cym.
 Glock.
 Hp.
 C# A#
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

Picc. 1 (Fl. 2)
Fl. 1
Fl. 3
Ob. 1
Ob. 2
EH
Cl. 1
Eb Cl.
Bass Cl.
Bsn. 1, 2 (a2)
Cbsn.
Hn. 1, 2
Hn. 3, 4
Trpt. 1, 2 (a2)
Trpt. 3, 4 (a2)
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Tam-Tam
Crash Cymbals
Piano
Hp.
Vln. I
Vln. II
Vla.
Vc.
CB

TAM-TAM
Cr. Cym.
(do not re-take)
S⁺ (trem.)
div.
unis.

108 109 110 111 112 113

Picc. 1 (Fl. 2)
 Fl. 1, 3
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Bsn. 3
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Vibes
 Piano
 (S)
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB div.

p
mf prominently
 (solo) hard mallets
 dead strokes
f prominently
gliss.
pizz. *div.* *col legno unis.*
bouncing bow
p

A² E² F² A² E² F²

Picc. 1 (FL. 2)
 FL. 1, 3
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Bsn. 3
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Vibes
 Piano
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

p but swell on the long notes
 1. soli
 soli
 1. (solo)
p
 1, 2. harmon mutes; stem out
p
 div. unis. pizz. div. unis. sempre pizz.
 div. unis. div. unis. pizz. div. unis. sempre pizz. all accents very pronounced
 div. unis. div. unis. pizz. div. unis. sempre pizz. all accents very pronounced
 all accents very pronounced
 sempre div. unis. div.
 pizz. (dampened)
 unis. pizz. (dampened)

to B \flat CLARINET 3.
 A \flat E \sharp F \sharp A \flat

Picc. 1 (Fl. 2)
 Fl. 1
 Fl. 3
 Ob. 1, 2 (1.)
 EH
 Cl. 1
 Eb Cl.
 Cl. 3
 Bsn. 1, 2 (1.)
 Bsn. 3
 Hn. 1, 2
 Hn. 3, 4
 Trpt. 1, 2, 3, 4 (1., 2.)
 Trbn. 1, 2 (2. cup mute)
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Bass Drum (B. Drm. muted)
 Piano
 Hp.
 Vln. I (unis., div., sfz)
 Vln. II (unis., div., sfz)
 Vla. (unis., div., sfz)
 Vc. (p)
 CB (p)

143

144

145

146

147

148

Picc. 1 (FL. 2)
 FL. 1, 3
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Cl. 3
 Bsn. 1
 Bsn. 2
 Bsn. 3 (3. BASSOON)
 1, 2
 3, 4
 Hn.
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Bass Drum
 Sus. Cym.
 Piano
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

The musical score for page 149 includes parts for Piccolo 1 (Flute 2), Flutes 1 and 3, Oboes 1 and 2, English Horn, Clarinets 1, Eb Clarinet, Clarinet 3, Bassoons 1, 2, and 3 (with a 3rd Bassoon part), Horns 1, 2 and 3, 4, Trumpets 1, 2, 3, and 4, Trombones 1 and 2, Baritone Trombone, Tuba, Timpani, Tambourine, Darbuka, Bass Drum, Suspended Cymbal, Piano, Harp, Violin I, Violin II, Viola, Violoncello, and Contrabass. The score is in 4/4 time and features various musical notations such as dynamics (p, f, sf, mp), articulation (pizz, arco), and performance instructions (gliss, unis, div).

Picc. 1 (Fl. 2)
 Fl. 1
 Fl. 3
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Cl. 3
 Bsn. 1, 2
 Bsn. 3
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2
 Trpt. 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Sus. Cym.
 Xylo.
 Piano
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

Musical score for page 156, featuring various instruments including Piccolo, Flutes, Oboes, Clarinets, Bassoons, Horns, Trumpets, Trombones, Percussion, and Strings. The score includes dynamic markings such as *p* and *arco*, and performance instructions like "cup mutes" and "1. cup mute". The piano part includes an 8va marking and a section labeled "to CELESTA".

Picc. 1 (Fl. 2)
 Fl. 1, 3
 Ob. 1
 Ob. 2
 EH
 Cl. 1
 Eb Cl.
 Cl. 3
 Bsn. 1, 2
 Bsn. 3
 1, 2
 Hn. 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Crash Cymbals
 Cel./Pno
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

Picc. 1 (Fl. 2)

Fl. 1

Fl. 3

Ob. 1, 2

EH

Cl. 1

E♭ Cl.

Cl. 3 to B♭ BASS CLARINET

Bsn. 1, 2

Bsn. 3

Hr. 1, 2

Hr. 3, 4

Trpt. 1, 2

Trpt. 3, 4 3, 4. straight mutes

Trbn. 1, 2

B. Trbn.

Tba.

Timp.

Tamb.

Darbuka

Glock.

Cel. CELESTA

Hp.

Vln. I

Vln. II

Vla.

Vc.

CB

Picc. 1 (Fl. 2)
 Fl. 1
 Fl. 3
 Ob. 1, 2 (1.)
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Bsn. 3
 1, 2 (1.)
 Hn. (3.)
 3, 4 (3., 4.)
 Trpt. 1, 2, 3, 4 (1.)
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Hi-Hat
 Glock.
 Ccl.
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

Musical score for measures 174-178. The score includes various instruments and percussion parts. Key markings include:

- Dynamic markings:** *mf* (mezzo-forte) is used frequently across the woodwinds and strings.
- Performance instructions:**
 - gliss.* (glissando) is marked for several woodwind parts.
 - div.* (divisi) is used for string parts.
 - pizz.* (pizzicato) is used for the cello and double bass.
 - arco* (arco) and *unis. arco* (unison arco) are used for the violins and viola.
 - pizz.* (pizzicato) and *arco* are used for the cello and double bass.
- Other markings:**
 - 1. harmon mute; stem out* for the trumpet.
 - not too loose* for the hi-hat.
 - to PIANO* for the celesta.

Picc. 1 (Fl. 2)
 Fl. 1, 3
 Ob. 1, 2 (2.)
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Bsn. 3
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2 (1.)
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Hi-Hat
 Cel./Pno
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc. div.
 CB (unis.)

The musical score is arranged in a standard orchestral format. It begins at measure 179 and ends at measure 184. The score includes parts for woodwinds (Piccolo, Flutes, Oboes, Clarinets, Bassoons), brass (Horns, Trumpets, Trombones, Tuba), percussion (Tympani, Tambourine, Darbuka, Hi-Hat), and strings (Violins I and II, Viola, Violoncello/Double Bass, and Contrabass). The woodwinds and strings play melodic lines with various articulations and dynamics. The percussion section provides a rhythmic accompaniment. The score is written in a key signature of one flat and a time signature that changes from 3/4 to 4/4 and back to 3/4.

Fl. 1, 2, 3
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl. B \flat BASS CLARINET
 Bsn. 1
 Bsn. 2
 Cbsn.

1, 2
 Hn. *molto cresc.*
 3, 4

Trpt. 1, 2
 Trpt. 3, 4 *molto cresc.*

Trbn. 1, 2
 B. Trbn. *cresc.*
 Tba.

Timp. *cresc.* solo ad lib. in 4 *mf*

Tamb.
 Darbuka
 Bass Drum *f* *mf* *mp*

Piano *poco f*
 Hp.

Vln. I (unis.) *f* *poco f* *div.*
 Vln. II (unis.) *poco f* *div.*
 Vla. (unis.) *poco f* *div.*
 Vc. (unis.) *f* *poco f* *div.*
 CB (unis.) *f* *poco f* *div.*

188 189 190 191 192

Picc. 1 (Fl. 2)
Fl. 2, 3
Ob. 1, 2
EH
Cl. 1
Eb Cl.
Bass Cl.
Bsn. 1
Bsn. 2
Cbsn. [CONTRABASSOON] *mf*
1, 2 Hn.
3, 4 Hn.
Trpt. 1, 2
Trpt. 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Tamb.
Darbuka
Bass Drum
Sus. Cym. [Sus. Cym.] *f*
Hp.
Vln. I
Vln. II
Vla.
Vc.
CB

Picc. 1 (Fl. 2)
 Picc. 2 (Fl. 3)
 Fl. 1
 Ob. 1
 Ob. 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Cbsn.
 Hn. 1, 2 (1.)
 Hn. 3, 4 (3.)
 Trpt. 1, 2
 Trpt. 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Timbales
 Xylo.
 Piano
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

The musical score for page 203 is a page from a symphony orchestra score. It features 25 staves for various instruments. The top section includes woodwinds: Piccolos (Fl. 2 and Fl. 3), Flute 1, Oboe 1 and 2, English Horn (EH), Clarinet 1, Eb Clarinet, Bass Clarinet, Bassoon 1 and 2, and Contrabassoon. The middle section includes brass: Horns (1, 2 and 3, 4), Trumpets (1, 2 and 3, 4), Trombones (1, 2), Baritone Trombone, and Tuba. The bottom section includes percussion: Timpani, Tambourine, Darbuka, Timbales, and Xylophone. The string section includes Violin I and II, Viola, Violoncello (Vc.), and Contrabass (CB). The score is written in 4/4 time and includes various musical notations such as dynamics (f, sf), articulation (pizz., arco), and performance instructions (div.).

Picc. 1 (Fl. 2)
Picc. 2 (Fl. 3)
Fl. 1
Ob. 1
Ob. 2
EH
Cl. 1
E♭ Cl.
Bass Cl.
Bsn. 1, 2
Cbsn.
1, 2 Hn.
3, 4 Hn.
Trpt. 1, 2, 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp.
Tamb.
Darbuka
Xylo.
Piano
Vln. I
Vln. II
Vla.
Vc.
CB

207 208 209 210

I

Picc. 1 (Fl. 2)
 Picc. 2 (Fl. 3)
 Fl. 1
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Cbsn.
 1, 2
 Hn. 3, 4
 Trpt. 1, 2
 Trpt. 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tamb.
 Darbuka
 Bass Drum
 Timbales
 Xylo.
 Piano
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

Picc. 1 (Fl. 2)
 FL. 1, 3
 Ob. 1, 2
 EH
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Cbsn.
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Jam Block
 Crash Cymbals
 Bass Drum
 Toms
 Timbales
 Piano
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

Picc. 1 (Fl. 2)
 Fl. 1, 3
 Ob. 1, 2
 Ob. 3
 Cl. 1
 Eb Cl.
 Bass Cl.
 Bsn. 1, 2
 Bsn. 3
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Jam Block
 Crash Cymbals
 Bass Drum
 Toms
 Timbales
 Piano
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

ff
 ff
 ff
 lip trill
 lip trill
 sub. slide
 mf
 f
 lip trill
 (no "fall off")
 gliss.
 gliss.
 lip trill
 (no "fall off")
 ff
 ff
 cresc.
 Ch. Cym mallets
 long ring
 ff
 Tamb.
 mp
 hand-dampen hembra
 mp
 8^a 2-1
 f
 ff
 gliss.
 gliss.
 sub. mp
 div. in 2
 gliss.
 gliss.
 sub. mp
 f
 ff
 gliss.
 gliss.
 f
 ff
 ff
 ff

Picc. 1 (Fl. 2)
Fl. 1, 3
Ob. 1, 2
Ob. 3
Cl. 1
E♭ Cl.
Bass Cl.
Bsn. 1, 2
Cbsn.
1, 2
Hn.
3, 4
Trpt. 1, 2, 3, 4
Trbn. 1, 2
B. Trbn.
Tba.
Timp. *mp* *decresc.*
Tamb.
Darbuka. *p* *decresc.*
Timbales *decresc.*
Piano
Hp. *mp* *decresc.*
Vln. I *decresc.* (½ section)
Vln. II *decresc.* *pp*
Vla.
Vc.
CB

240 241 242 243 244 245 246 247

L

262

colla parte

[1. to ALTO FLUTE]

Extremely Slowly; with a serene tranquility $\text{♩} = 58$
(but felt in an expansive 2)

The score is divided into two systems. The first system (measures 262-268) includes woodwinds (Flutes 1, 2, 3; Oboes 1, 2, 3; Clarinets 1, Eb, Bass; Bassoons 1, 2; Contrabassoon), strings (Violins 1, 2; Horns 1, 2, 3, 4; Trumpets 1, 2, 3, 4; Trombones 1, 2; Bass Trombone; Tuba; Timpani; Tam-Tam; Bass Drum; Vibes; Piano; Harp), and percussion. The second system (measures 262-268) includes strings (Violins I, II; Viola solo; Violins and Violas tutti; Violoncello; Contrabass). The score contains various performance instructions such as *colla parte*, *pp*, *p*, *sim.*, *soft mallets*, *very soft beater*, *very soft mallets*, *in 2 arco*, *unis.*, *dolce*, *sub. pp*, *div.*, *tutti div.*, *sul IV*, *take time*, *arco*, and *4 soli*. Measure numbers 262, 263, 264, 265, 266, 267, and 268 are printed below the staves.

ALTO FLUTE solo

to FLUTE 1.

Alto Fl. *pp* *p*

Fl. 2, 3

Ob. 1 *soli* *mf* *sim.*

Ob. 2 *soli* *mf* *sim.*

Ob. 3 *soli* *mf* *sim.*

Cl. 1

E♭ Cl.

Bass Cl.

Bsn. 1, 2 *p* *poco* *sim.*

Cbsn.

1, 2

Hn.

3, 4

Trpt. 1, 2, 3, 4

Trbn. 1, 2 bucket mutes *very slow glisc.*

B. Trbn. bucket mute *pp* *very slow glisc.*

Tba. *pp*

Timp. *p*

Tam-Tam

Bass Drum *p*

Vibes

Piano *p* *poco* *sim.*

Hp. *8^a*

Vln. I

Vln. II

Vla. *div.* *p*

Vc. *p* *tutti div.* *mp*

CB *p* *pizz./arco*

269

270

271

272

273

274

FL. 1, 2
 FL. 3
 Ob. 1
 Ob. 2
 Ob. 3
 Cl. 1
 E♭ Cl.
 Bass Cl.
 Bsn. 1, 2
 Cbsn.
 1, 2
 Hn.
 3, 4
 Trpt. 1, 2, 3, 4
 Trbn. 1, 2
 B. Trbn.
 Tba.
 Timp.
 Tam-Tam
 Bass Drum
 Glock.
 Vibes
 Piano
 Hp.
 Vln. I
 Vln. II
 Vla.
 Vc.
 CB

275 276 277 278 279

M

molto! rit. - - - Quickly; restive, expectantly ca. ♩ = 80

285

Musical score for woodwinds, brass, and percussion. The score is in 4/4 time and includes parts for Flute 1-3, Oboe 1-3, Clarinet 1, Bass Clarinet, Bassoon 1-2, Contrabassoon, Horn 1-2, Horn 3-4, Trumpet 1-2, 3-4, Trombone 1-2, Baritone Trombone, Tuba, Timpani, Tam-Tam, Suspended Cymbal, Vibes, Chimes, Celesta, and Harp. The woodwinds and strings play a melodic line starting at measure 285, marked with *fpp* and *poco cresc.*. The brass section provides harmonic support, with horns using mutes and trumpets using bucket mutes. The percussion section includes a celesta solo and harp accompaniment. The score concludes at measure 287 with a *pp* dynamic.

molto! rit. - - - Quickly; restive, expectantly ca. ♩ = 80

Musical score for strings, including Violin I, Violin II, Viola, Violoncello, and Contrabasso/Double Bass. The strings play a melodic line starting at measure 285, marked with *ppp* and *arco*. The score concludes at measure 287 with a *pp* dynamic.

285 286 287 288 289