

Omar Daniel

Regarding U.S. Patent
1,661,058

METHOD OF AND APPARATUS FOR THE GENERATION OF SOUNDS

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METHOD OF AND APPARATUS FOR THE GENERATION OF SOUNDS

Omar Daniel

for Theremin, String Quartet and Hammond Organ

I- Introduzione- Invenzione

II- Ricercare

III Fantasia

duration: 17 minutes

for Carolina Eyck, the Penderecki String Quartet and Gregory Oh

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Regarding U.S. Patent 1,661,058

METHOD OF AND APPARATUS FOR THE GENERATION OF SOUNDS

I

Introduzione-- Invenzione

Omar Daniel

Allegro Barbaro ♩=104

Theremin

Violin I

Violin II

Viola

Violoncello

Allegro Barbaro ♩=104

Electric Organ

Pedals

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

13

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

=

A

19

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

Andante Martellato ♩=84

28

B ♩=84

Th.

Vln. I

Vln. II

Vla.

Vc.

Andante Martellato ♩=84

B

E. Org.

Ped.

30

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

32

8va

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

34

(8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

36 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

38 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

Più mosso, leggiero $\text{♩} = 104$

40 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

Più mosso, leggiero $\text{♩} = 104$

C Andante Maestoso $\text{♩} = 84$

44

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

C Andante Maestoso $\text{♩} = 84$

48

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

53

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

D

Lento $\text{♩} = 60$

molto espressivo, lamentoso

Th.

59

pp

E. Org.

Ped.

p



66

Th.

pp

E. Org.

Ped.

pp



72

Th.

E. Org.

Ped.

II
Ricercare

Allegro $\text{J}=112$

Theremin

Violin I

Violin II

Viola

Violoncello

Electric Organ

Pedals

Allegro $\text{J}=112$

A

10

approximate pitch

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

non legato

f

non legato

f

non legato

f

non legato

f

A

16

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

E. Org.

Ped.

21

Th.

Vln. I

Vln. II

Vla.

Vc.

21

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

27

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

Th.

B

molto vib. ad.lib.

31

f

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

B

ff

ff

ff

ff

ff

ff

ff

ff

36

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

8th note rhythm,
pitches ad.lib.

ad.lib.

mid register

42

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

ff

C

descend using pattern

47

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

C

descend using pattern

47

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.



53

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

59

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.



65

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

72

Th. Vln. I Vln. II Vla. Vc.

D *dolce*

E. Org. Ped.

D

79

Th. Vln. I Vln. II Vla. Vc.

E. Org. Ped.

84

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

p

8va

8va

88

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

pizz.

mf

p

(8)

(8)

92

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

(8)

E

ad. lib.
keep similar range and pattern
keep quarter note rhythm

96

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

E

arco

arco

f

101

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

≡

106 *descending pattern*

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

F

legatissimo

110

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

F

legatissimo

p

legatissimo

p

117

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

126

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

G

134

Th.

Vln. I

Vln. II

Vla.

Vc.

G

E. Org.

Ped.

138

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

142

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

146

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

H

H

150

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

154

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

157

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.



161

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

27

I

165

Th.  *p*

Vln. I  *p*

Vln. II  *p*

Vla. -

Vc. - *p*

E. Org.

Ped.

173

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

This musical score page features six staves. The top staff is for Trombone (Th.), showing eighth-note patterns. Below it are two staves for Violin I (Vln. I) and Violin II (Vln. II), both with sixteenth-note patterns. The third staff is for Cello (Vla.). The fourth staff is for Double Bass (Vc.), which has a bass clef and includes a dynamic marking of $\#q$. The bottom section contains two staves: one for Electric Organ (E. Org.) and one for Pedal (Ped.). The E. Org. staff uses a treble clef, while the Ped. staff uses a bass clef. Measures are separated by vertical bar lines, and some notes have horizontal stems extending across multiple measures.

180

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

185

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

J

190

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

J

196

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

=

197

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

III
Fantasia
Lento e da lontano ♩=52

Theremin

Violin I

Violin II

Viola

Violoncello

Electric Organ

Pedals

Lento e da lontano ♩=52



8

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

Appassionato (l'istesso tempo)

A

Th. Vln. I Vln. II Vla. Vc.

16 (D) e e 8va f f 12 f f f

E. Org. Ped.

Appassionato (l'istesso tempo)

20 (8) Th. Vln. I Vln. II Vla. Vc.

Vln. I Vln. II Vla. Vc.

E. Org. Ped.

22 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

12 12 13

23 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

f 5 12 12 13 7

24 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

25 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

Detailed description: The musical score is divided into two systems, each consisting of eight measures. System 24 begins with a rest for the trumpet (Th.) in measure 1. In measure 2, violin I (Vln. I) plays a sixteenth-note pattern with grace notes. Violin II (Vln. II) enters in measure 3 with eighth-note pairs. Viola (Vla.) and cello (Vc.) join in measure 4. Measures 5-8 continue with similar patterns for the strings. System 25 begins with entries from violin I and II in measure 1. Violin I has a sixteenth-note pattern with grace notes, while violin II has eighth-note pairs. Viola and cello enter in measure 2. Measures 3-8 show sustained notes from the organ (E. Org.) and pedal (Ped.), with the strings providing harmonic support.

26 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

27 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

The musical score for orchestra and organ on page 34 is divided into two systems. System 26 (measures 8) features parts for Th., Vln. I, Vln. II, Vla., Vc., E. Org., and Ped. The score includes various musical markings such as slurs, grace notes, and dynamic changes. Measure 13 is marked at the end of system 26 and the beginning of system 27. System 27 (measures 8) continues with the same instruments: Th., Vln. I, Vln. II, Vla., Vc., E. Org., and Ped. The instrumentation remains consistent throughout the page.

28 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

B

31 (8)

Andante con moto $\text{♩} = 104$

non dim. *mf*

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

B Andante con moto $\text{♩} = 104$

36

Th. - *f*

Vln. I - *ff*

Vln. II - *ff*

Vla. - 4

Vc. - 5

E. Org. - *f*

Ped. -

38

Th. - *p.*

Vln. I - *p.*

Vln. II - *p.*

Vla. - 4

Vc. - 5

E. Org. - *f*

Ped. -

39

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

C

8va

41

Th.

Vln. I

Vln. II

Vla.

Vc.

C

E. Org.

Ped.

42 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

43 (8)

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

44 (8)

This musical score page shows measures 44 through 8. The instrumentation includes a Trombone (Th.), Violin I (Vln. I), Violin II (Vln. II), Cello (Vla.), Double Bass (Vc.), Electric Organ (E. Org.), and Pedal (Ped.). The score consists of six systems of music. The first system starts with a sustained note from the Trombone. The second system features sustained notes from Violin I and II. The third system contains eighth-note patterns for Cello and Double Bass. The fourth system shows eighth-note patterns for Cello and Double Bass. The fifth system starts with eighth-note patterns for Electric Organ and Pedal. The sixth system continues with eighth-note patterns for Electric Organ and Pedal.

46

This musical score page shows measure 46. The instrumentation includes a Trombone (Th.), Violin I (Vln. I), Violin II (Vln. II), Cello (Vla.), Double Bass (Vc.), Electric Organ (E. Org.), and Pedal (Ped.). The score consists of six systems of music. The first system starts with a sustained note from the Trombone. The second system features sustained notes from Violin I and II. The third system contains eighth-note patterns for Cello and Double Bass. The fourth system shows eighth-note patterns for Cello and Double Bass. The fifth system starts with eighth-note patterns for Electric Organ and Pedal. The sixth system continues with eighth-note patterns for Electric Organ and Pedal.

D

48

Th.

Vln. I

Vln. II

Vla.

Vc.

D

E. Org.

Ped.

50

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

52

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.



54

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

ff

ff

56

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

E

58 Adagio, maestoso $\text{♩}=60$

molto vibrato, espressivo

Th.

Vln. I

Vln. II

Vla.

Vc.

E

Adagio, maestoso $\text{♩}=60$

E. Org.

Ped.

F

65 Andante, con forza, strepitoso $\text{♩}=104$

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

67

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

69

Th.

(8)

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

70

Th.

(8)

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

72

Th.

Vln. I *non dim.*

Vln. II *non dim.*

Vla. *non dim.*

Vc. *non dim.*

E. Org.

Ped.

75

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

78

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

G **Meno mosso** $\text{♩}=84$

84 *molto espressivo, lamentoso*

Th.

Vln. I

Vln. II

Vla.

Vc.

G **Meno mosso** $\text{♩}=84$

E. Org.

86

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

88

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.

90

Th.

Vln. I

Vln. II

Vla.

Vc.

E. Org.

Ped.