

KJELL SAMKOPF

# OPPFINNELSE NR. 5

FOR  
SLAGVERK OG ELEKTRONIKK





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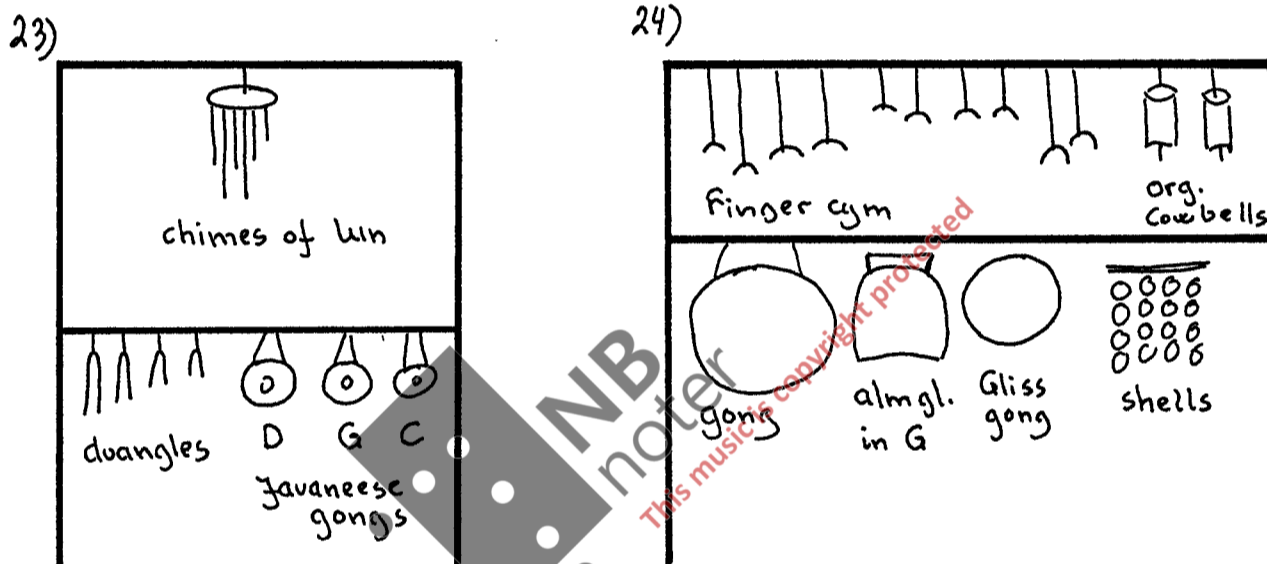
 NB  
noter  
*This music is copyright protected*  
DURATA CA. 23 MIN.

Uroppført under Elektronmusikkfestivalen i Stockholm 1. oktober 1981 av Kjell Samkopf på slagverk og Gunnar Berg-Nielsen som lydtekniker.

OPPFINNELSE NR. 5 finnes innspilt på SIMAX PN 2009.

## INSTRUMENTS

1. Vibraphone w/motor
2. Marimba
3. Multimoog synthesizer
4. Multimoog synthesizer
5. Moog Sample and Hold Model 1125
6. Roland Echo/Chorus
7. Moog Percussion Controller Mod. 1130
8. Synpuls Drum synthesizer
9. Set of 8 Tama Octoban drums
10. 5 Temple-blocks (bright)
11. 5 Temple-blocks (mellow)
12. 3 Woodblocks
13. 1 pair of claves
14. African cowbell agogo in G  
(or cowbell in G)
15. Cowbell
16. 1 pair of maraccas
17. Guiro
18. Large Tam-tam, with G as fundamenta
19. Sizzle Cymbal
20. Dark sounding cymbal
21. Splash cymbal
22. bright sounding cymbal



The "Chimes of lun" are a set of windchimes carefully tuned to an ancient Chinese pentatonic scale. Frequency ratios descending  $\frac{3}{2}$   $\frac{4}{3}$   $\frac{9}{8}$   $\frac{1}{1}$   $\frac{16}{9}$   $\frac{3}{2}$

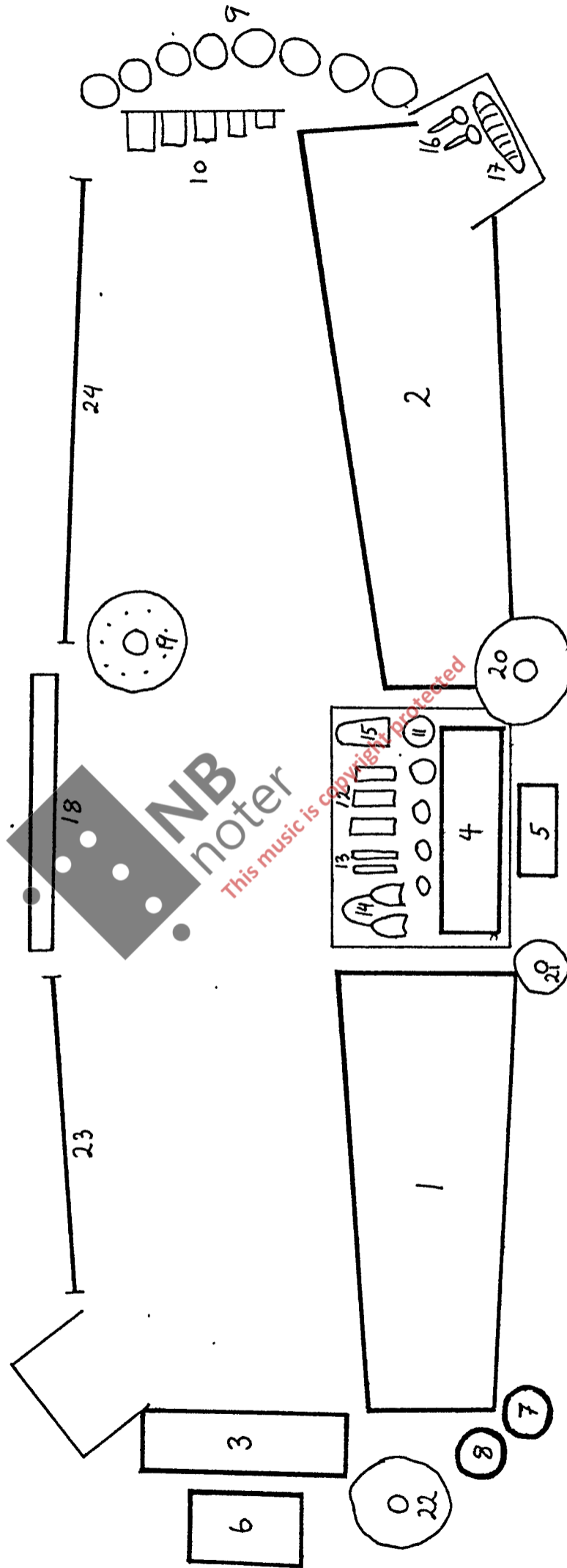
The "Chimes of lun" are available from: Woodstock Percussion Inc.  
Rt 1 box 381 A  
West Hurley, N.Y. 12491  
U.S.A.

A "duangle" is a U-shaped steel rod which produces a very bright sound. The duangles may be replaced by four small triangles.

The duangles are available from: Musikk & Instrument Service  
Postboks 42  
N - 2090 Hurdal  
NORWAY

The "glissando gong" is a small Chinese gong (FU-YIN LW0/Peking) which produces a short downward glissando when struck with a hard mallet.

Instrument set-up for "Oppfinnelse nr. 5" by Kjell Samkøpf



Audience

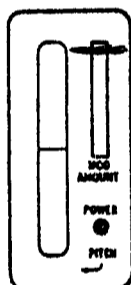
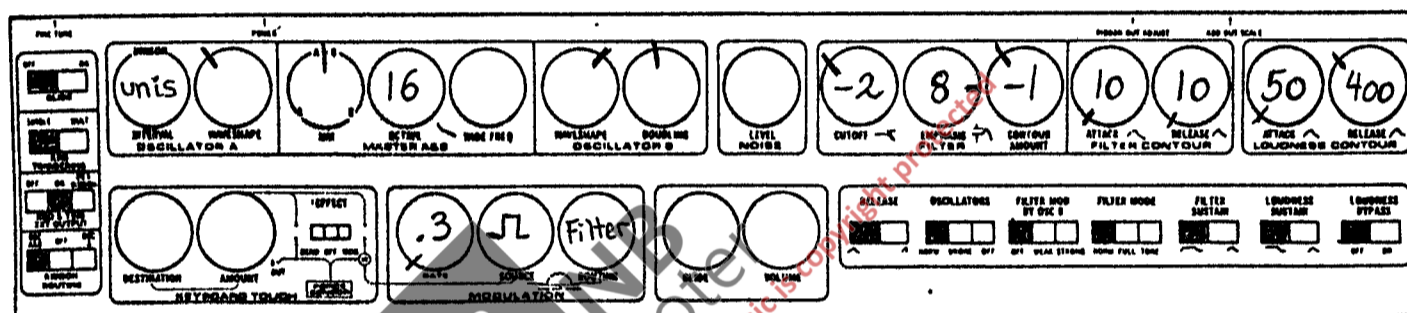
## CONNECTIONS

## MOOG SAMPLE AND HOLD MODEL 1125

Connect the Red phone plug of the sample and hold unit to the Oscillator A&B input of the Multimoog synthesizer and the Black phone plug to the Filter input.

Set the Sample and Hold to the following positions:

Scale span	→ wide	Rate span	→ narrow
Glide	→ 0	Output 1	→ off
Scale	→ 5.5	Output 2	→ on
Random	→ 4	Trigger	→ on
Rate	→ 1.2	Gate	→ short
Pattern	→ 5		



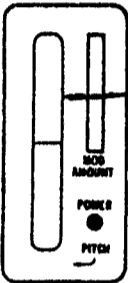
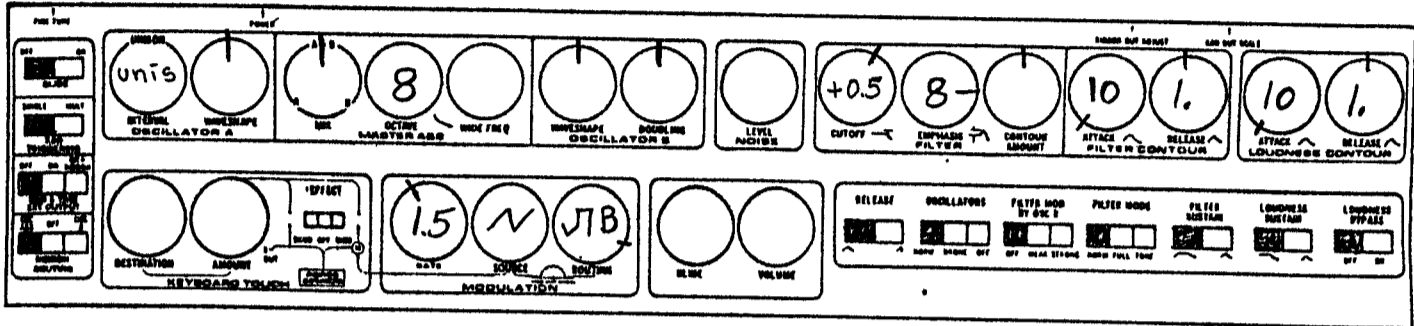
## MULTIMOOG SOUND CHART NO. 1

Depress the low G on the keyboard

## MOOG PERCUSSION CONTROLLER MODEL 1130

Connect the Red phone plug of the Percussion Controller to the Oscillator A&B input of the Multimoog synthesizer and the Black phone plug to the Filter input.

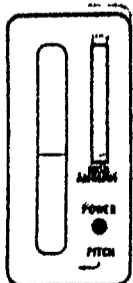
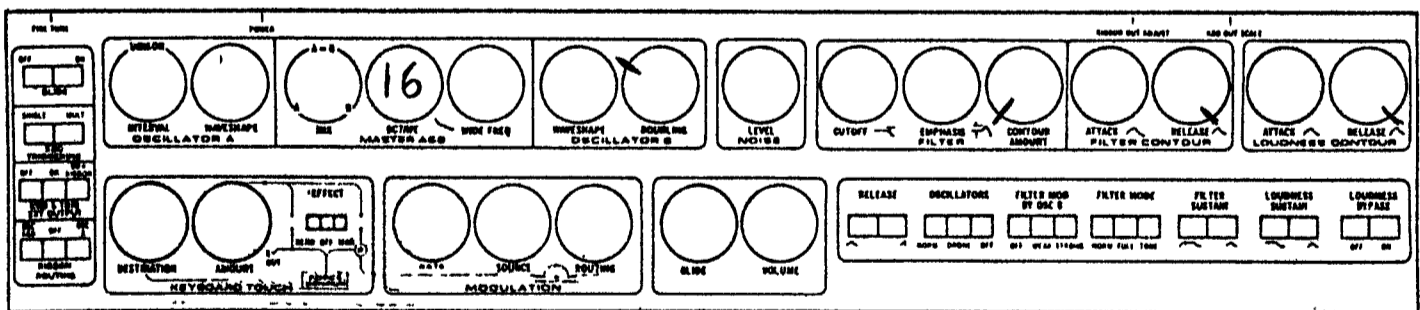
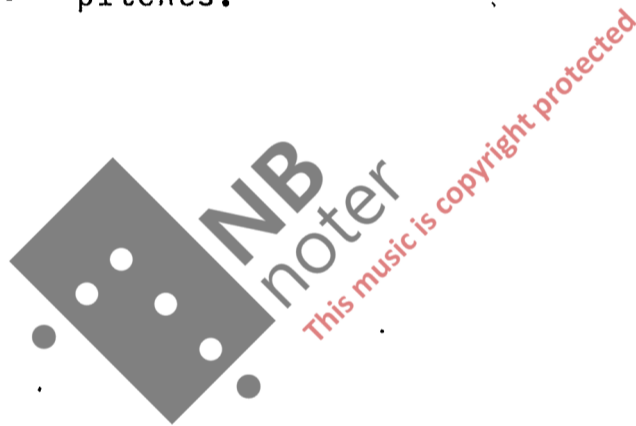
Set the Percussion Controller to: Scale → 0  
Sensitivity → 10



### MULTIMOOG SOUND CHART NO. 2

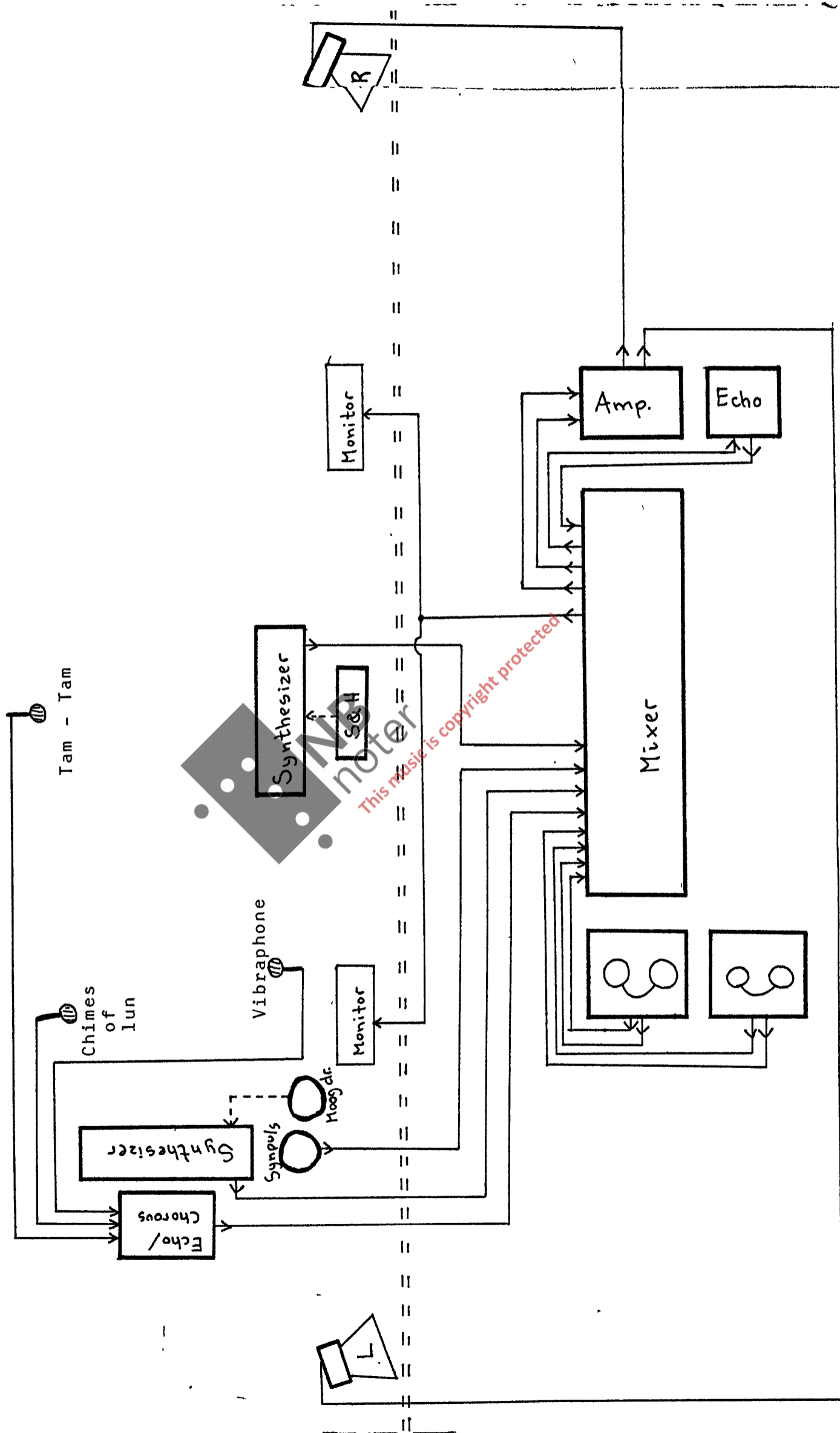
(Depress the low G on the keyboard)

Use the pitch-ribbon to achieve the various pitches.



### MULTIMOOG SOUND CHART NO. 3

FLOW CHART





# Oppfinnelse nr. 5

slagverk for og elektroniske

Kjell Samkopp  
(1981)

Introduction

No tempo

Chimes of Lun

Javanese gongs  
soft yam mallets



Tape I (Frogs) DAT 10 No. 1

ppp

1 Slowly

2 No tempo

Claves

in tempo

sfz

fade out

Tape I

pp

Rotating duangles

triangle stick

Javanese gongs

add chorus

3

In tempo

2 wood blocks, hard rubber mallets

ff

fade out

3

4

Tape I

w/ chorus

Soft yarn mallets

Javanese gong

Vib

Vib.

Tam-tam finger roll

Javanese gong

Vib.

Tam-tam

gongs

Tam-tam

The first system shows a gong icon above a staff with a treble clef and a melodic line of three notes. The second system shows a tam-tam icon above a staff with a single note and a wavy line.

5 Very fast (as fast as possible)

5 temple blocks, hard mallets

fff fade out

etc.

The system contains a staff with a treble clef and a series of six groups of notes, each with a downward-pointing arrow. A large arrow points from the first group to the right. The system ends with a wavy line labeled 'etc.'.

Part I

6

triangle sticks

Finger cymbal

shell

Metal ad lib.

p mp

The system shows two staves. The top staff has a treble clef and notes for 'triangle sticks' and 'Finger cymbal'. The bottom staff has a wavy line for 'shell'. A box labeled 'Metal ad lib.' is above the wavy line. Dynamics 'p' and 'mp' are indicated.

(Metal) Almglocken (metal)

rub hard

(shell)

The system shows two staves. The top staff has a wavy line for '(Metal) Almglocken (metal)' with 'rub hard' written below it. The bottom staff has a wavy line for '(shell)'.

Tape II DAT id No. 2

mp

The system shows a staff with a wavy line and the text 'Tape II DAT id No. 2' above it. A large arrow points from the wavy line to the right, with 'mp' written below it.

Tam-tam, cymbals, gongs

Gliss gong

7

Vibraphone

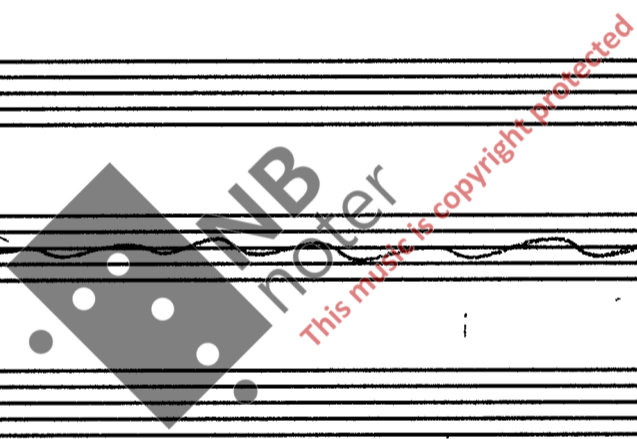
(No time)

as loud and fast as possible over the entire range

thinner, softer

Vib solo (free impr.)

(fade out)



Part II

8

♩ = 144 soft yarn malletts

Marimba

Handwritten musical notation for the first system. The treble clef staff contains a melodic line with a key signature of two flats and a repeat sign. The bass clef staff contains a rhythmic accompaniment with four-measure groups. Dynamics include *f* and *dim.*

Handwritten musical notation for the second system. The treble clef staff contains a melodic line with a key signature of two flats and a repeat sign. The bass clef staff contains a rhythmic accompaniment with four-measure groups. Dynamics include *p* and *cresc.*

Handwritten musical notation for the third system. The treble clef staff contains a melodic line with a key signature of two flats and a repeat sign. The bass clef staff contains a rhythmic accompaniment with four-measure groups. Dynamics include *p* and *cresc.*

Handwritten musical notation for the fourth system, starting with a boxed number '9'. The treble clef staff contains a melodic line with a key signature of two flats and a repeat sign. The bass clef staff contains a rhythmic accompaniment with six-measure groups. Dynamics include *ff* and *dim.*. The instruction "Change feel to" is written at the end of the system.

Handwritten musical notation for the fifth system. The treble clef staff contains a melodic line with a key signature of two flats and a repeat sign. The bass clef staff contains a rhythmic accompaniment with four-measure groups. Dynamics include *f*.



Musical notation for the first system, featuring a treble and bass clef. The treble clef contains a sequence of notes with accidentals (flats and a sharp) and rhythmic groupings of four notes. The bass clef contains a steady eighth-note accompaniment.

Musical notation for the second system. A box labeled "10" is placed above the treble clef. The treble clef has a wavy line indicating improvisation. The bass clef continues with the eighth-note accompaniment. Handwritten instructions on the right read: "Improvise in same style, using the same pitches" and "Keep same figure in left hand".

Musical notation for the third system. The treble clef contains a wavy line, and the bass clef continues with the eighth-note accompaniment.

Musical notation for the fourth system. A box labeled "III" is placed above the treble clef. The treble clef has notes with a dynamic marking "ff" and a slur. The bass clef continues with the eighth-note accompaniment. Handwritten instructions on the right read: "Use these pitches and rhythms as a basis for further improvisation" and "Keep same figure".

Musical notation for the fifth system. The treble clef contains a wavy line, and the bass clef continues with the eighth-note accompaniment.

12

etc. using same pitches and rhythms

f

Keep same figure

mp

dim

fade

13

No tempo Maracas

Templeblocks, woodblocks  
in irregular pointilist  
patterns ad. lib.

Octoban

f

dim

P

Wood and skin in irregular pointilist patterns ad. lib.

Tape I DAT id No. 3

f

14 Funk Groove African ago-go (in G)

Multi Moog 2, S & H (sound chart no. 1)

Tam-tam

ff

f

cresc.

f

cresc.

Cymms.

Synpuls

ff

Gongs

Vib.

Moog dr. (sound chart no. 2)

Synpuls

Cymms

Cymms

Gong

Alm gl.

Glissgong

Temple

Glock

Octoban

Guiro

Gliss gong

Alm gl.

Gong



Tam-tam  
Gongs  
Vibraphone w/motor \*)  
f sempre ped.  
p

\*) and with two light and very hard mallets placed between the bars of A and B and D and E to produce a rattling noise.

15 African ago-go (in G)

Tam-tam  
ff

Synpuls  
Moog dr.  
gongs  
Vib.

freely on woodblocks,  
cowbells, templeblocks  
Change pitch  
with ribbon  
etc.  
mf  
Tape II DAT id No. 4  
mf

Cue: Cow bell Temple-block

Musical score for Cow bell and Temple-block. The top staff shows a melodic line with a repeat sign. The bottom staff shows a rhythmic line with a wavy line above it. A 'fade' instruction is written at the end of the piece.

16

African ago-go (in G)

Musical score for African ago-go (in G). It features a melodic line starting with a forte (f) dynamic, a 'Tam-tam' section with a crescendo (cresc.) dynamic, and a rhythmic line with a fortissimo (ff) dynamic.

Musical score for various percussion instruments. The top staff includes Cym. (Cymbal) and Synpuls. The middle staff includes Gongs, Vib (Vibraphone), and Moog dr. (Moog drum). The bottom staff shows a rhythmic line.

17

(sound chart no. 3)

Musical score for Javanese Gongs. It includes a melodic line with a piano (p) dynamic, a Moog dr. section, and a rhythmic line with a mezzo-forte (mf) dynamic. The instruction 'Puls continue, no special metre' is written below the rhythmic line.

Chimes of lun

Octoban

Tam-tam

Gongs

Moog dr.

Cymbal

Freely, improvisation

Marimba

Octoban

Temple-blocks 3

18

Tam-tam

Moog dr

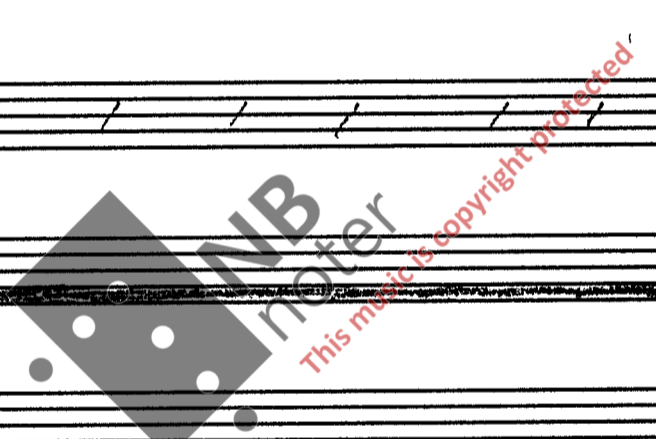
Cymbal

Tape I (Frags) DAT 10 No. 5

PP

Handwritten musical score for Marimba. The notation is on a single staff with a treble clef and a key signature of one sharp (F#). The melody consists of eighth and sixteenth notes. A small diagram of a marimba is drawn above the first few notes. The staff is followed by three empty staves.

Handwritten musical score for Octoban and Temple-Blocks. The notation is on a single staff with a treble clef. The melody features triplet markings (the number '3' is written below groups of three notes). A small diagram of a temple block is drawn above the final notes. The staff is followed by three empty staves.



Handwritten musical score for Tam-tam, gongs, Hoeg ds, and Gymbal. The notation is on a single staff with a treble clef. The melody includes a measure with a circled '19' above it. The staff is followed by three empty staves.

Handwritten initials 'AP' at the bottom right of the page.

Marimba

Octoban

Temple-blocks