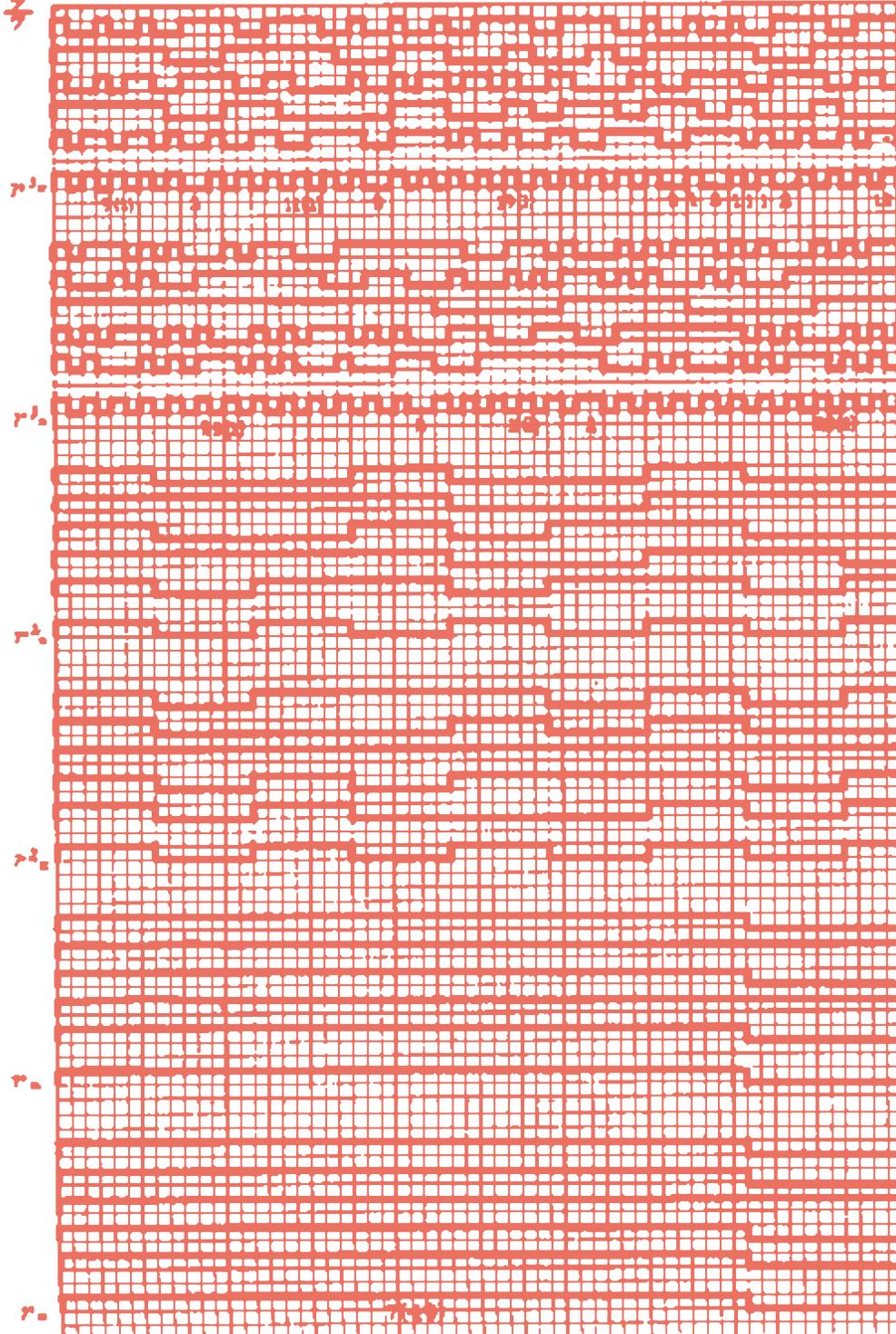


Music As Living Matter

Cube of Quintinomial



396

TECHNOLOGY OF ART PRODUCTION

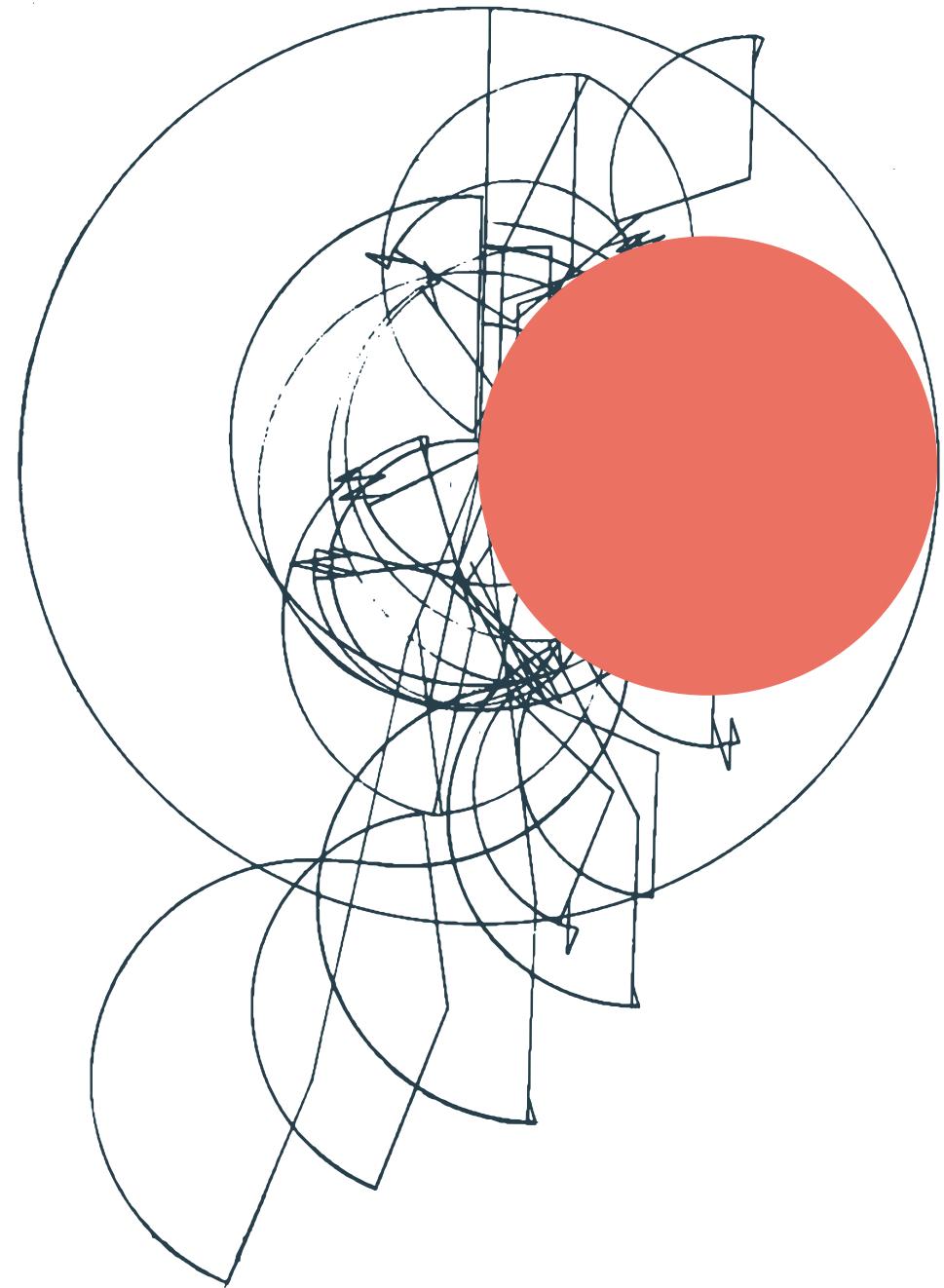


Figure 31. Linear design 36/36 series.



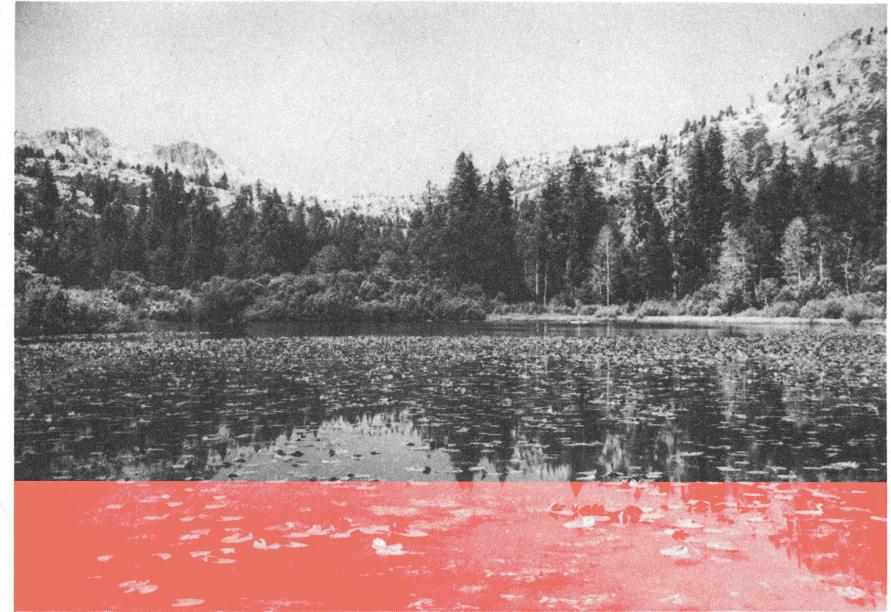
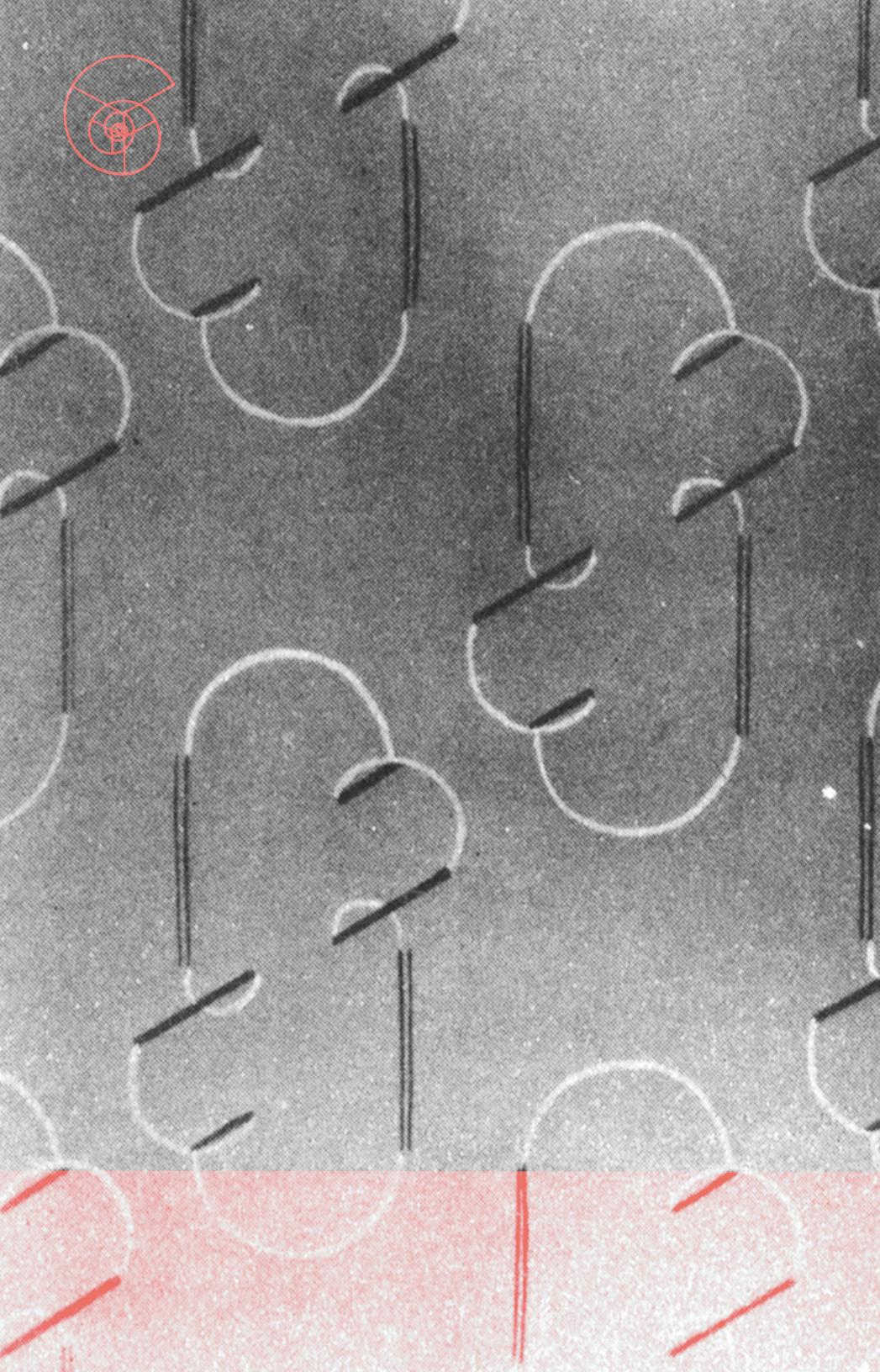
Music is merely a mechanism simulating organic existence.
Music makes one believe it is alive because it moves and acts like living matter.

Every work of art conceived and executed by [human] is a modified (often merely reflected) counterpart of actuality.

Music, for example, is a [human]-made illusion of actuality, and so is every art.

**Thunder, animal sounds,
and the echo are as much
the sources of music as all the
inorganic and organic forms that
provide the structural patterns
for musical intonation and
continuity. Lungs and vocal
cords, reeds and animal skins,
as well as electricity, are the
media (sound-producing devices)
of the art of music;
and the sense of hearing
is the instrument of the art.**





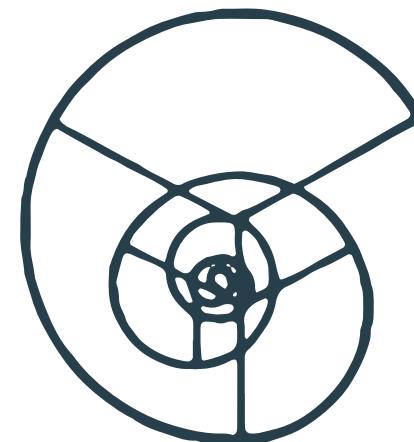
RESTFULNESS AND RESTLESSNESS IN A LANDSCAPE
As effected by a sine-curve and a complex curve.



SCHILLINGER'S MUSIC THEORY :

Joseph Schillinger was a contemporary of Leon Theremin and worked to develop a system of musical composition based on mathematics that can be considered a precursor to computer-based algorithmic composition.

His theories of rhythm included the arrangement of polyrhythmic motives from combining rhythmic “generators” occurring at integer-related durations. His famous students included composer George Gershwin.





True art, which can be defined as natural and organic art, has a general appeal and does not require any explanations.



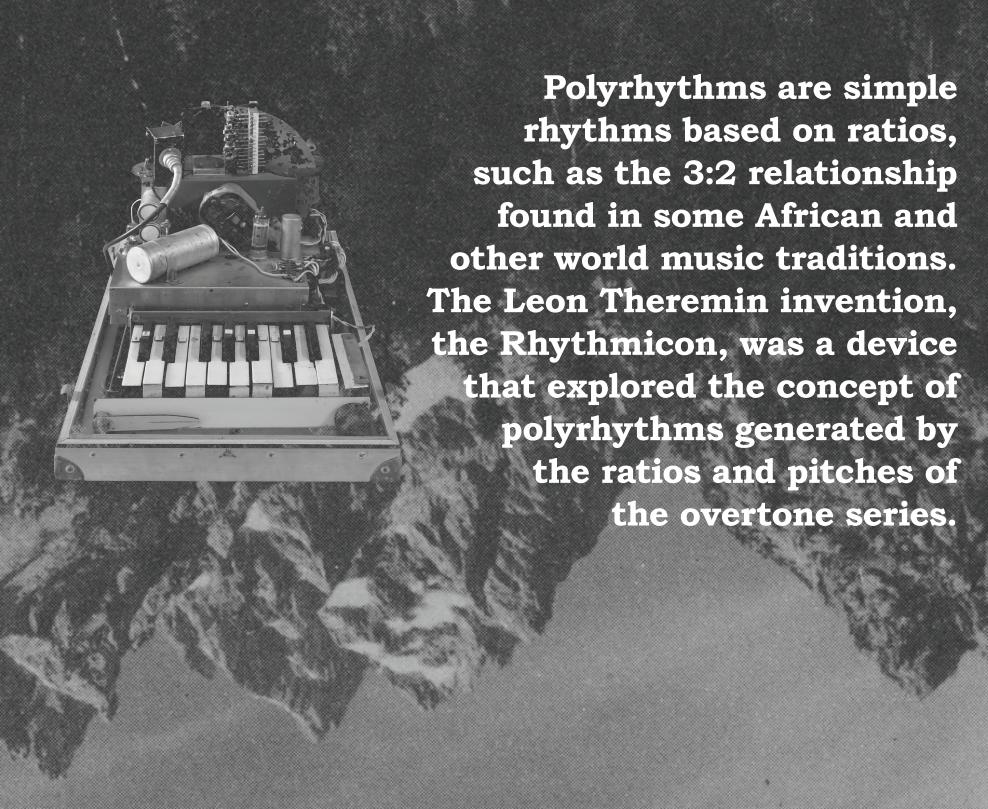
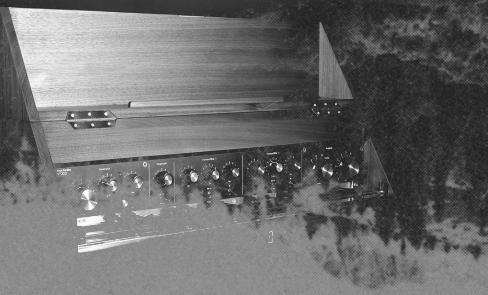
Just as birds' plumage, their singing, the murmur of a brook, leaves, mountains, glaciers, waterfalls, sunsets, and sunrises do not require any explanation.

**REGULATORY
IS THE LAW OF
SYSTEM**

Polyrhythms are simple rhythms based on ratios, such as the 3:2 relationship found in some African and other world music traditions. The Leon Theremin invention, the Rhythmicon, was a device that explored the concept of polyrhythms generated by the ratios and pitches of the overtone series.



The Trautonium was the most famous instrument that used subharmonics for sound generation. Featuring a resonant filter, it was a precursor to the subtractive synthesizer.





Aesthetic satisfaction comes mainly from the sensation of being off balance, but in an obvious relation to balance.

The element of the unknown stimulates curiosity, and the process of associating it with the known produces a feeling of satisfaction.



Courtesy National Geographic Magazine and Buffalo Museum of Science

Figure 4. Snowflakes are all based on $\frac{6}{6}$ series.

Ratios of π $\frac{11\pi}{12} < 330^\circ$

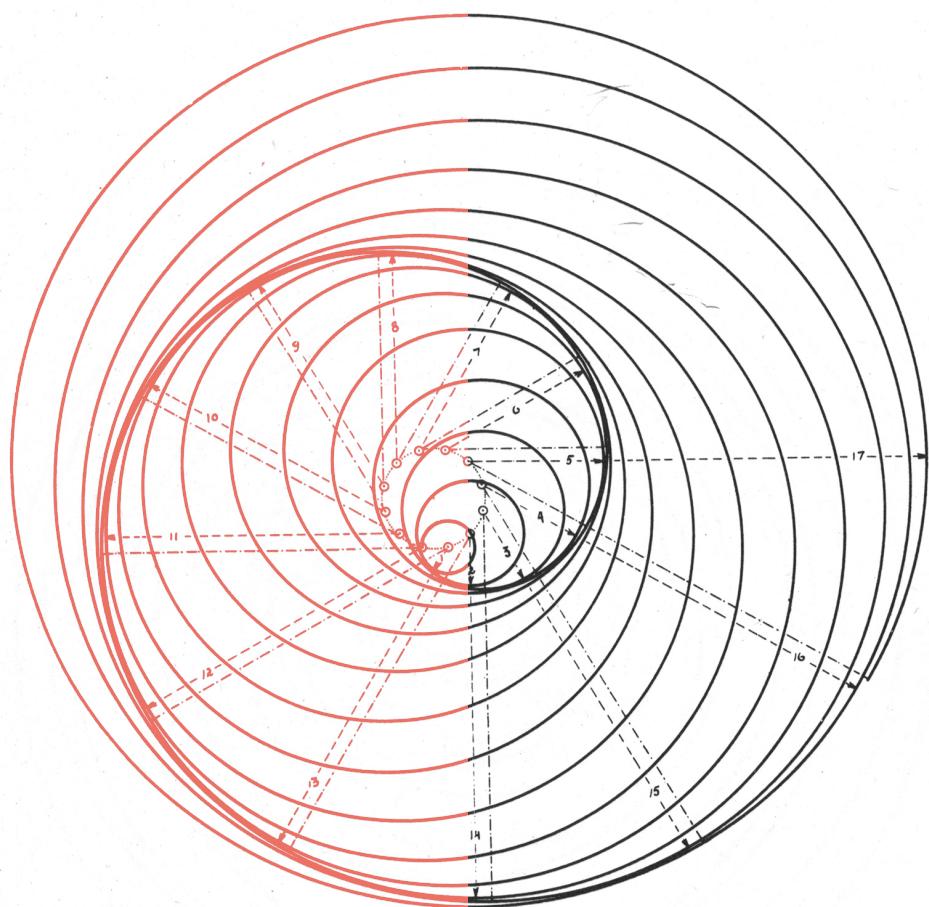
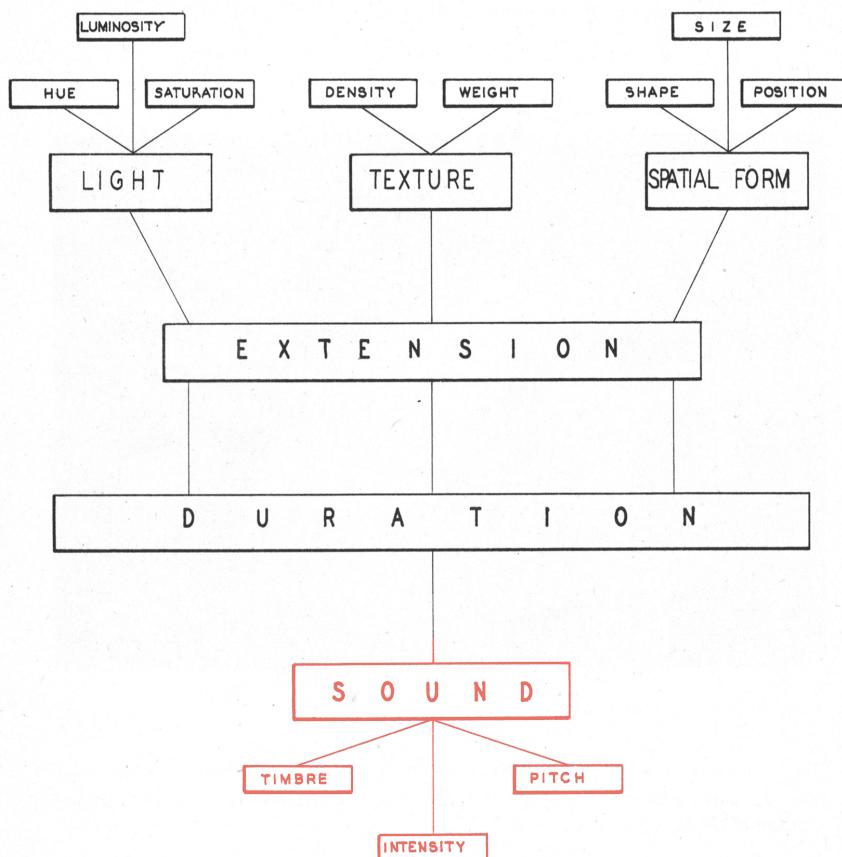


Figure 28. 330° arc moving in a constant clockwise direction.

Components of a combined kinetic art form.



Words and imagery collected from
 "The Mathematical Basis of the Arts" by Joseph Schillinger,
 whose theories were inspiration for the creation of Subharmonicon.

