

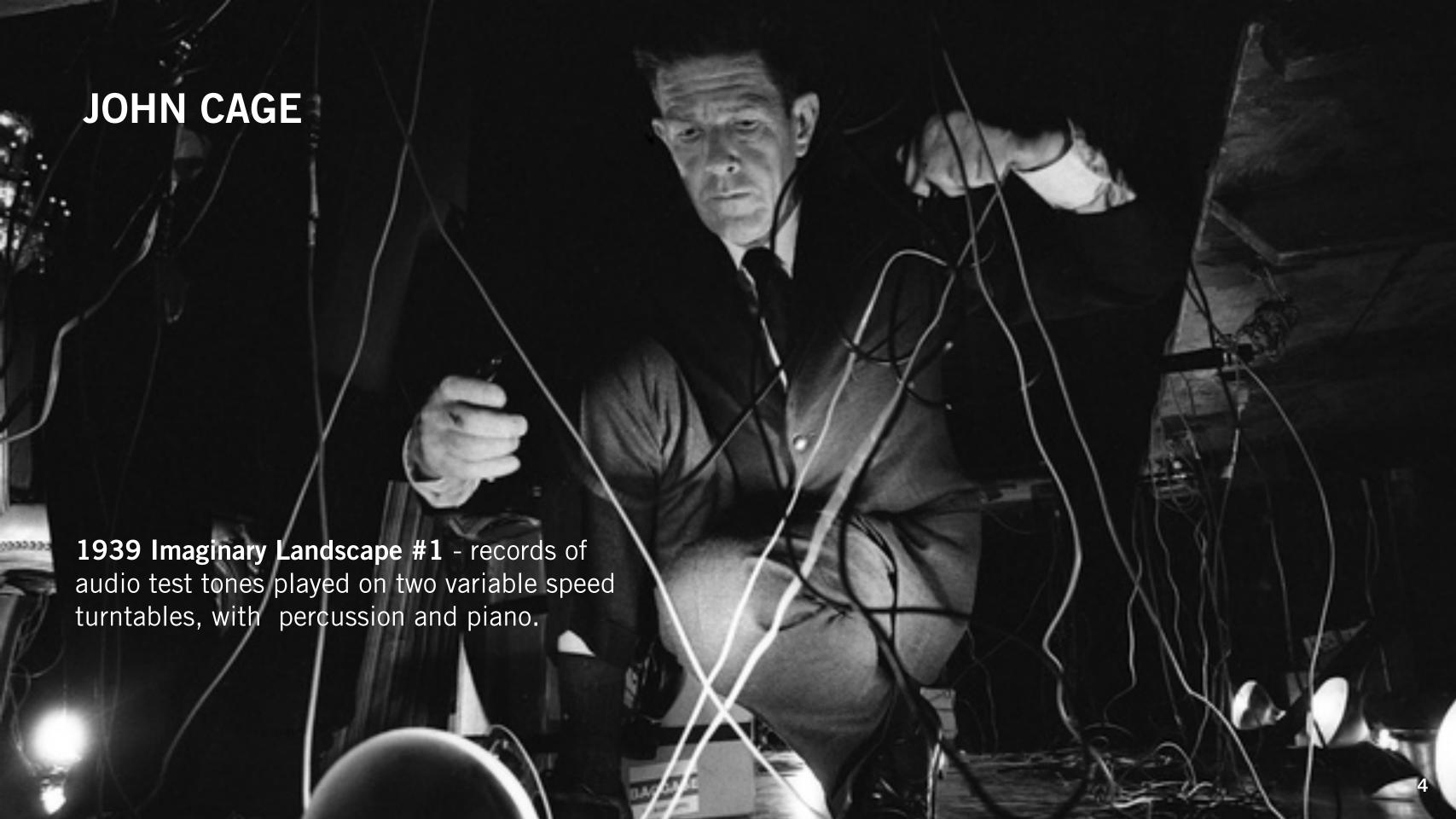


CYLINDER VS. DISC

(PHONOGRAPH VS. GRAMOPHONE)

























DJ KOOL HERC

mid 70s: isolating the "break" and scratching techniques





DIGITAL TURNTABLES

a turntable "controller"

some use 'signal records'

scratching data





Myriam Bleau / Soft revolvers





Christian Marclay





Electricity

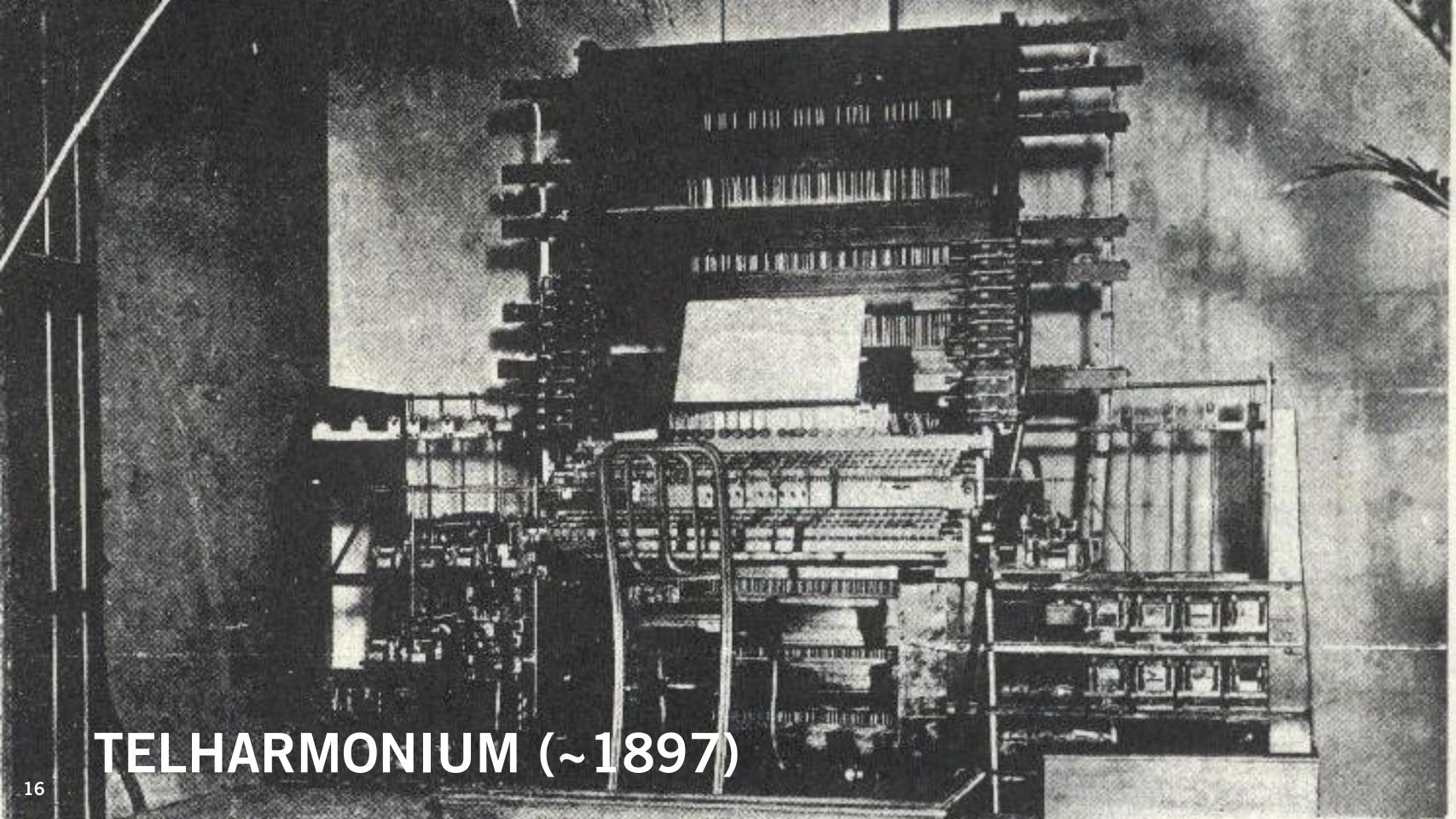
Recording systems





Electronic Instruments



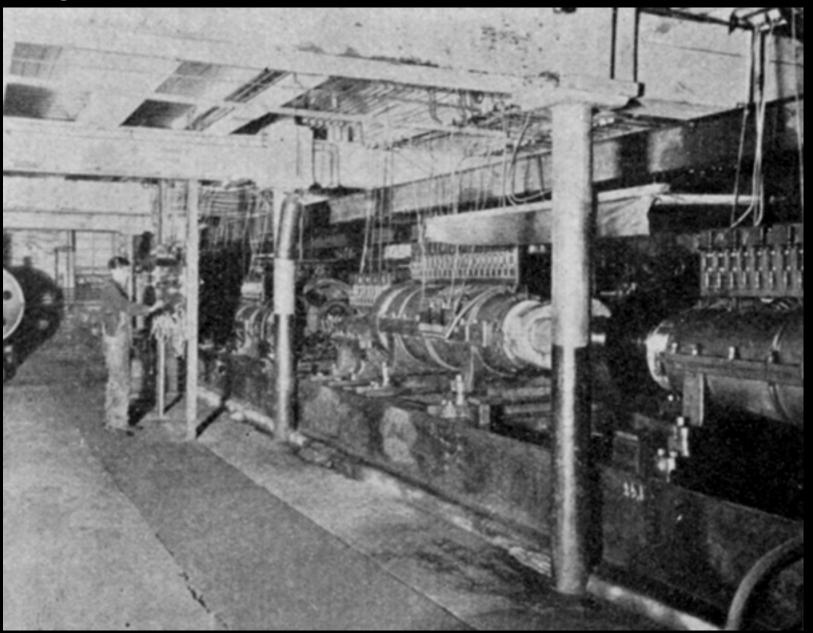


Telharmonium (1897)

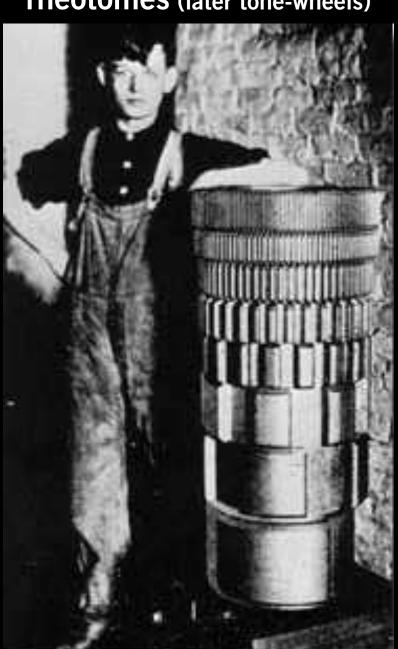
Thaddeus Cahill



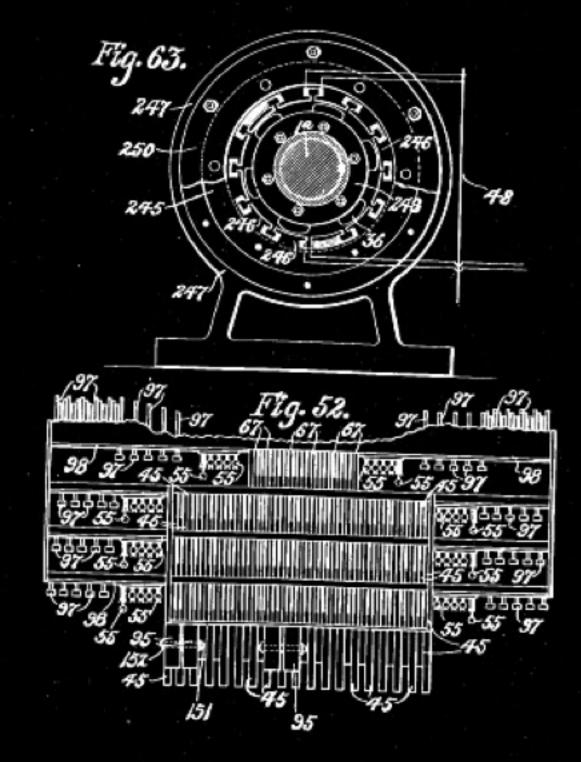


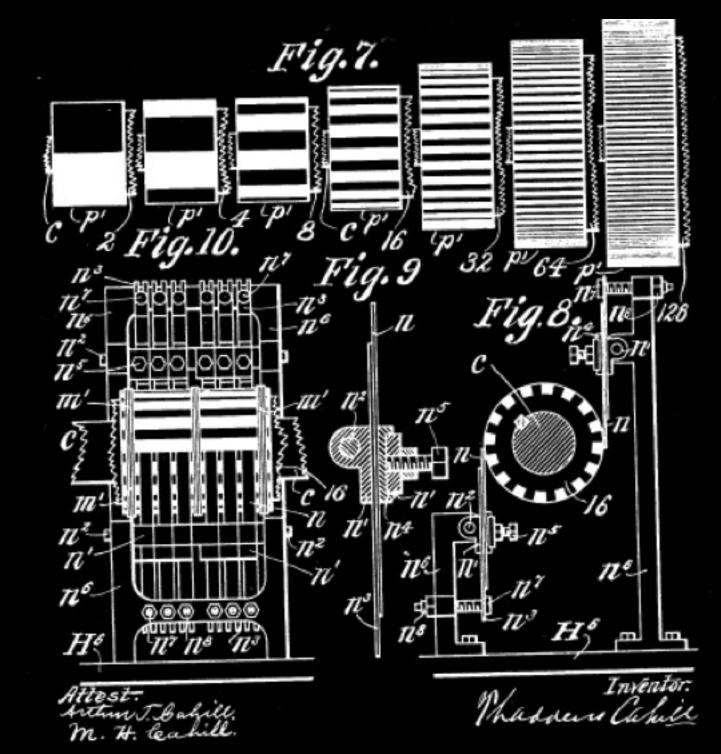


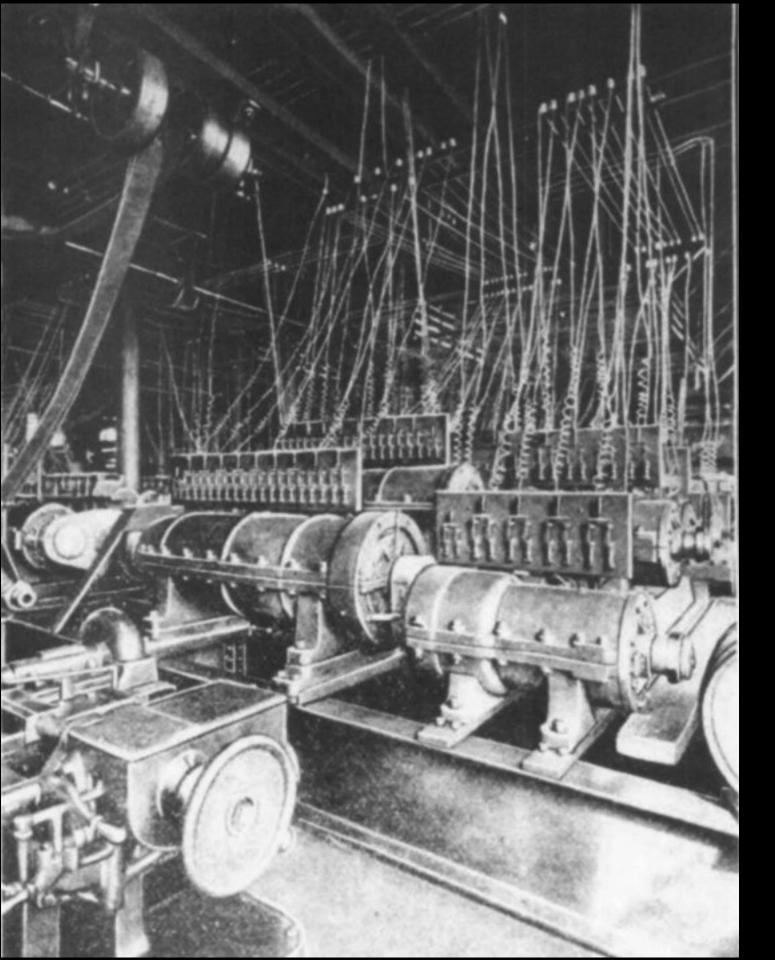
Additive Synthesis rheotomes (later tone-wheels)



Telharmonium







Telharmonium

Additive Synthesis

Music transmitted over wires

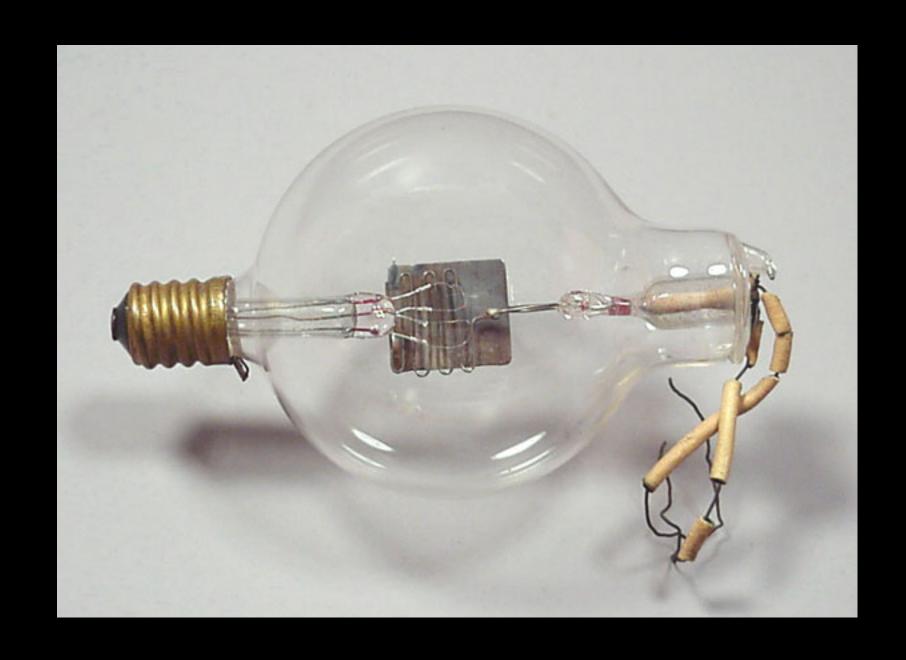
Rudimentary Loudspeakers

First use of the term "Synthesizing"

670 KW of power (a lot!)

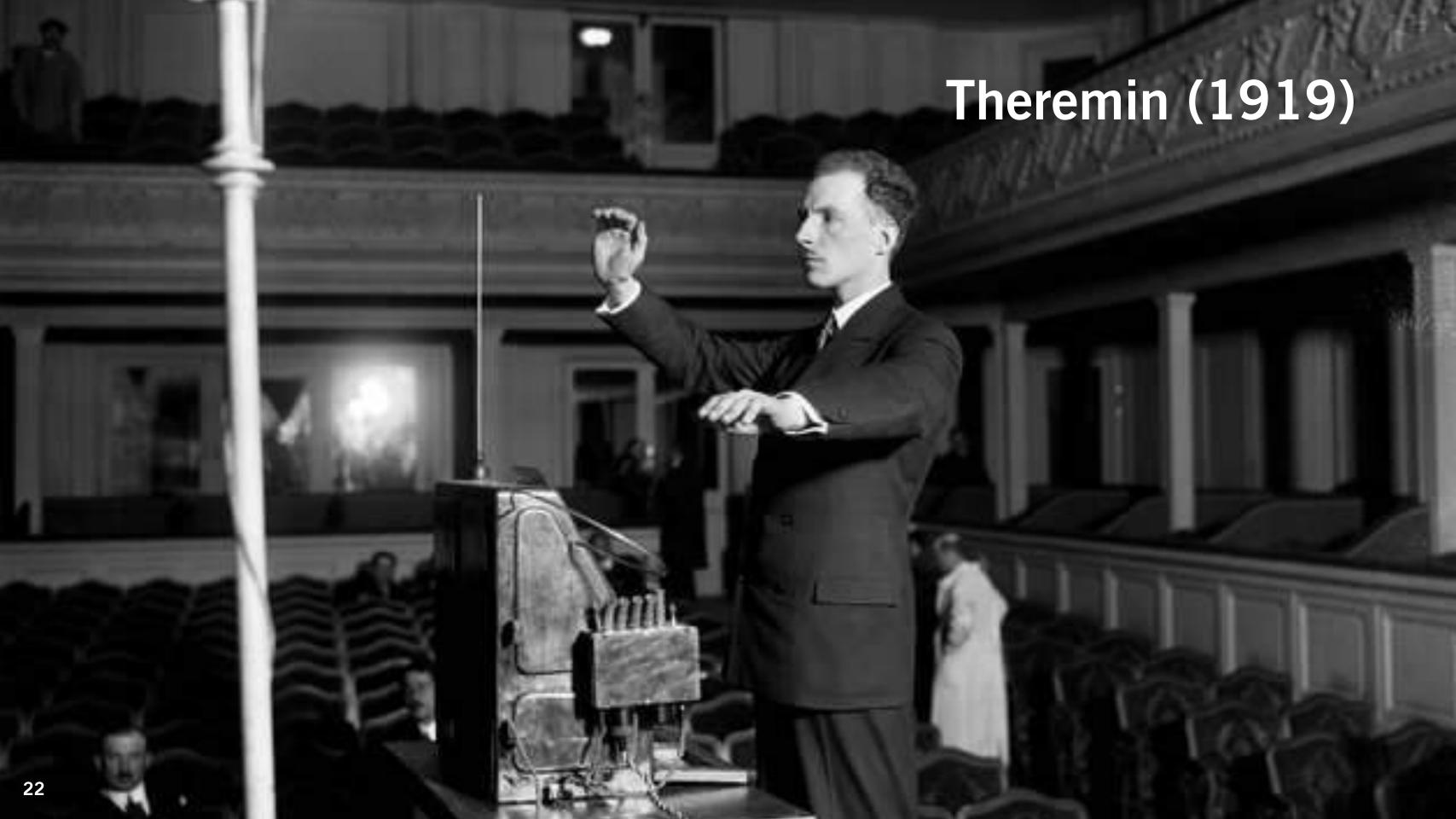
Polyphonic vs. Monophonic

The Vacuum Tube



Lee De Forrest's developments of Ambrose Fleming's vacuum tube (1906), allowed for amplification of electronic signals.

The device, called an Audion, enabled a new generation of electronic instruments.



Léon Theremin

1896 - born

1922 - theremin demonstrated in Russia for Lenin

1927 - moved to NY

1928 - played theremin at Carnegie Hall

1929 - RCA manufactures 500 theremins

1938 - returned to the Russia, mysterious circumstances.

1947 - worked on espionage technologies

1954 - Bob Moog begins making theremin kits

1966 - taught Theremin at Moscow Conservatory.

1991 - Travelled to the US at age 95.

