Spaces

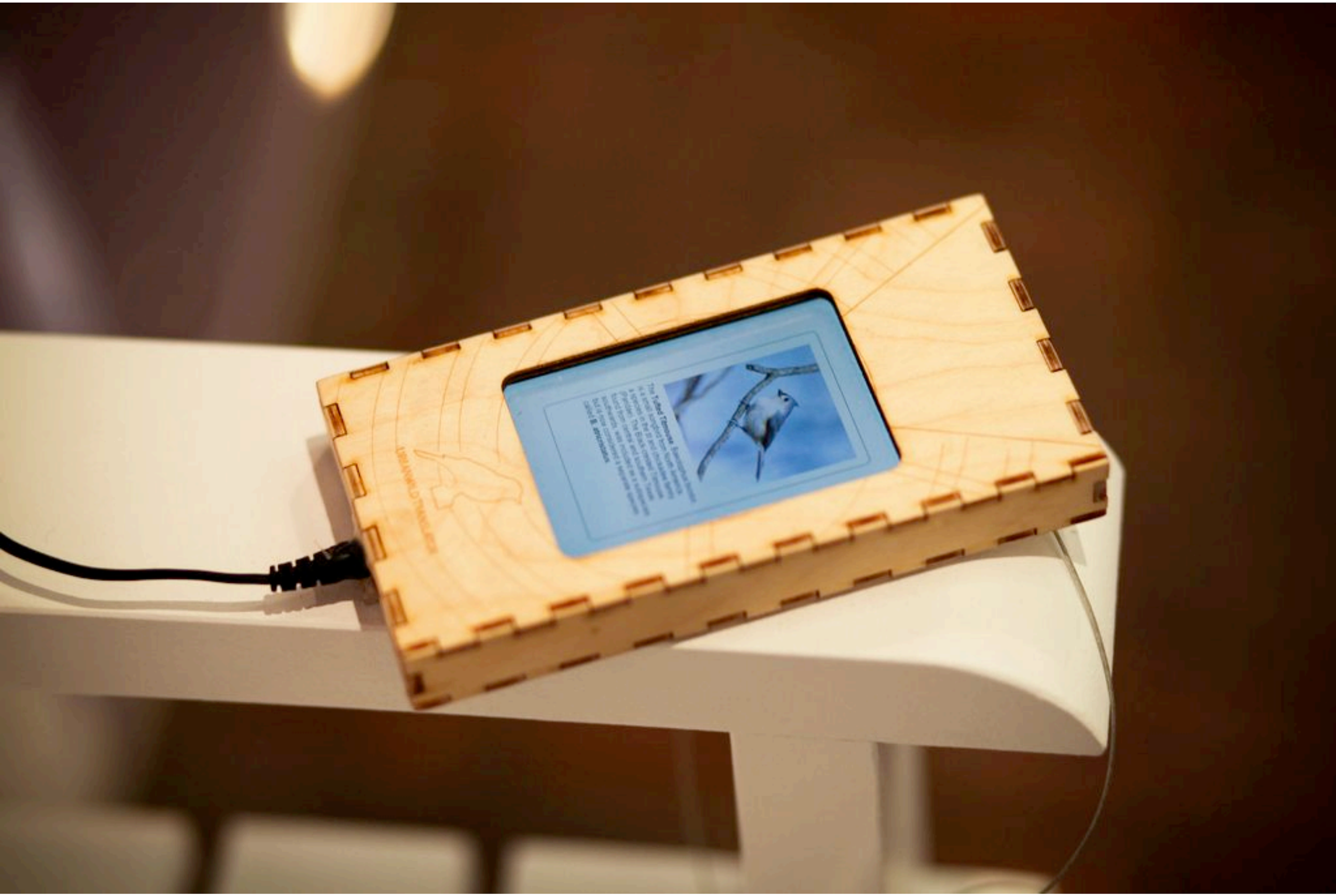
MACHINES

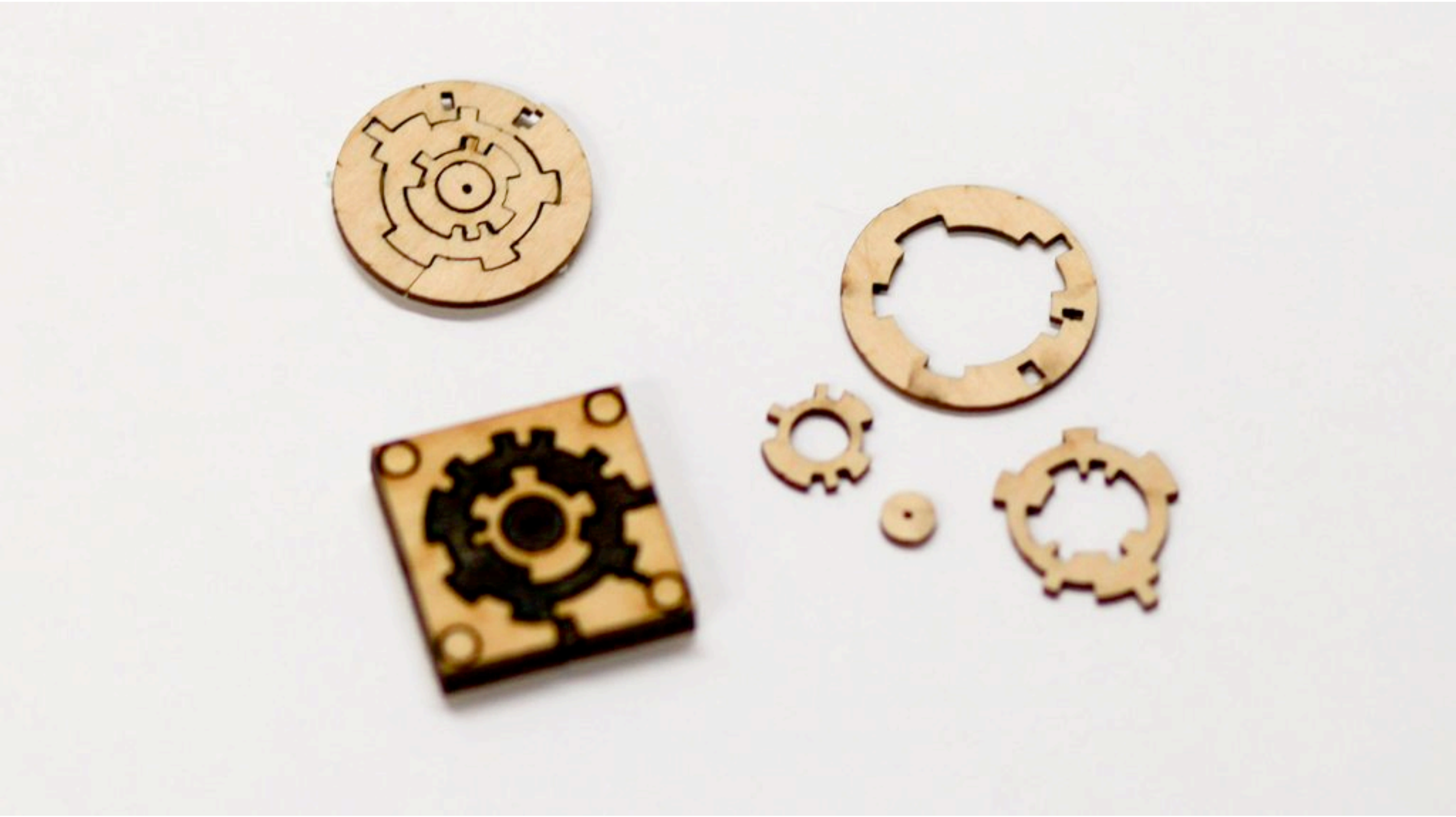
Jb Labrune - 2014

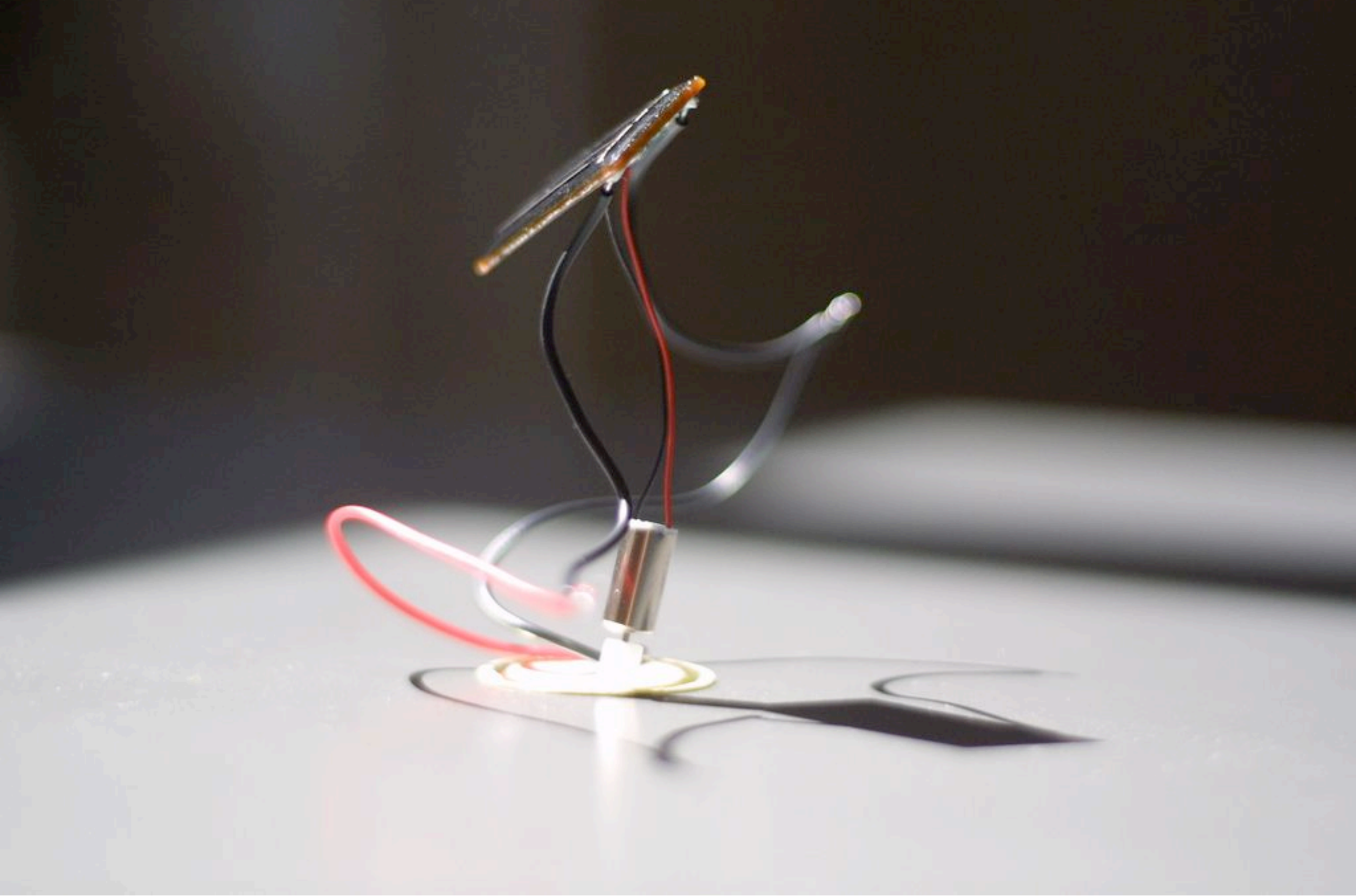
People

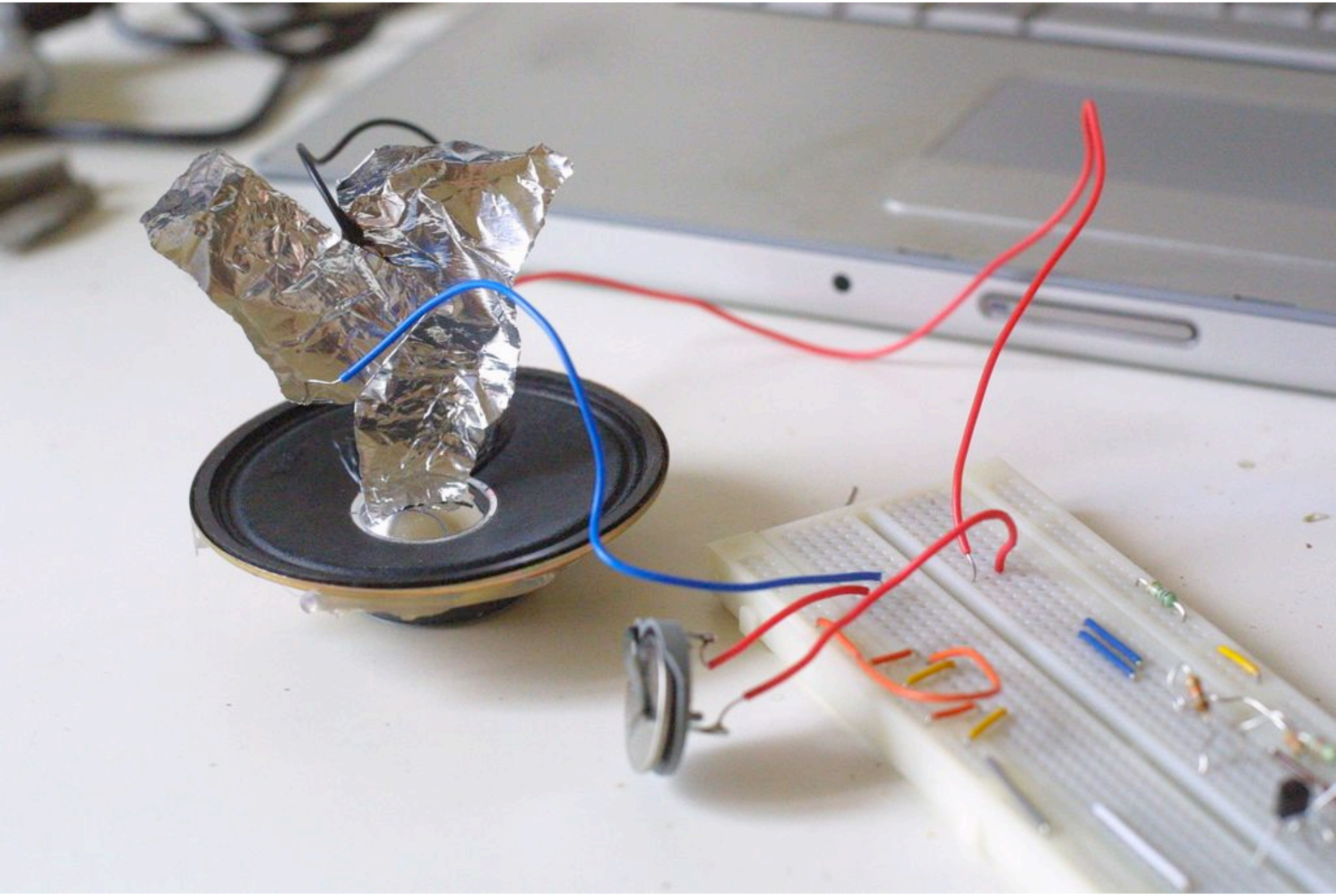
PAF

ORGANIC MACHINES









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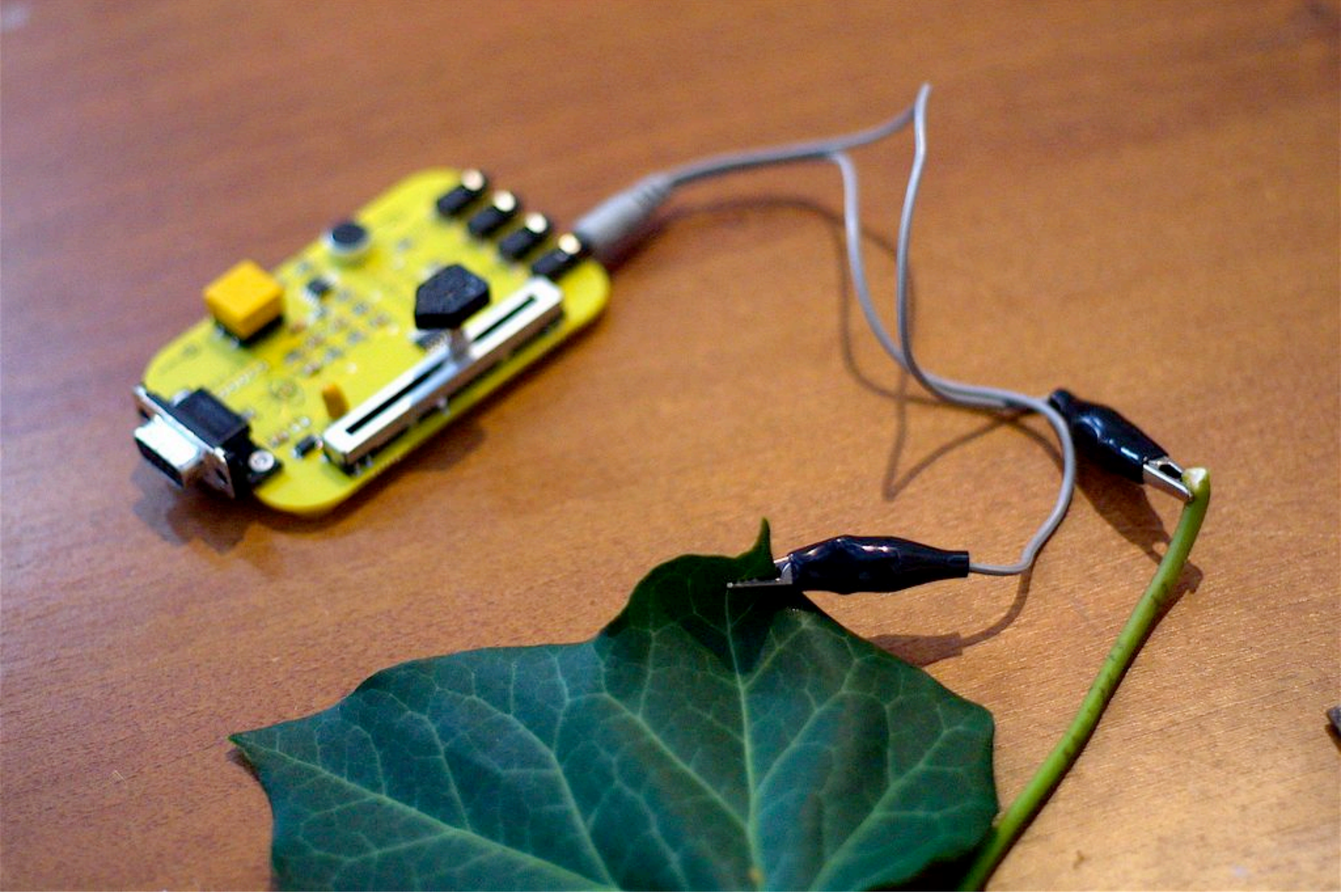

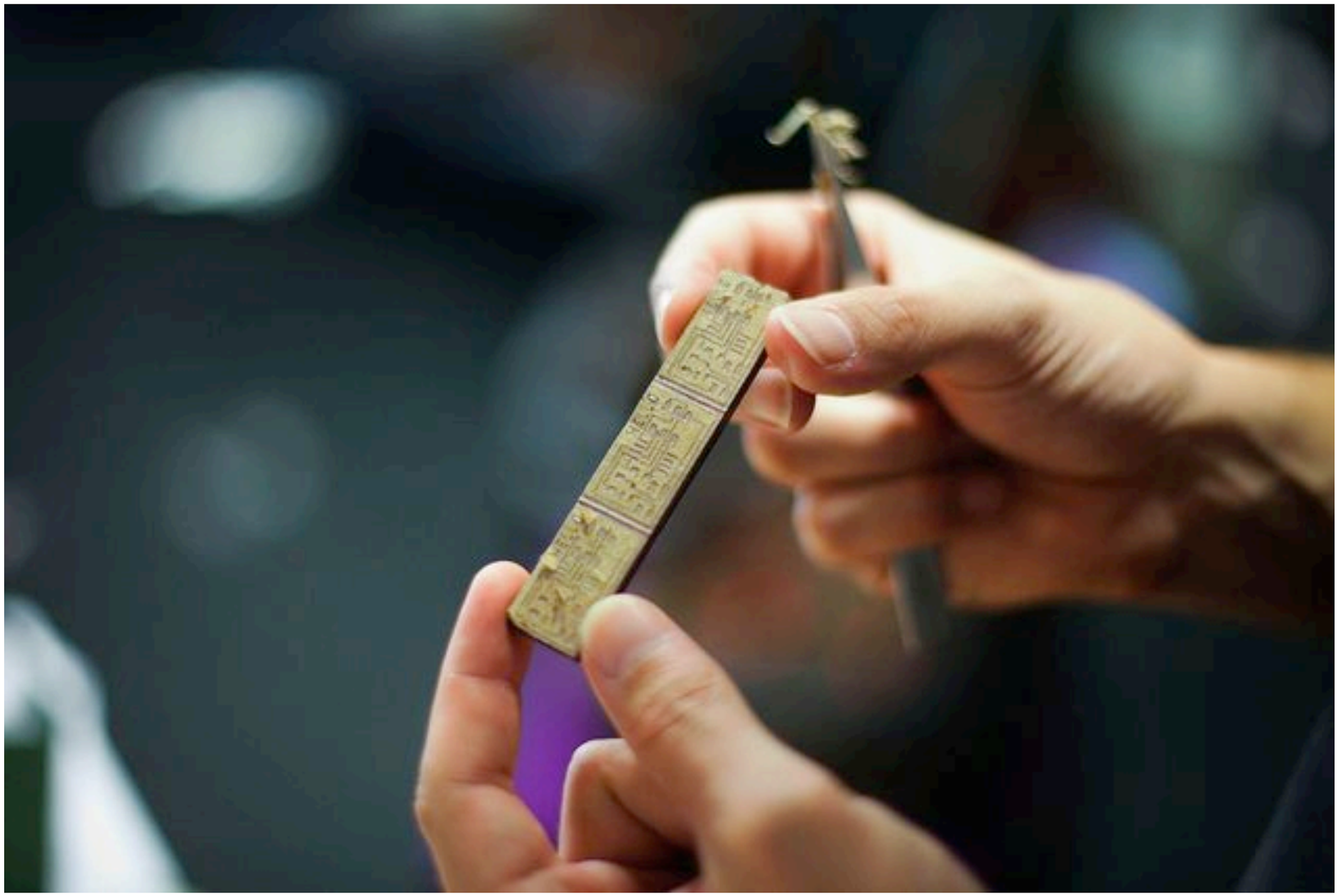

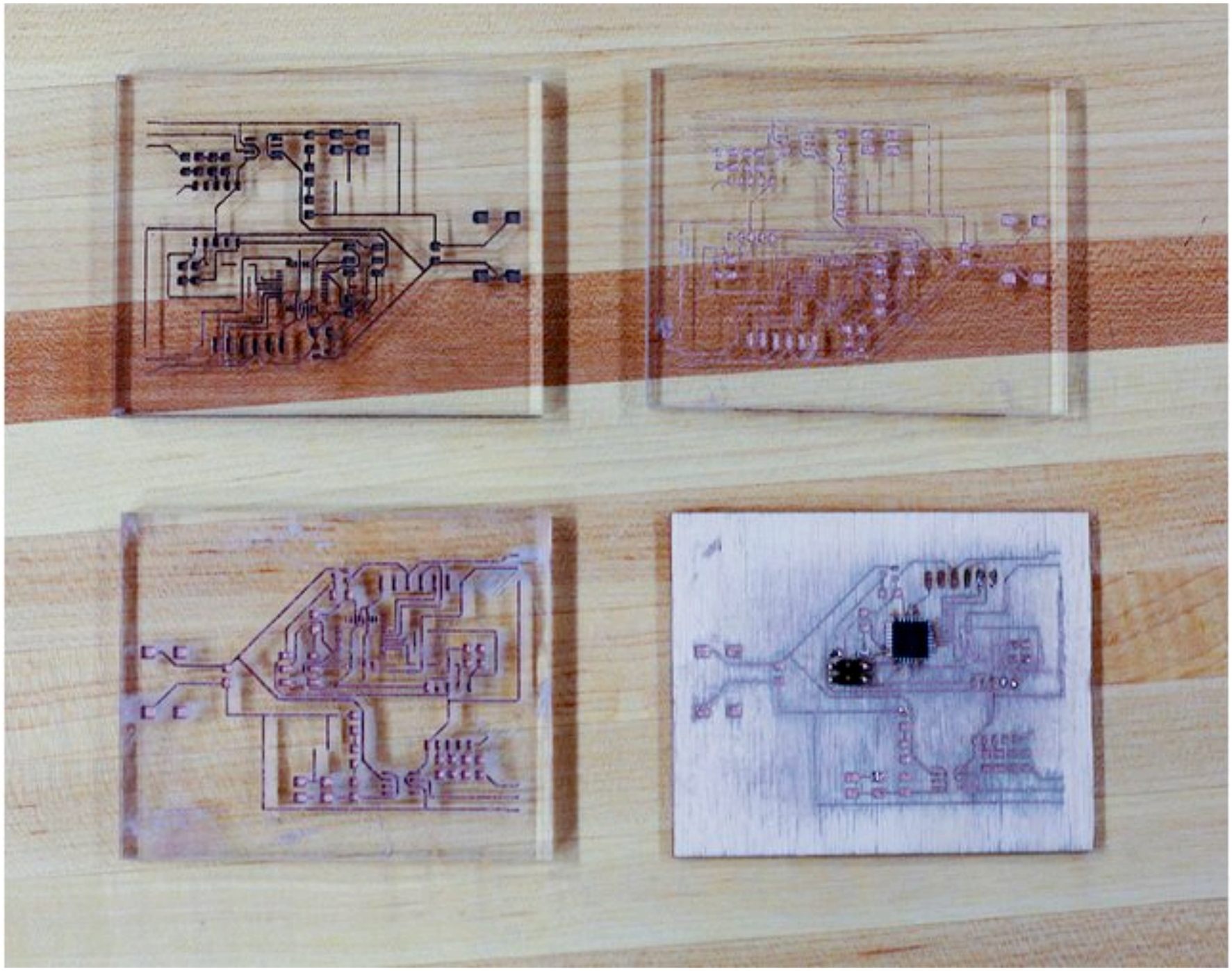

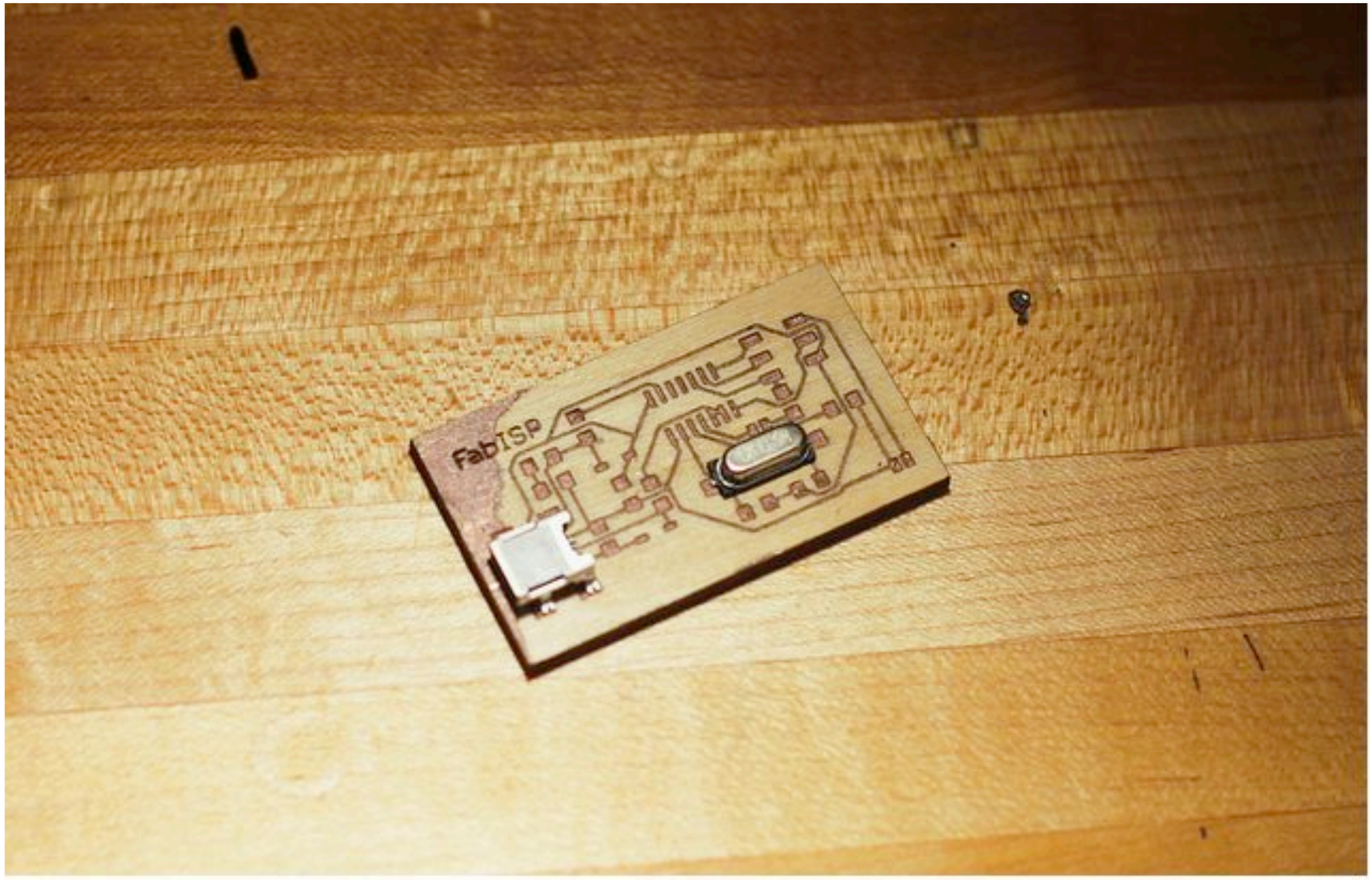
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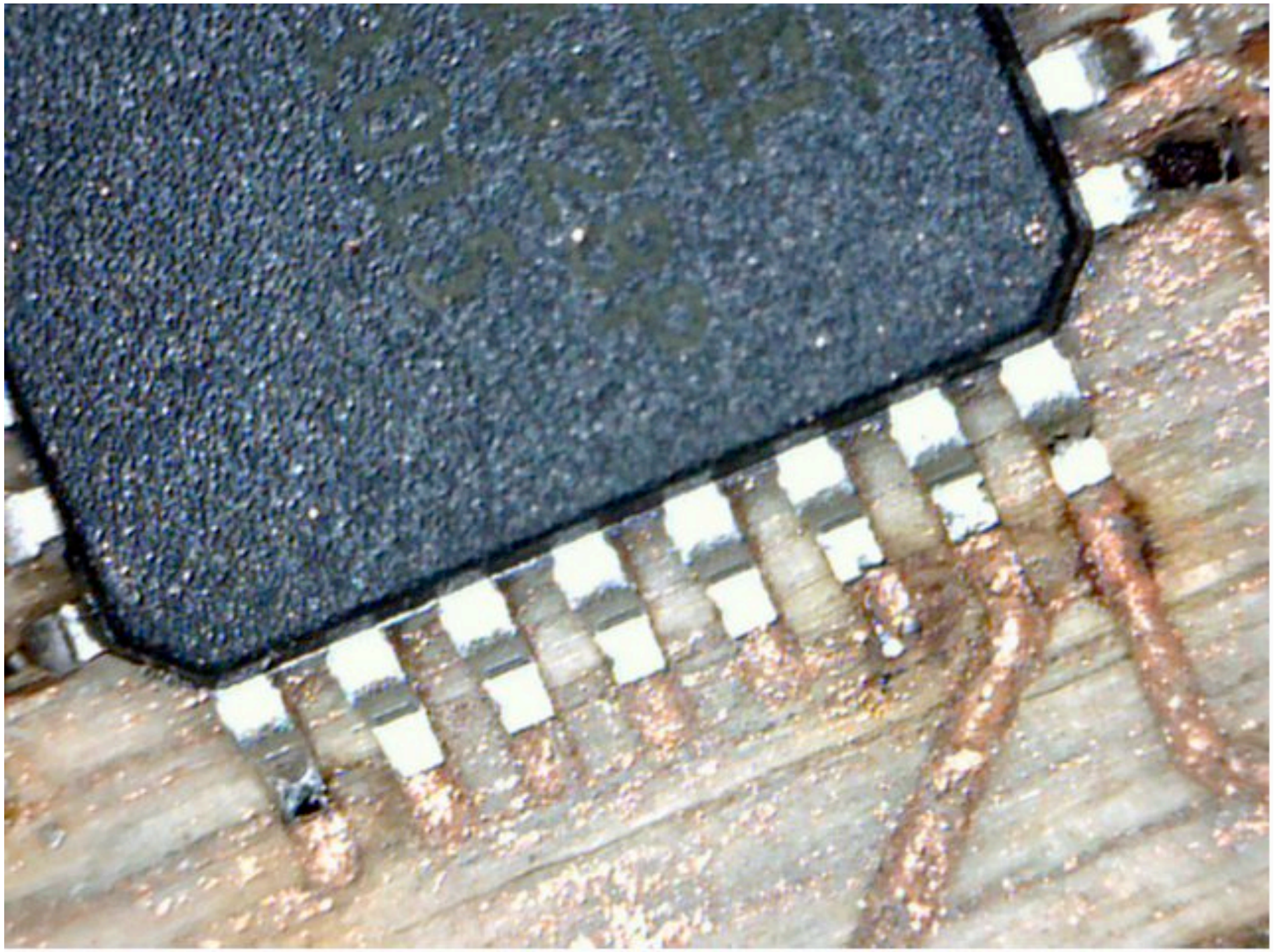
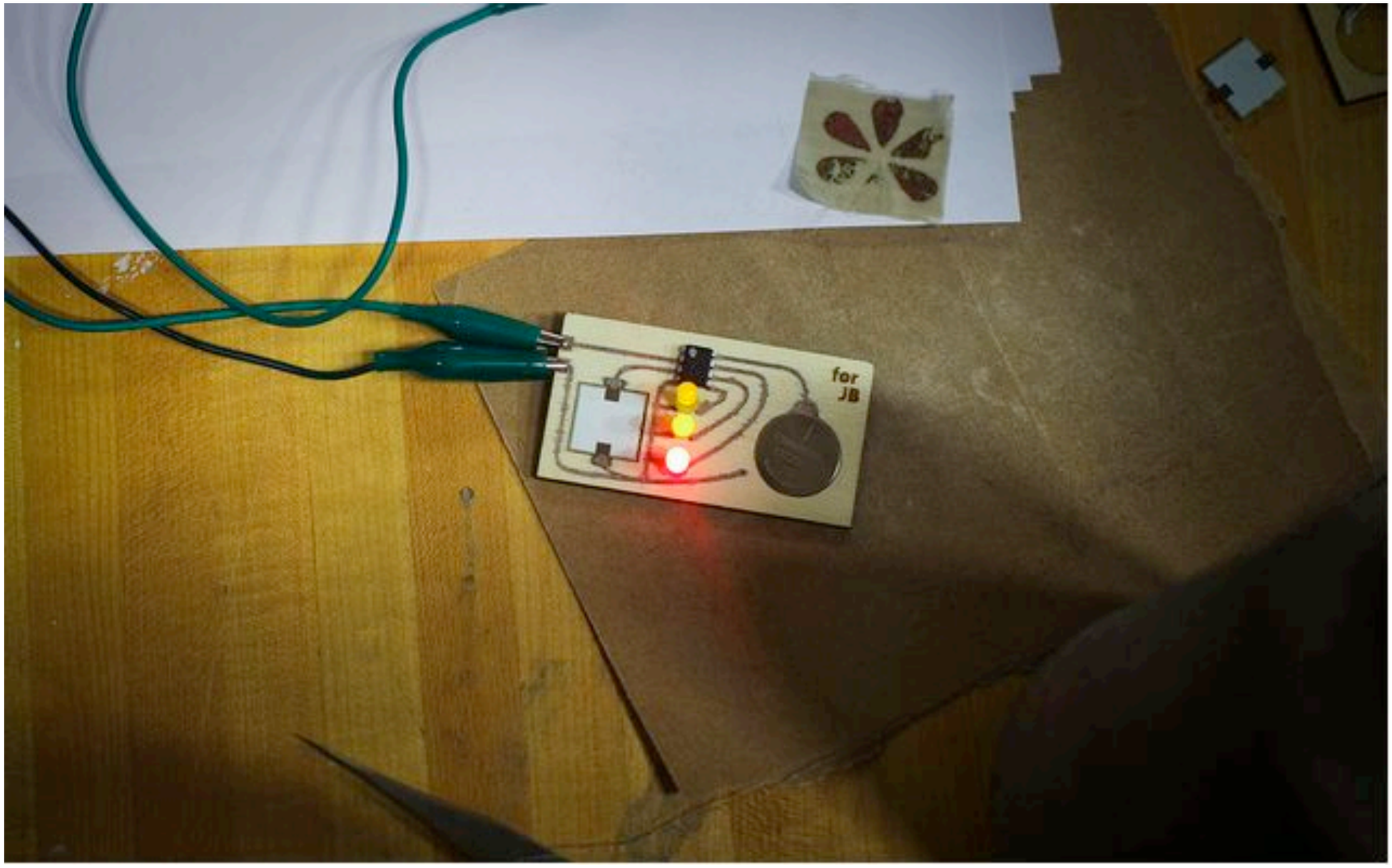


AtMega 328 QFN Detail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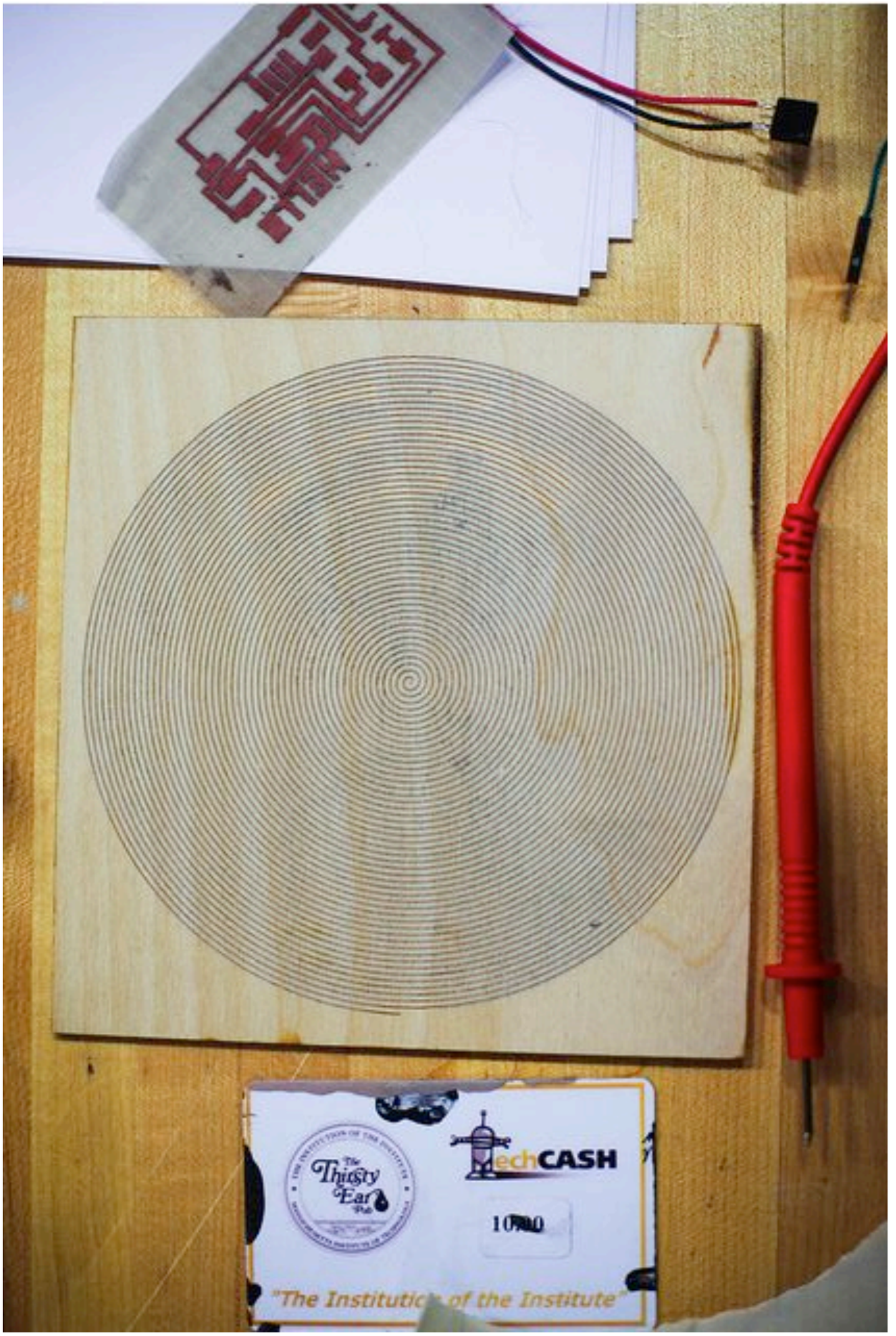
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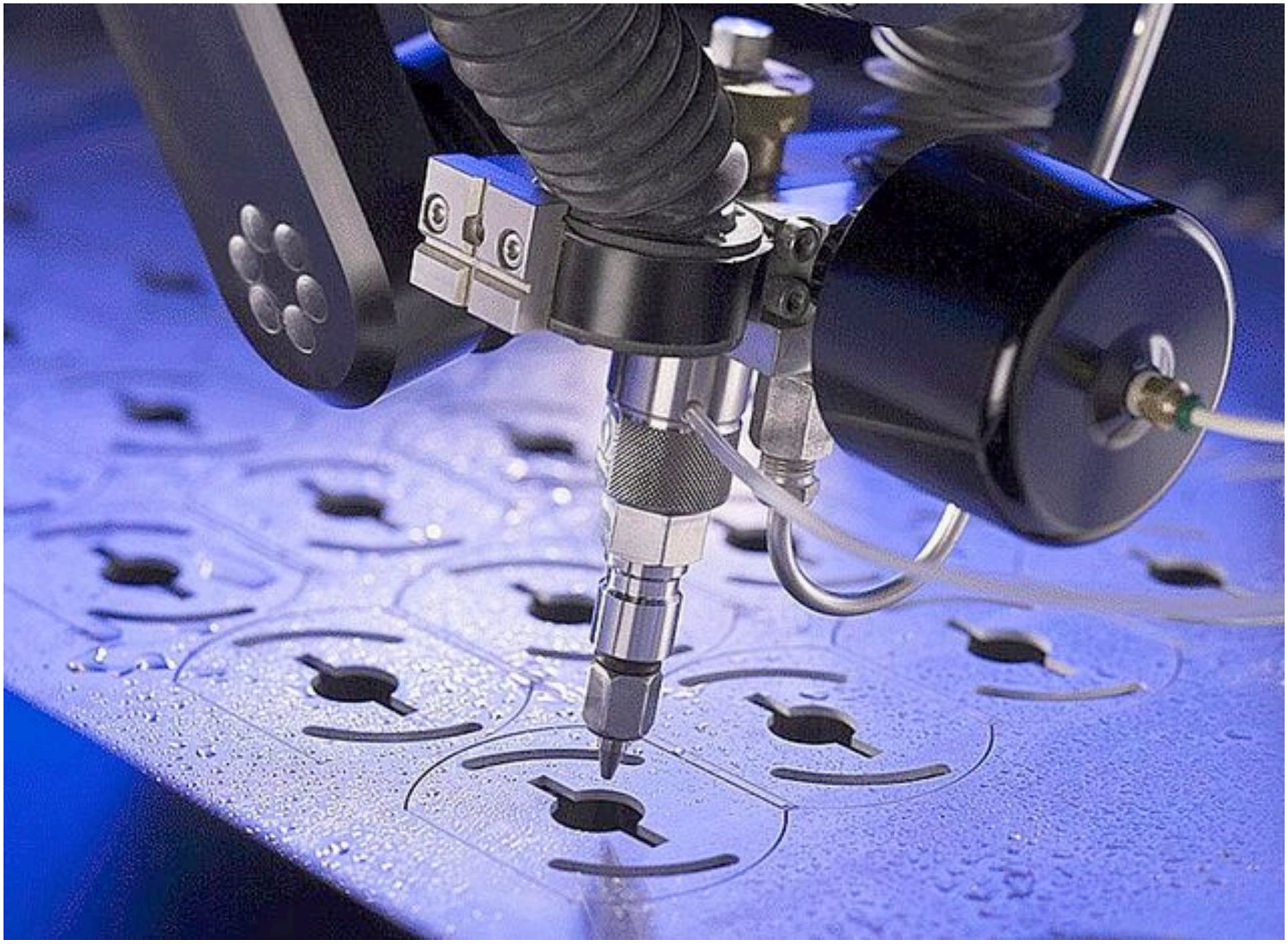
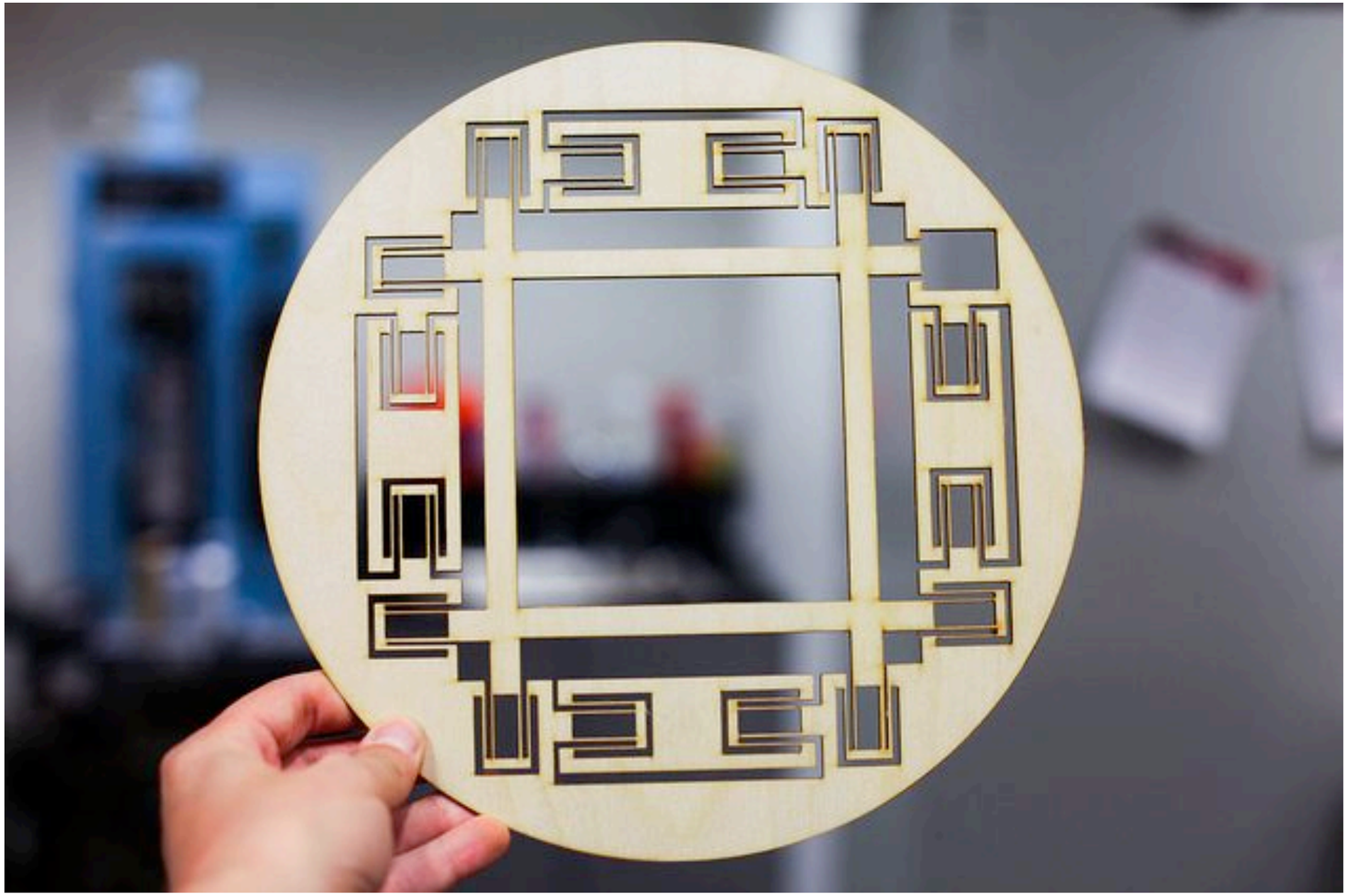
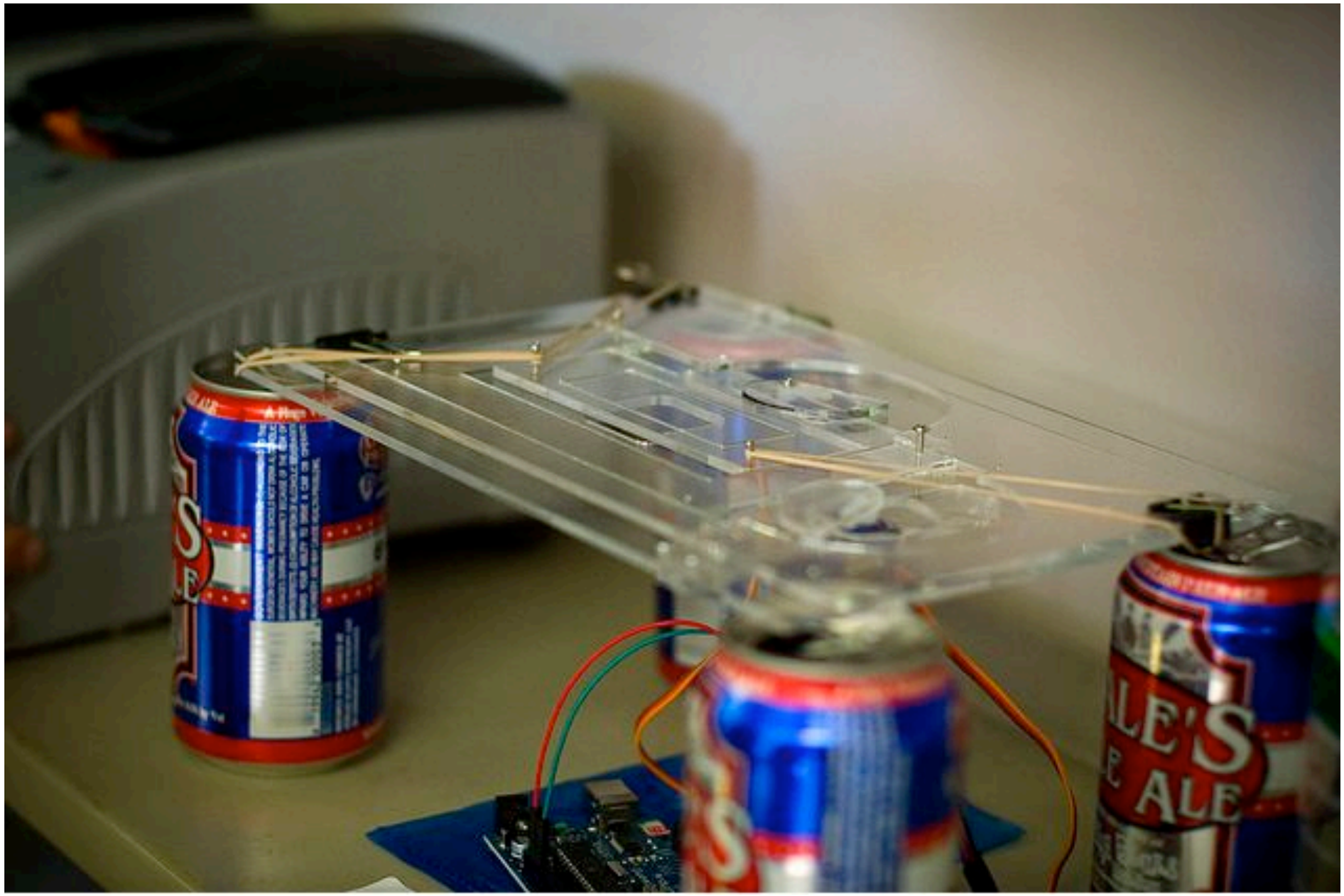
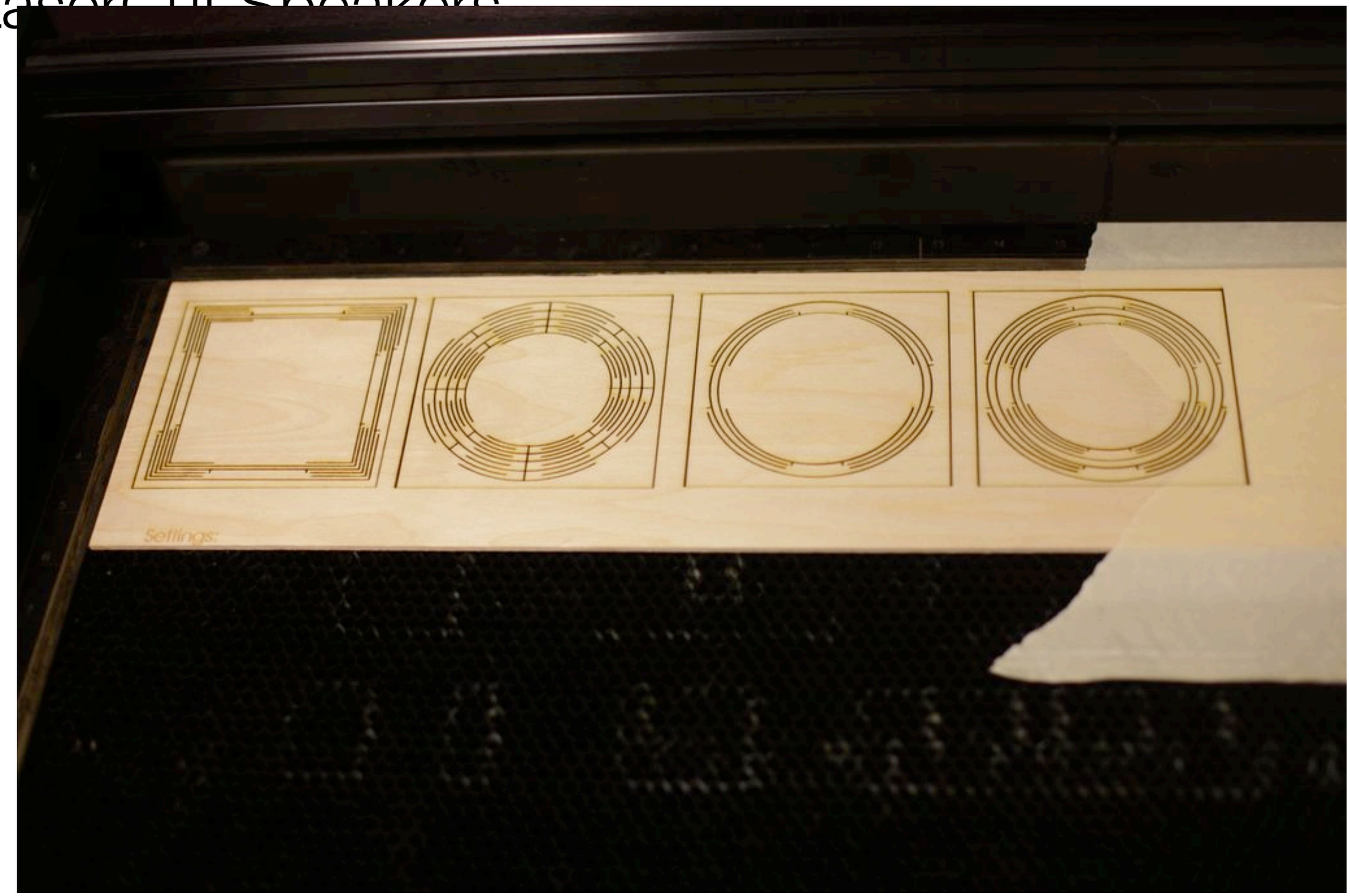


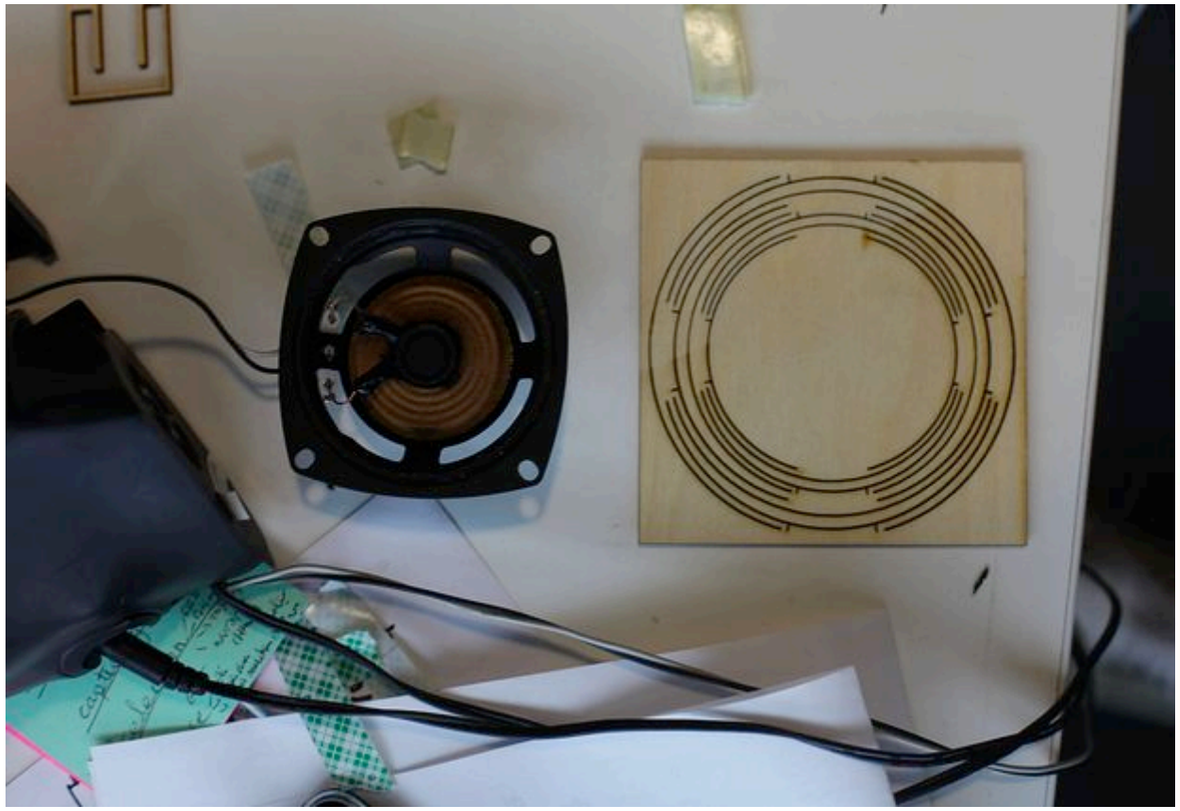


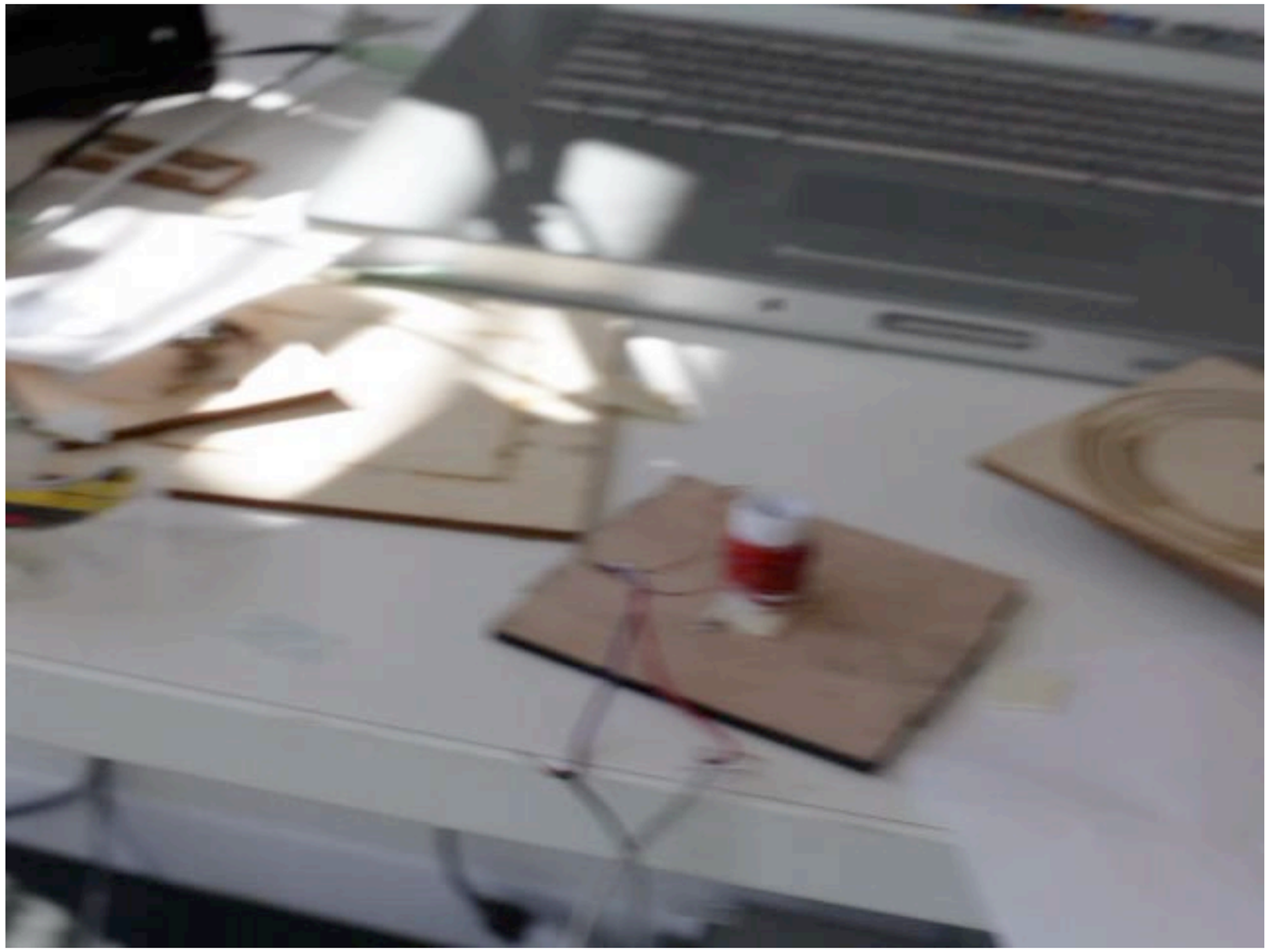

ALE'S
ALE

GREENFUEL
TECHNOLOGIES CORPORATION

LaserCut Speakers



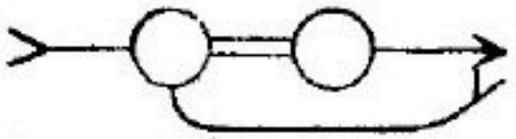
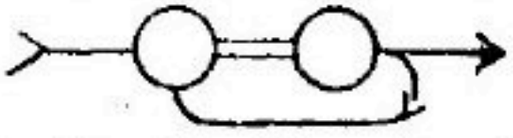




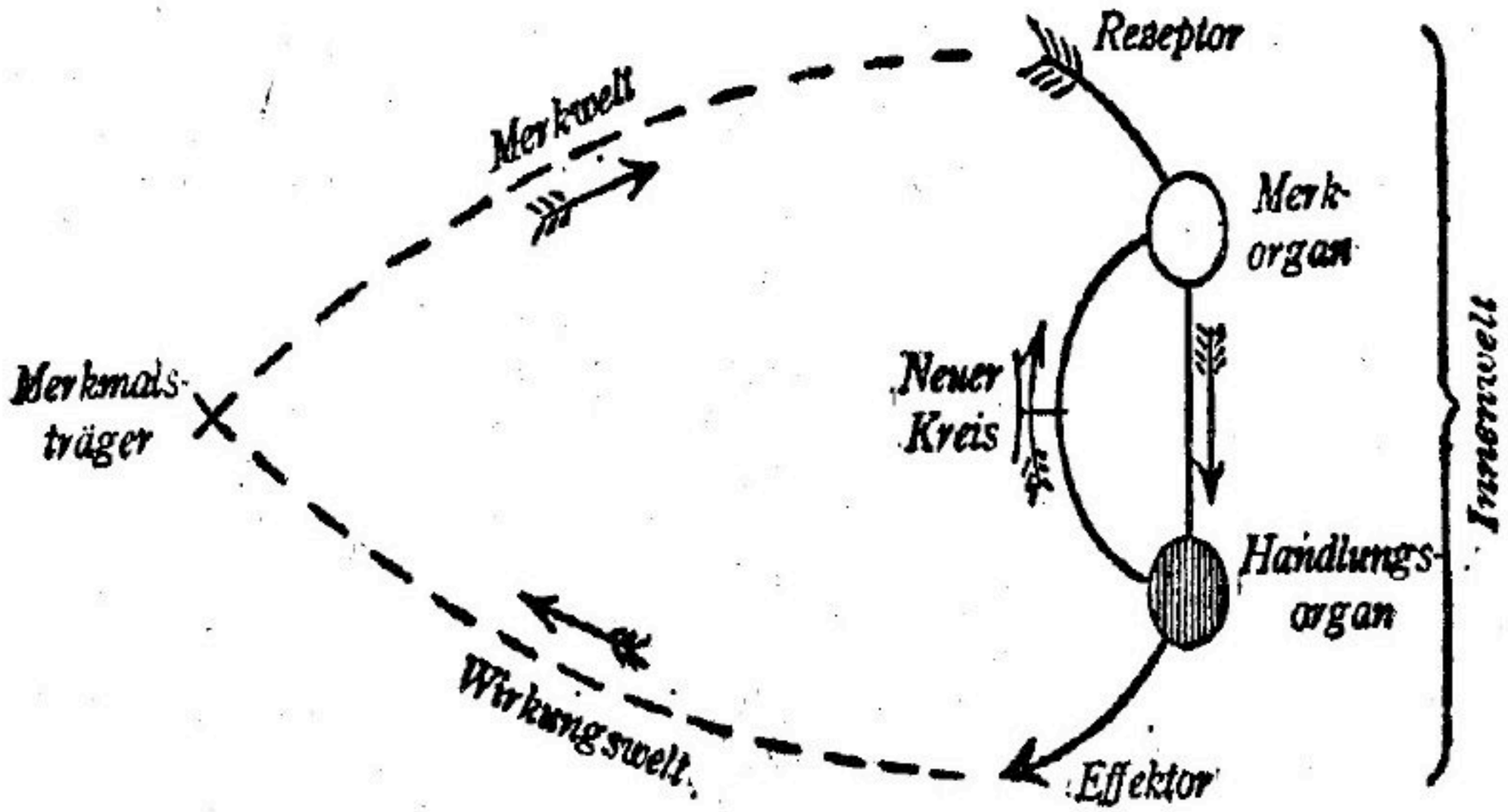
1.

NATURE

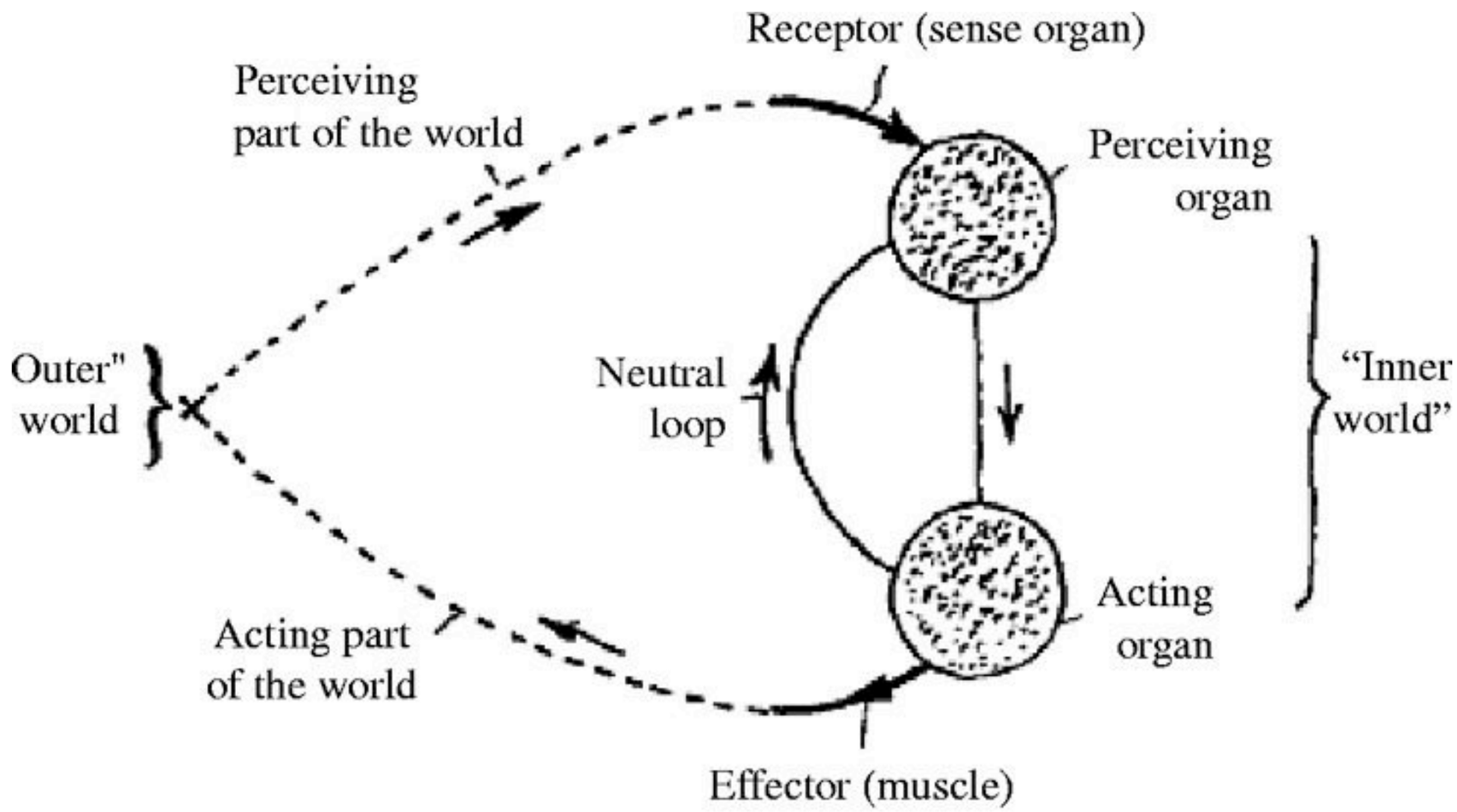
Jakob von Uexküll

sind zwei Fälle zu unterscheiden: entweder wird
Effektorenmuskeln durch besondere sensible Nerve
beifolgende Schema zeigt.  Oder es
torischen Nerven übertragene Erregung durch
Rezeptoren zum Teil aufgefangen und dem N
 Diese Rezeptoren bilden das zentra
Helmholtz, das anatomisch noch völlig im Dunkeln

FEEDBACK


Reseptor
Merkwelt
Merk-
organ
Merkmals-
träger
Neuer
Kreis
Innenwelt
Handlungs-
organ
Wirkungswelt
Effektor

Figur 4.



Source: Re-drawn by the late Professor Winfired Oppelt, from the originals
©1984 IEEE

UMGEBUNG

UMWELT

13. Das gleiche Subjekt als Objekt in verschiedenen Umwelten

Abb. 52 Förster und Eiche.

Abb. 53 Mädchen und Eiche.

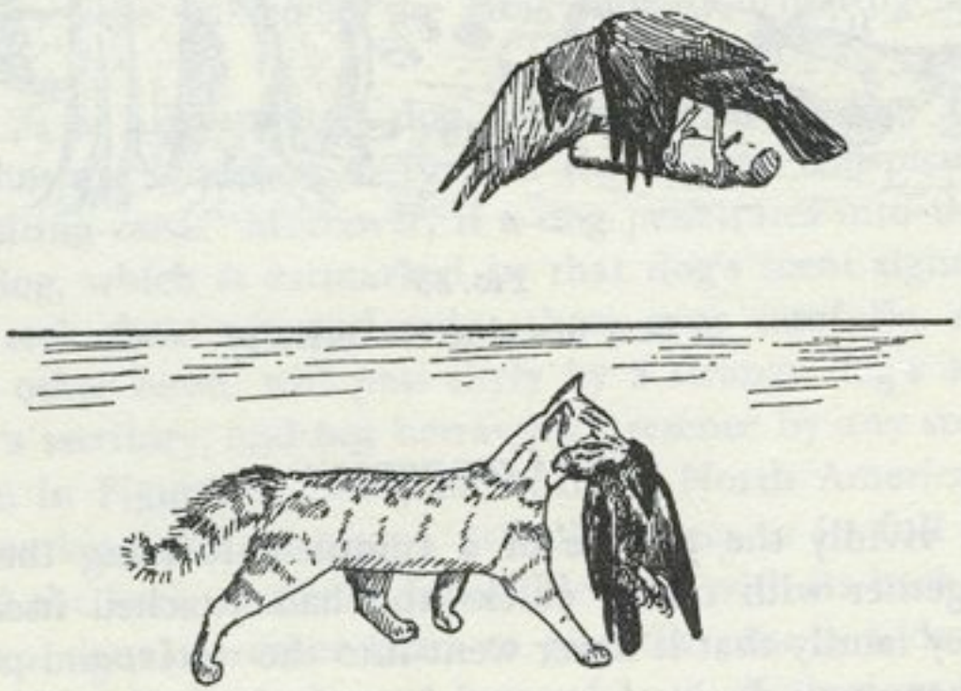


Fig. 34a
Jackdaw in posture of attack against cat

Fig. 34b
Jackdaw in posture of attack against bathing trunks

Pl. 3a. Photographie d'une rue de village

Pl. 3c. La même rue, pour un œil de mouche

Pl. 3b. La même rue photographiée à travers une grille

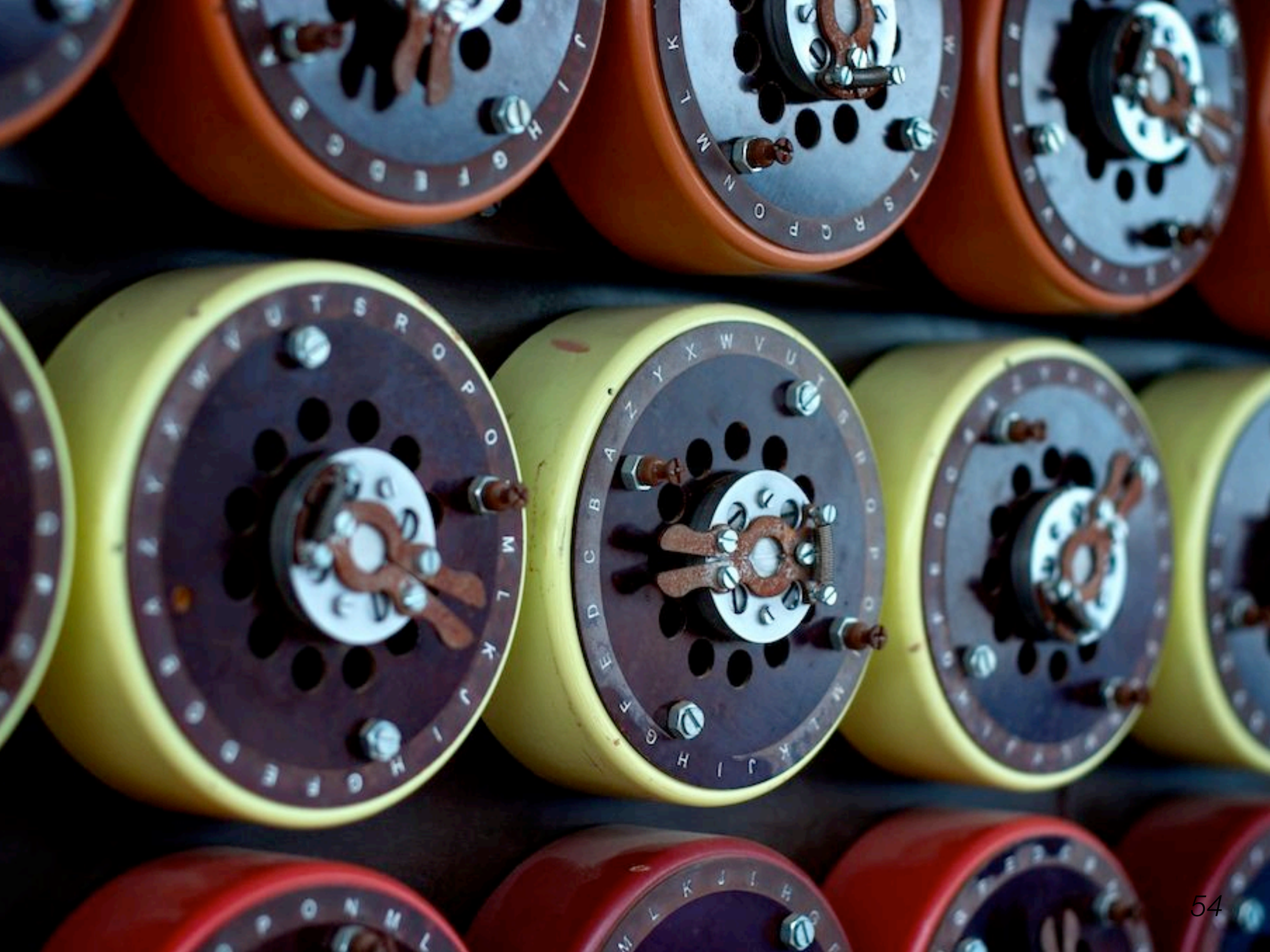
Pl. 3d. La même rue, pour un œil de mollusque

BIOSEMIOTICS

NATURE OF NATURE

NATURE OF NATURALISM

Alan Turing

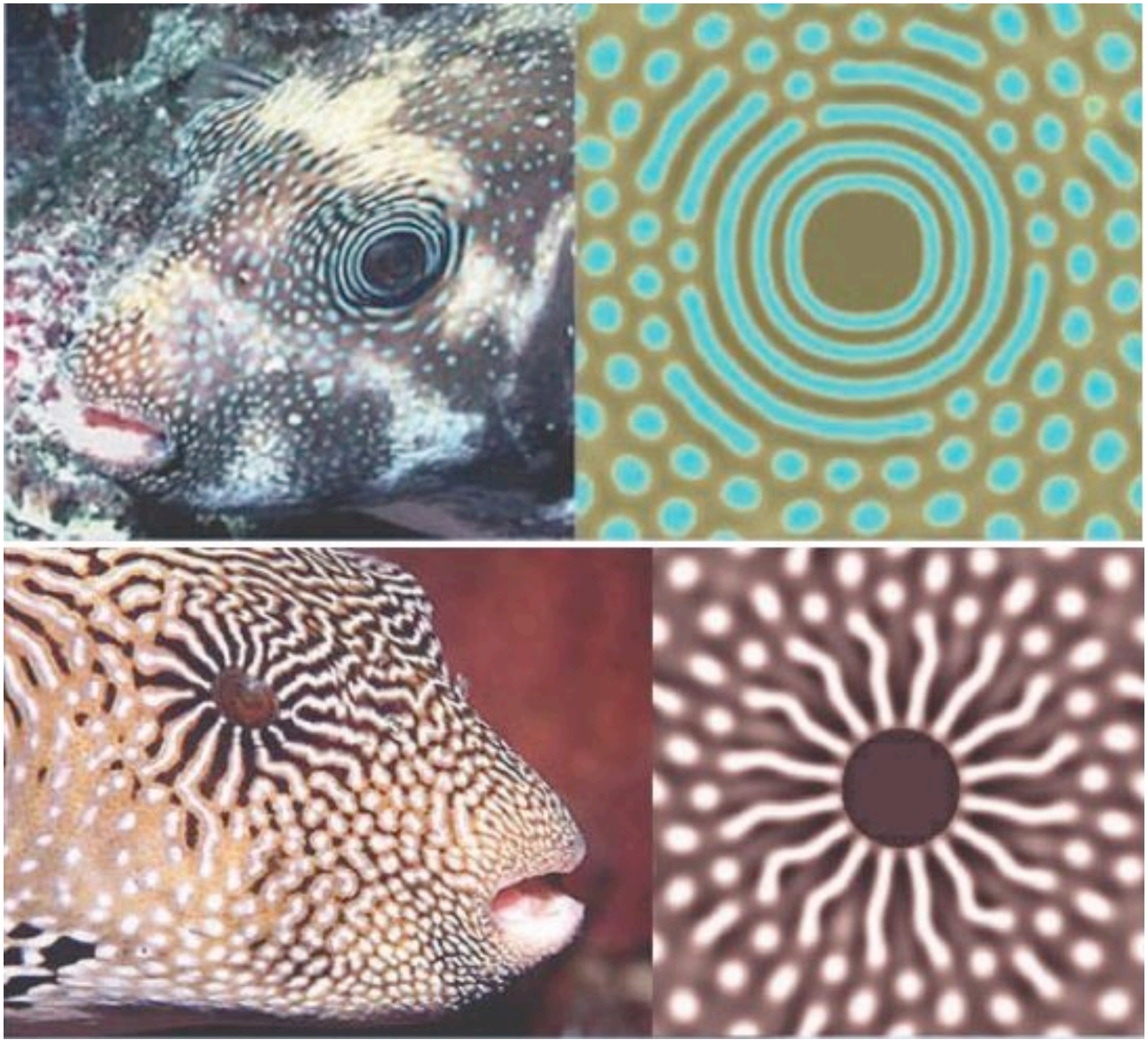


MORPHOGENESIS

THE CHEMICAL BASIS OF MORPHOGENESIS

By A. M. TURING, F.R.S. *University of Manchester*

(*Received* 9 *November* 1951—*Revised* 15 *March* 1952)



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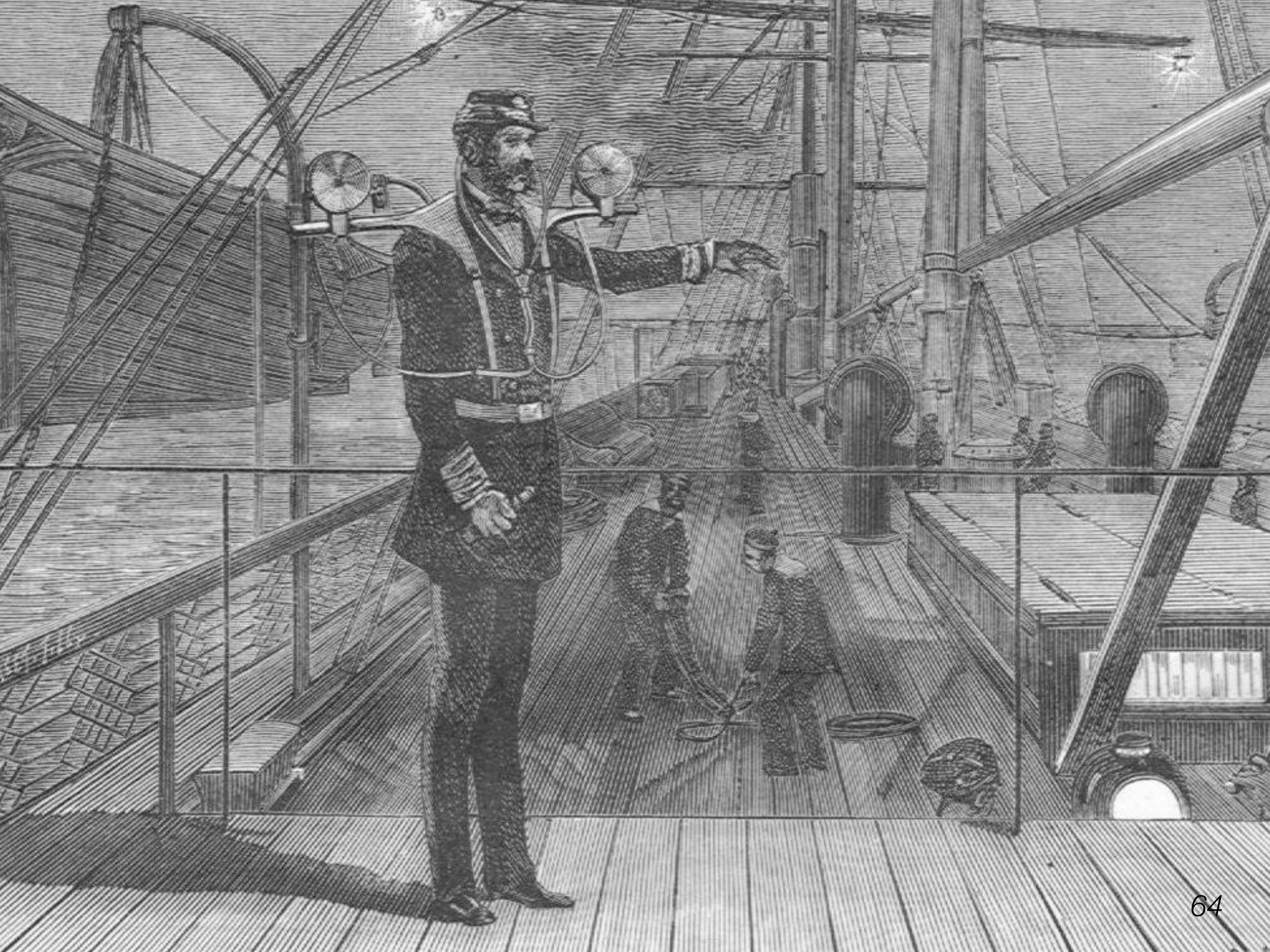
2.

MACHINES

1890's

Professor Mayer's topophone [1890]



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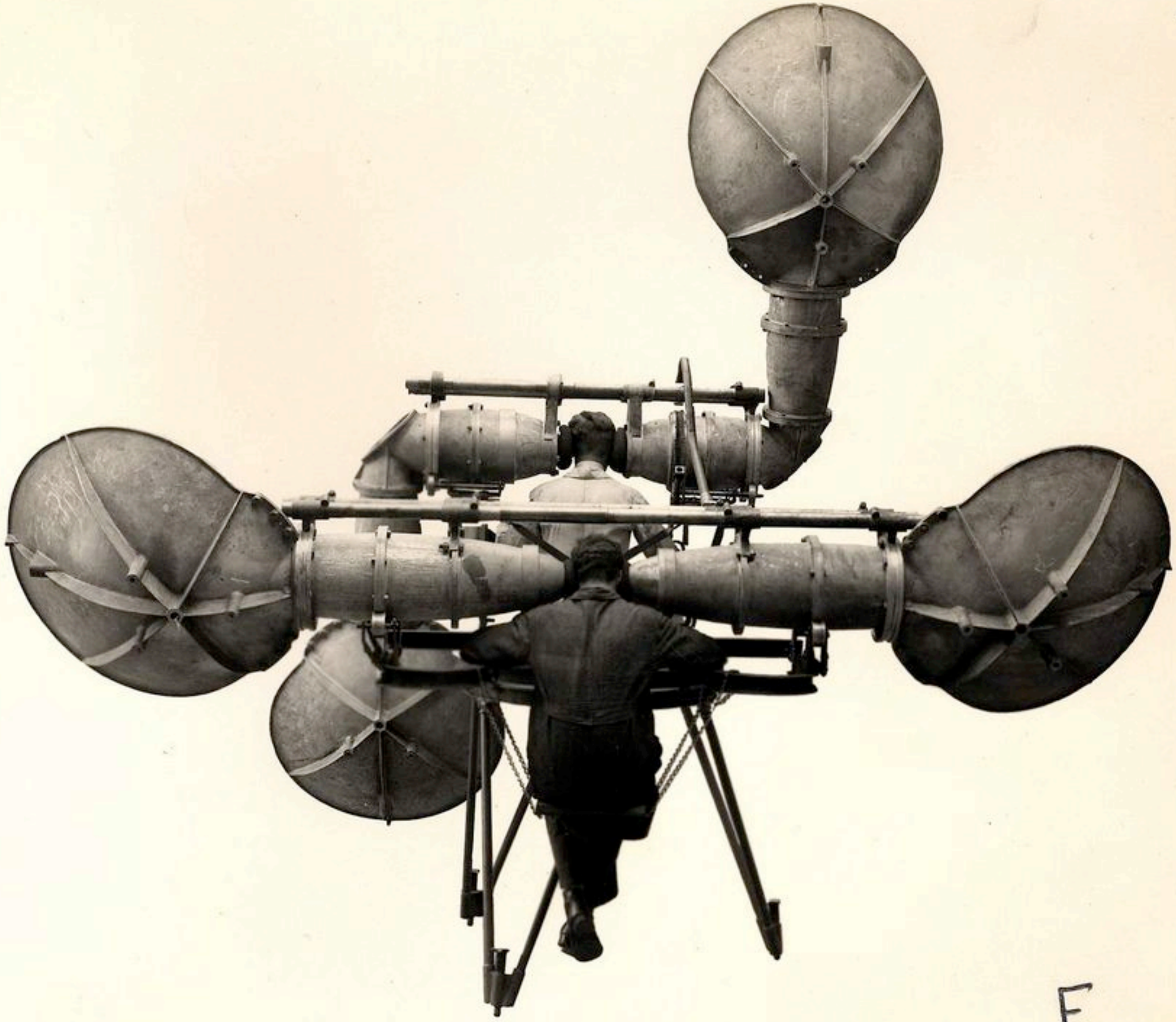

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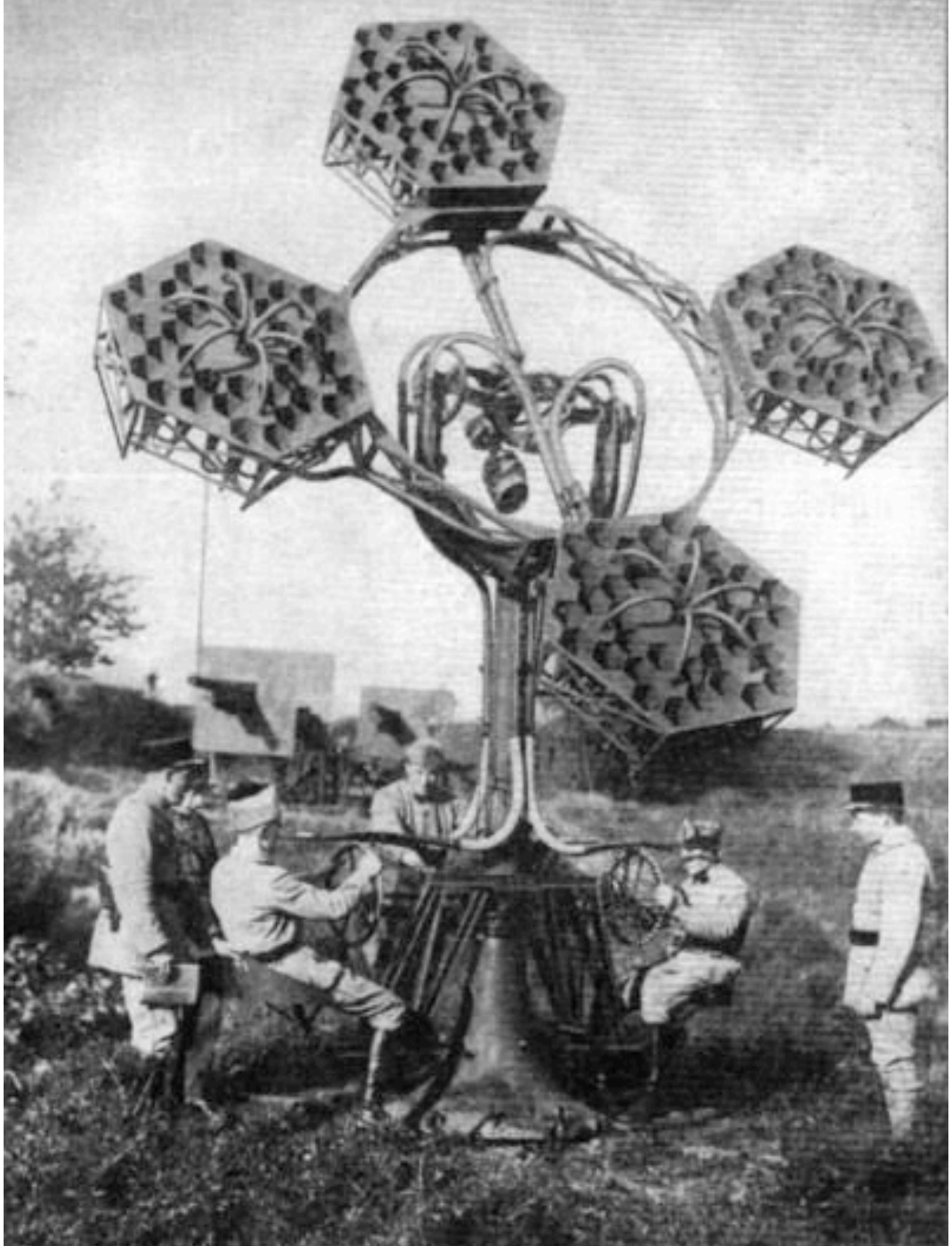
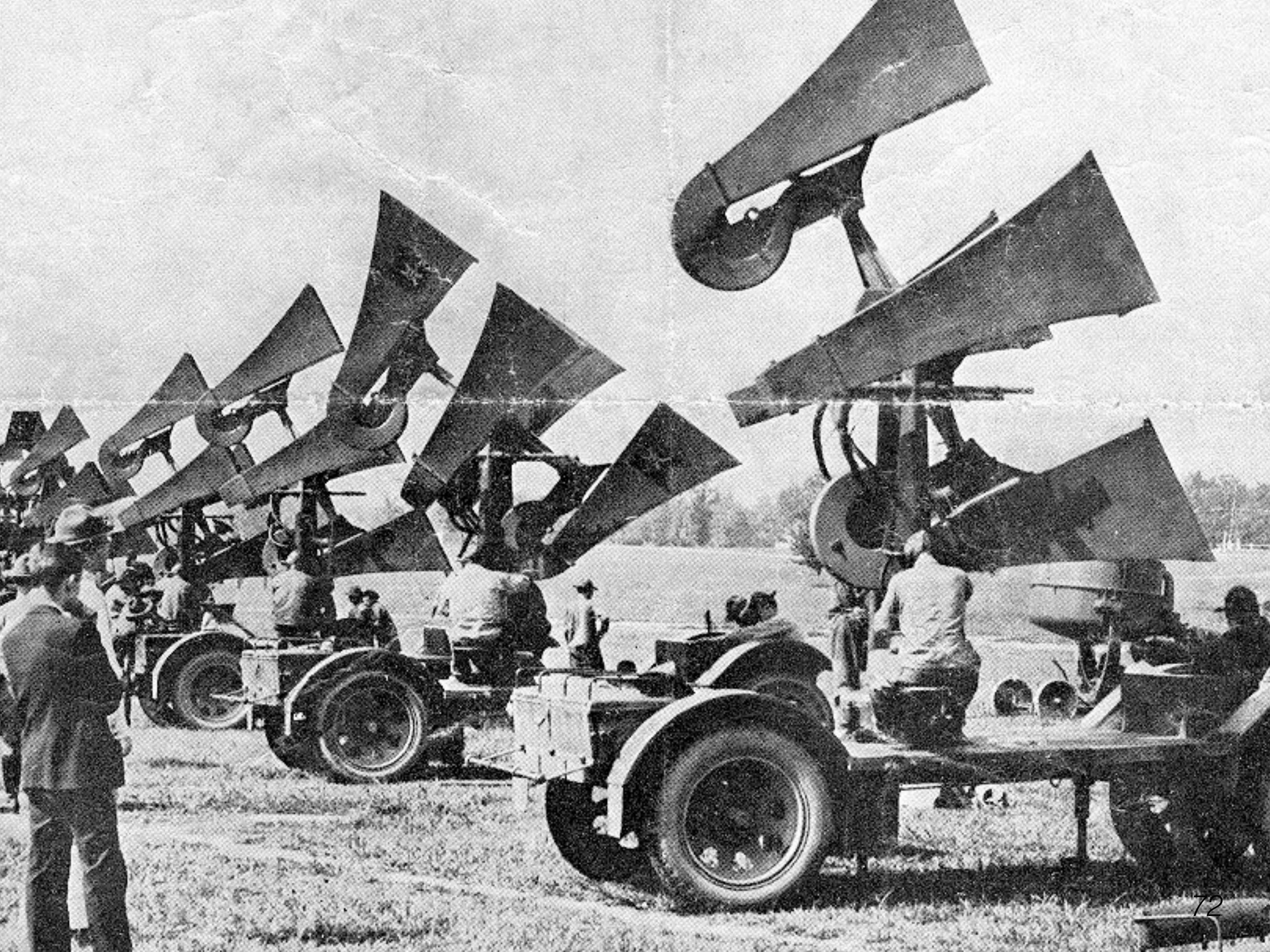
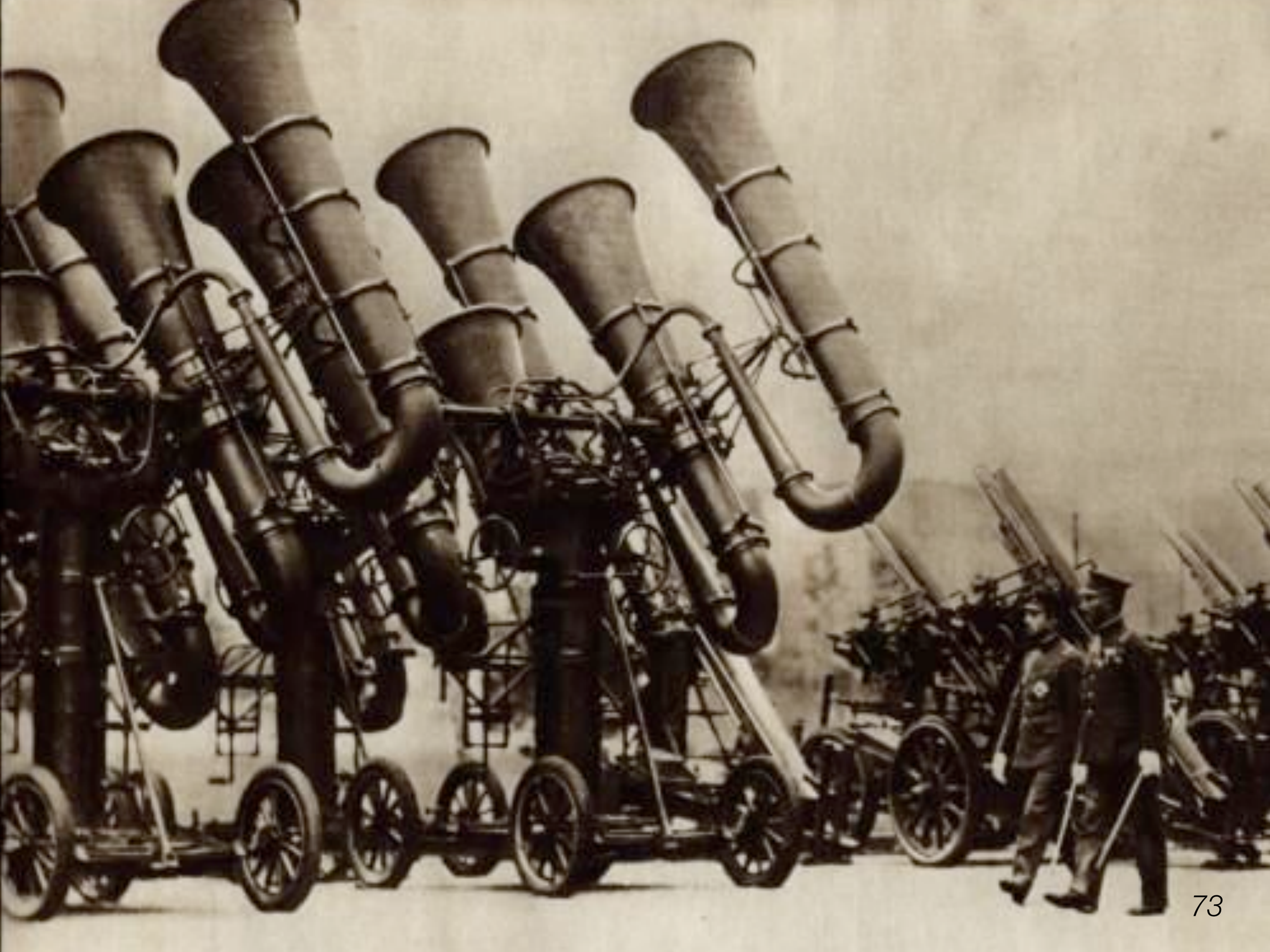
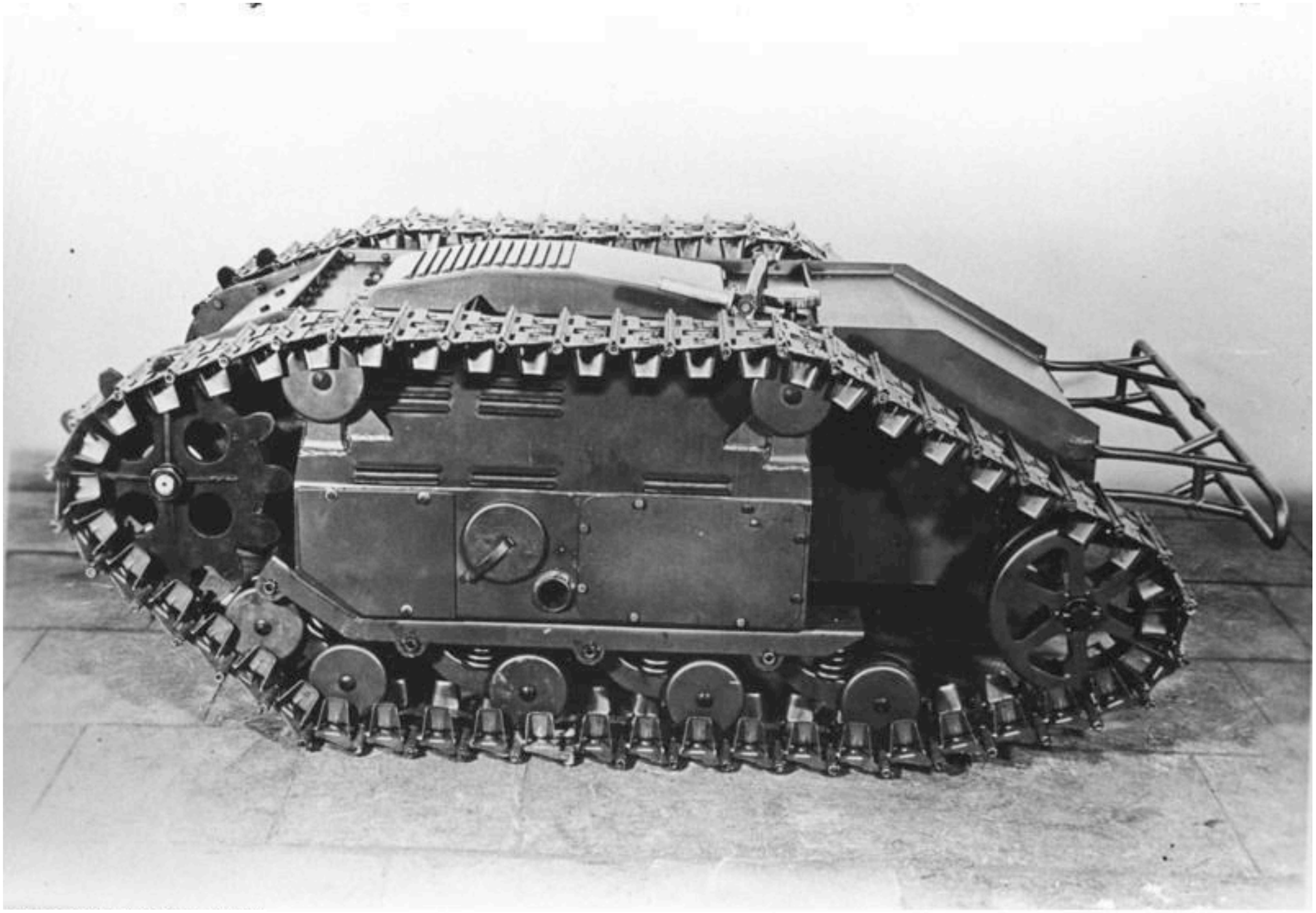


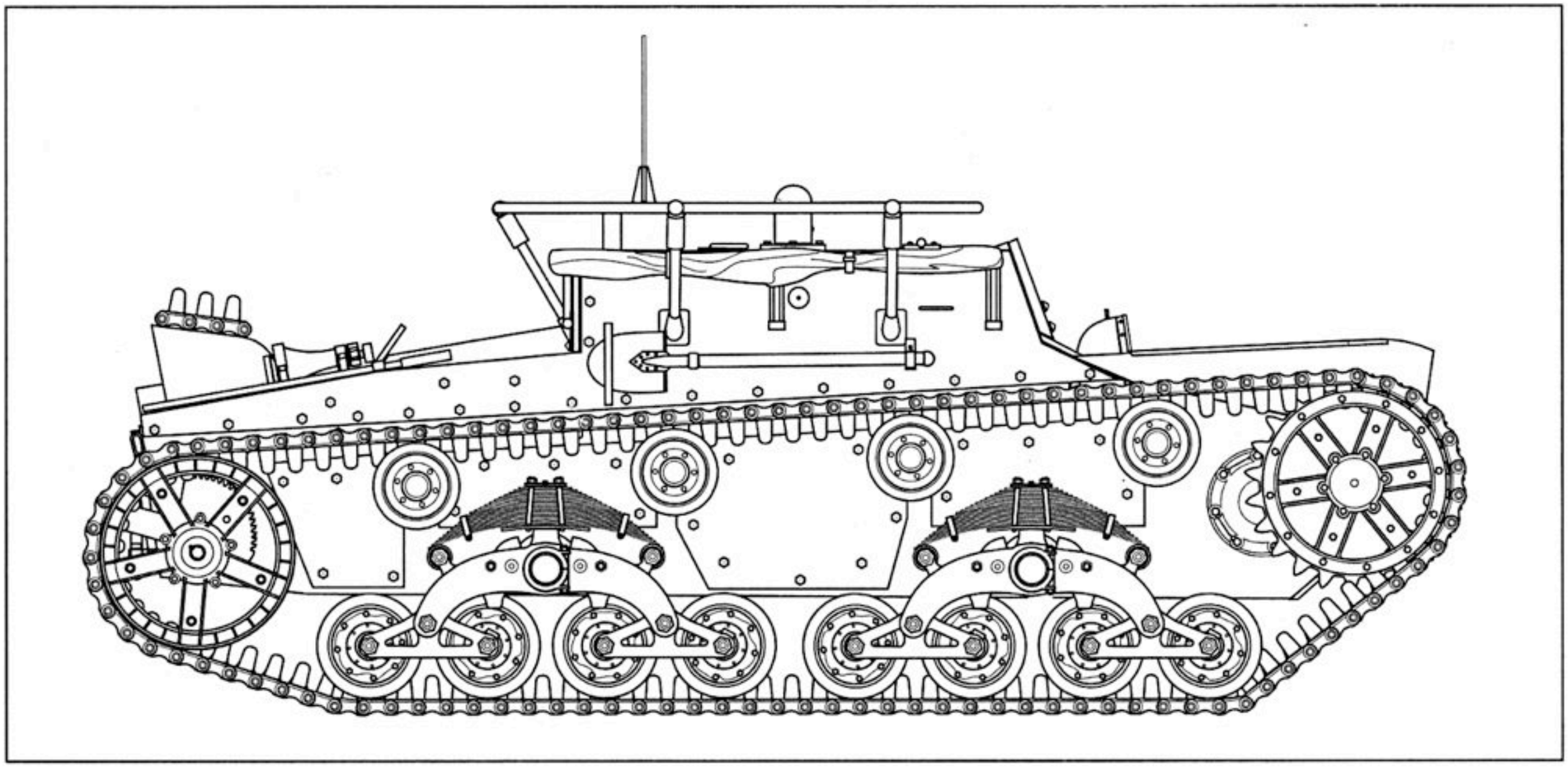


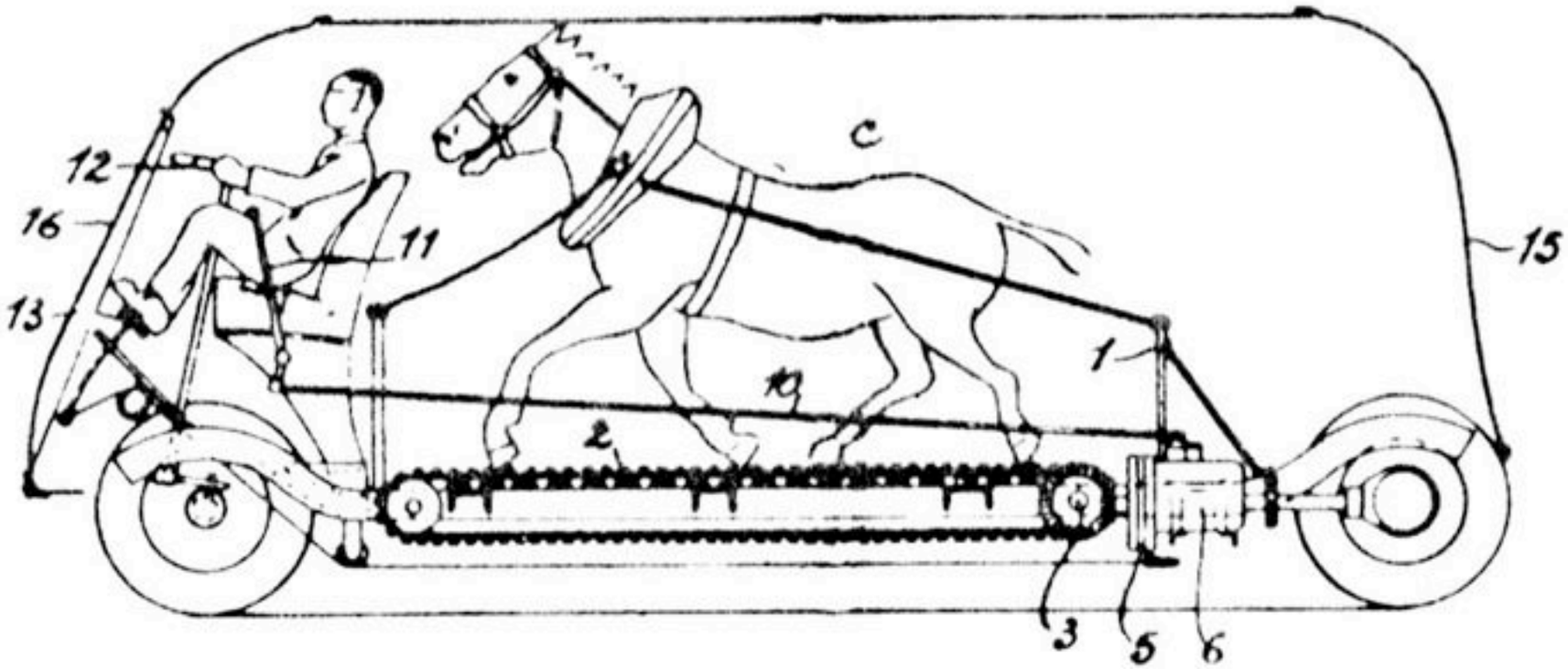




1940’s

SIGNAL CORPS
U.S. ARMY

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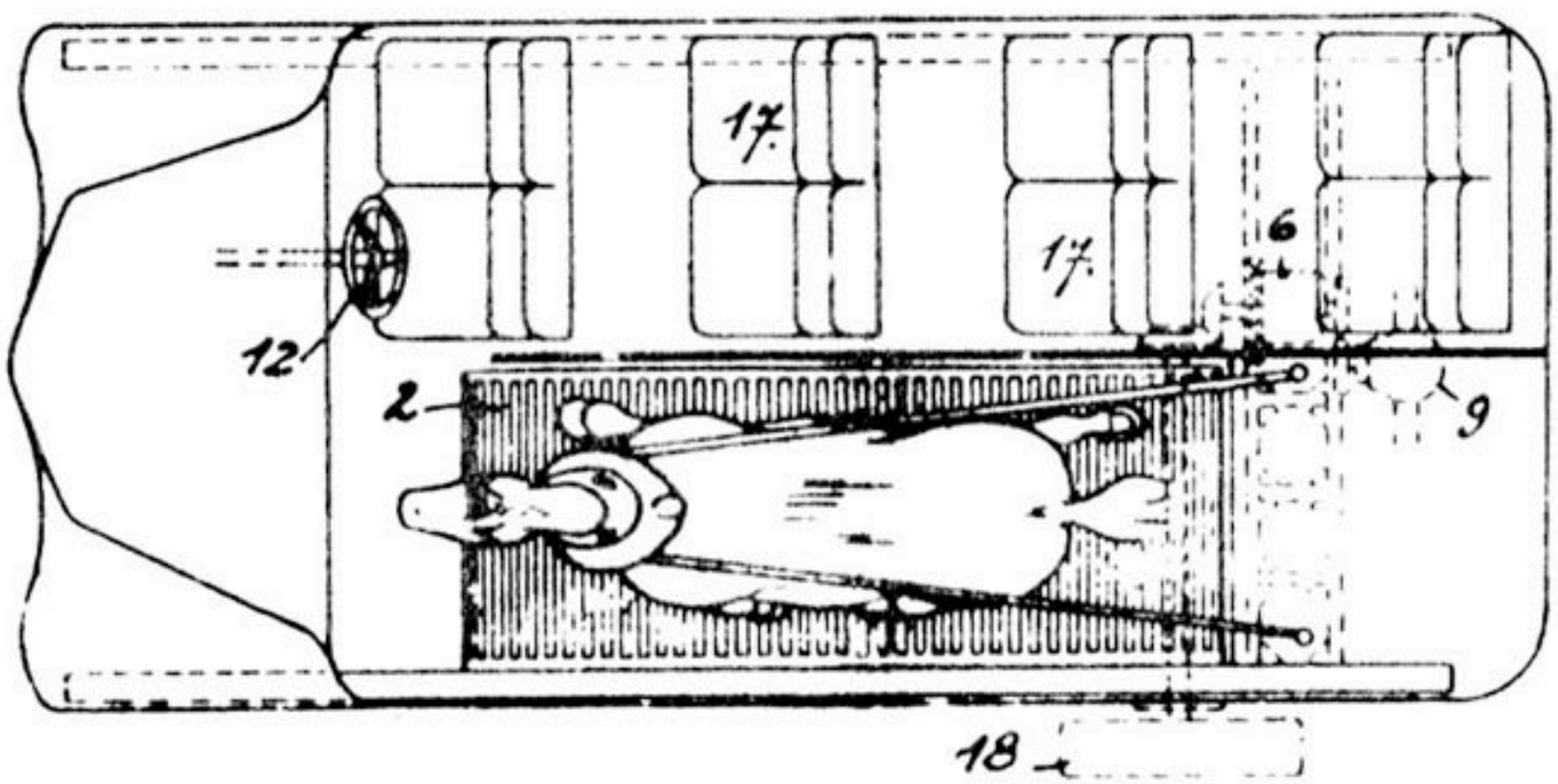
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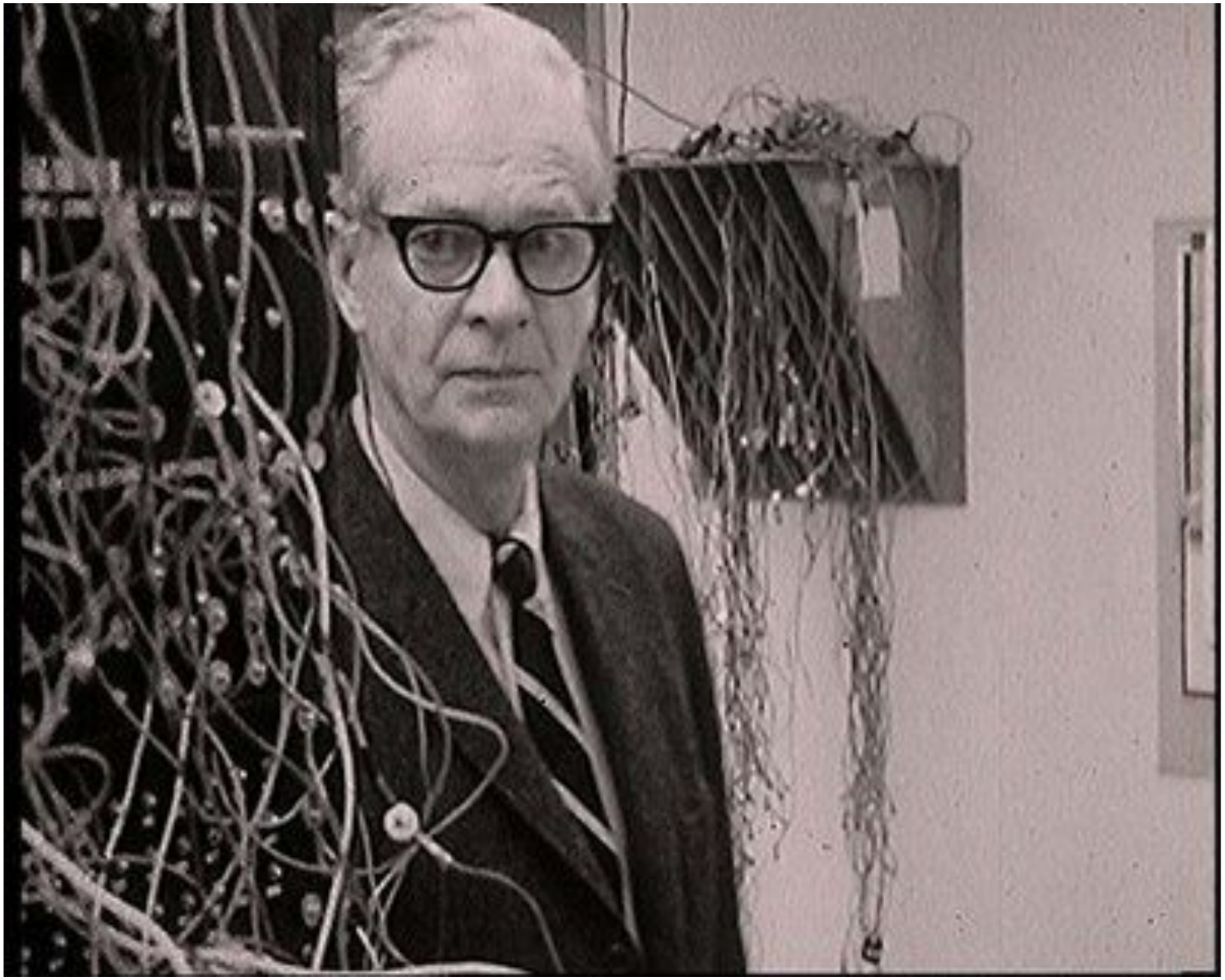
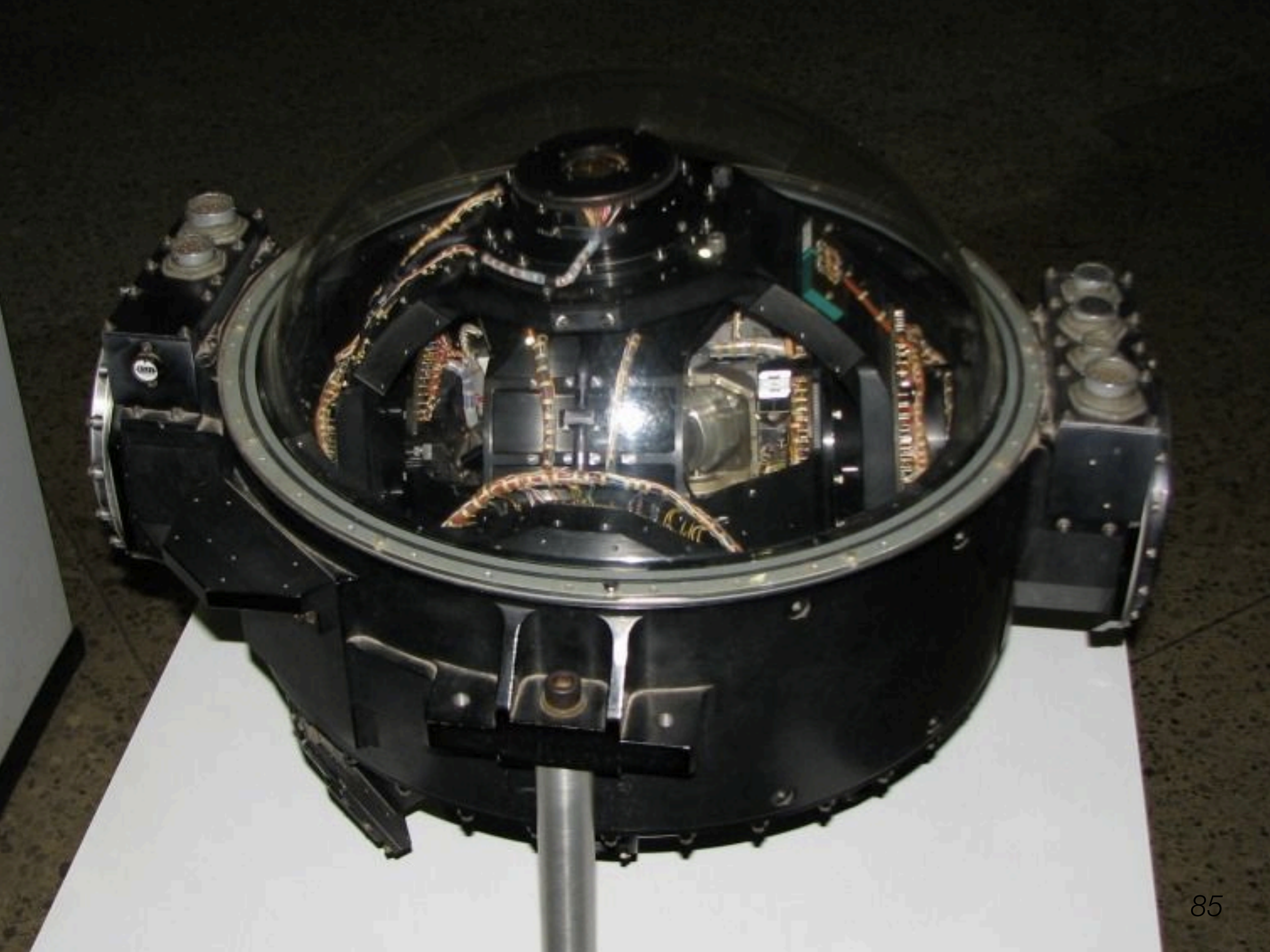
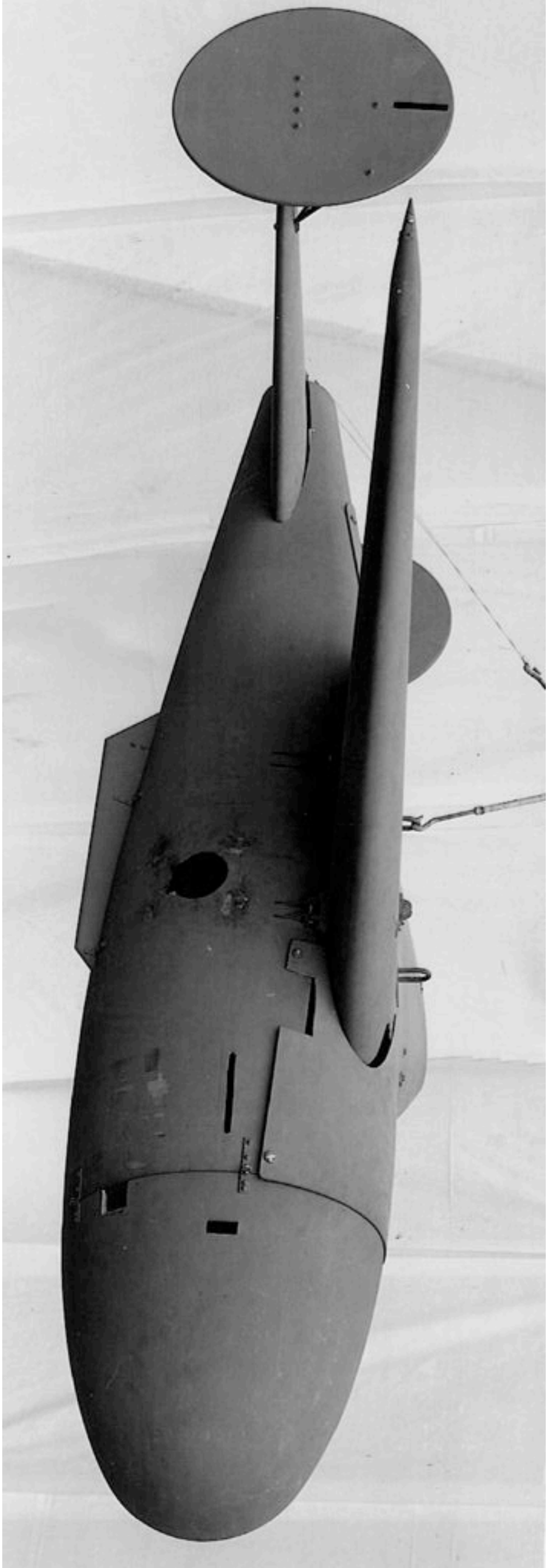


Burrhus F. Skinner





PIGEONS IN A PELICAN

B. F. SKINNER

Harvard University

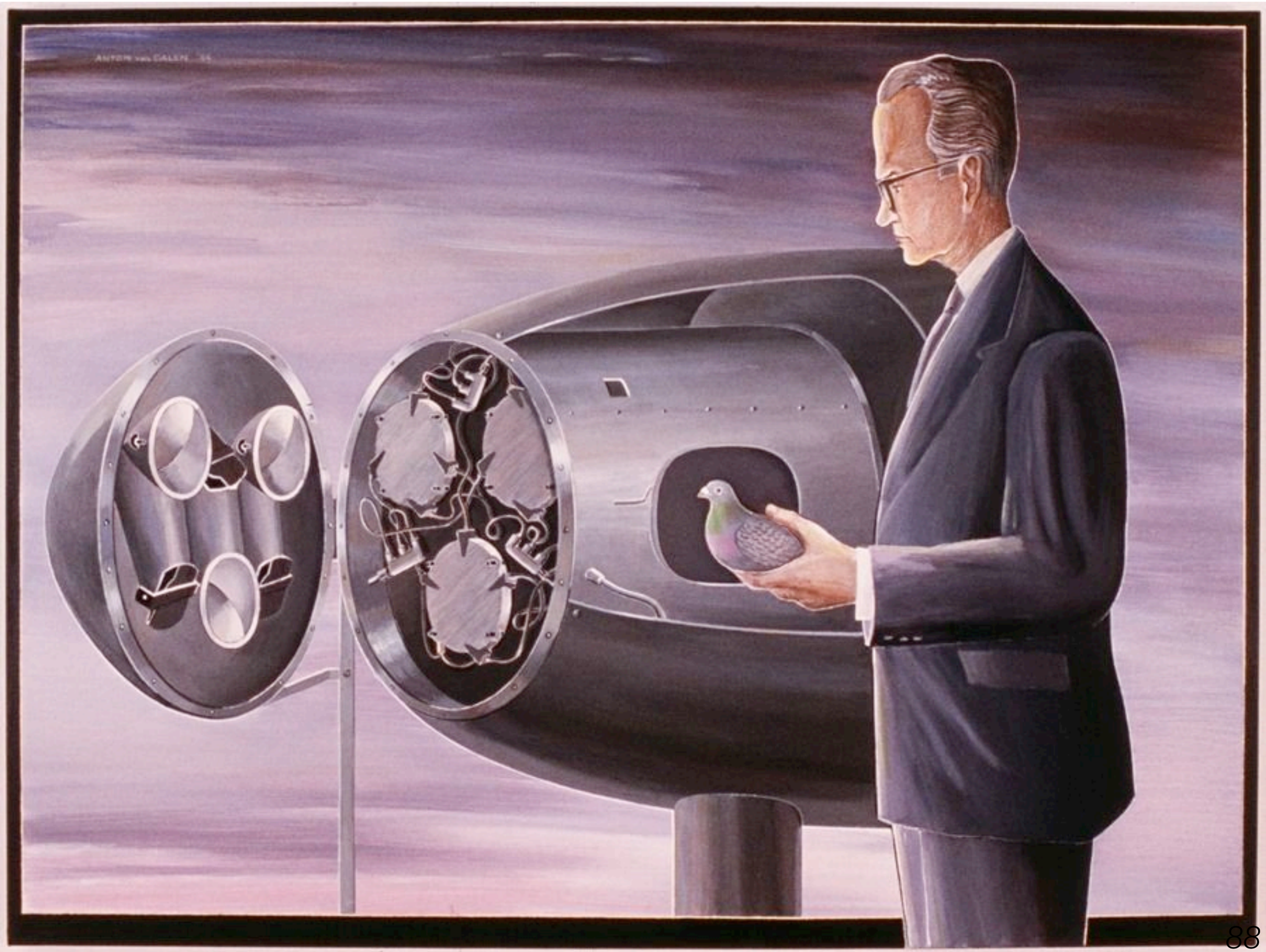
THIS is the history of a crackpot idea, born on the wrong side of the tracks intellectually speaking, but eventually vindicated in a sort of middle class respectability. It is the story of a proposal to use living organisms to guide missiles—of a research program during World War II called "Project Pigeon" and a peacetime continuation at the Naval Research Laboratory called "ORCON," from the words "organic control." Both of these programs have now been declassified.

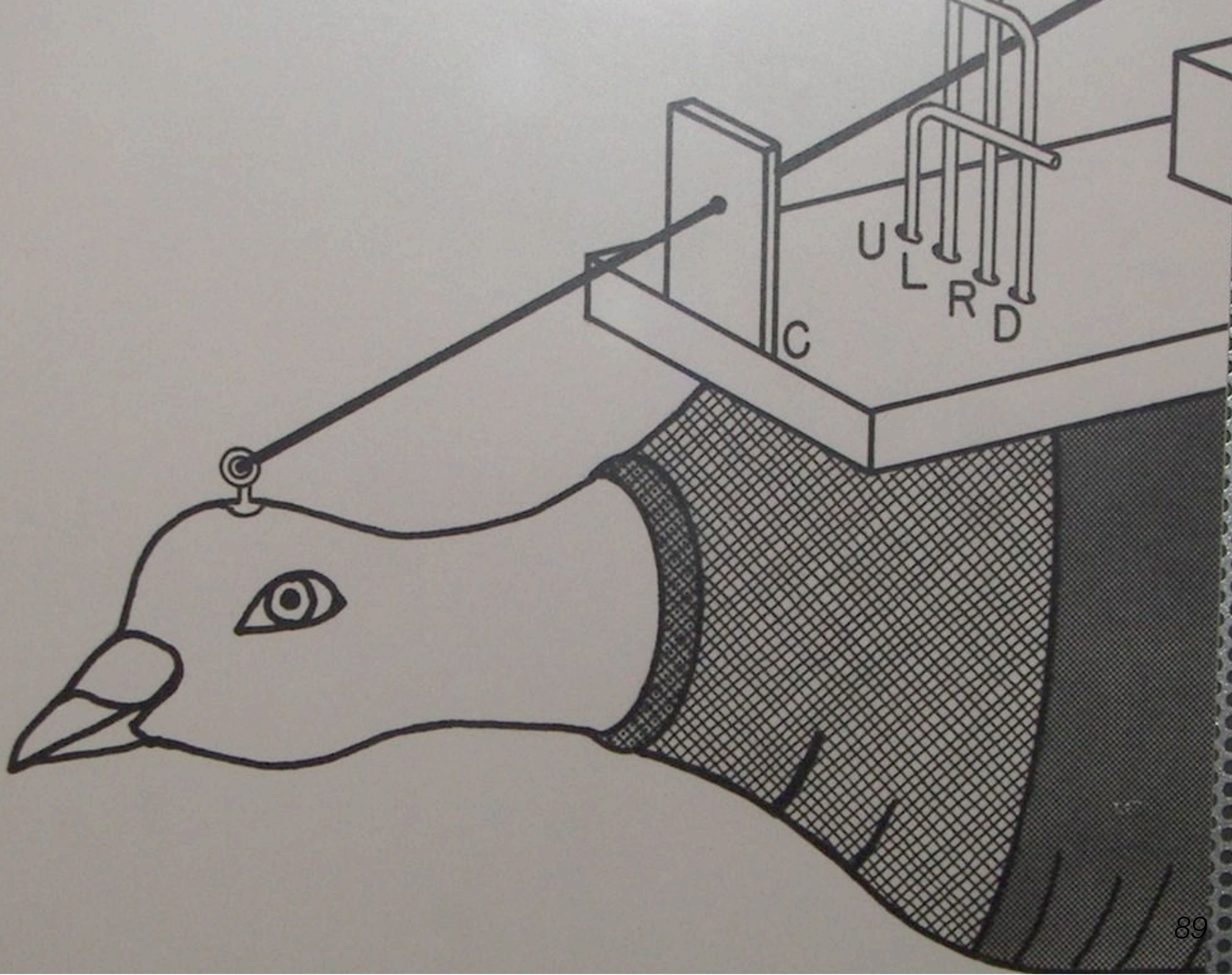
Man has always made use of the sensory capacities of animals, either because they are more acute than his own or more convenient. The watchdog probably hears better than his master and in any case listens while his master sleeps. As a detecting system the dog's ear comes supplied with an alarm (the dog need not be taught to announce the presence of an intruder), but special forms of reporting are sometimes set up. The tracking behavior of the bloodhound and the pointing of the hunting dog are usually modified to make them more useful. Training is sometimes quite explicit. It is said that sea gulls were used to detect sub-

tages. It is almost certainly cheaper and more compact and, in particular, is especially good at responding to patterns and those classes of patterns called "concepts." The lower organism is not used because it is more sensitive than man—after all, the kamikaze did very well—but because it is readily expendable.

Project Pelican

The ethical question of our right to convert a lower creature into an unwitting hero is a peacetime luxury. There were bigger questions to be answered in the late thirties. A group of men had come into power who promised, and eventually accomplished, the greatest mass murder in history. In 1939 the city of Warsaw was laid waste in an unprovoked bombing, and the airplane emerged as a new and horrible instrument of war against which only the feeblest defenses were available. Project Pigeon was conceived against that background. It began as a search for a homing device to be used in a surface-to-air guided missile as a defense against aircraft. As the balance between


ANTON van GALEN 55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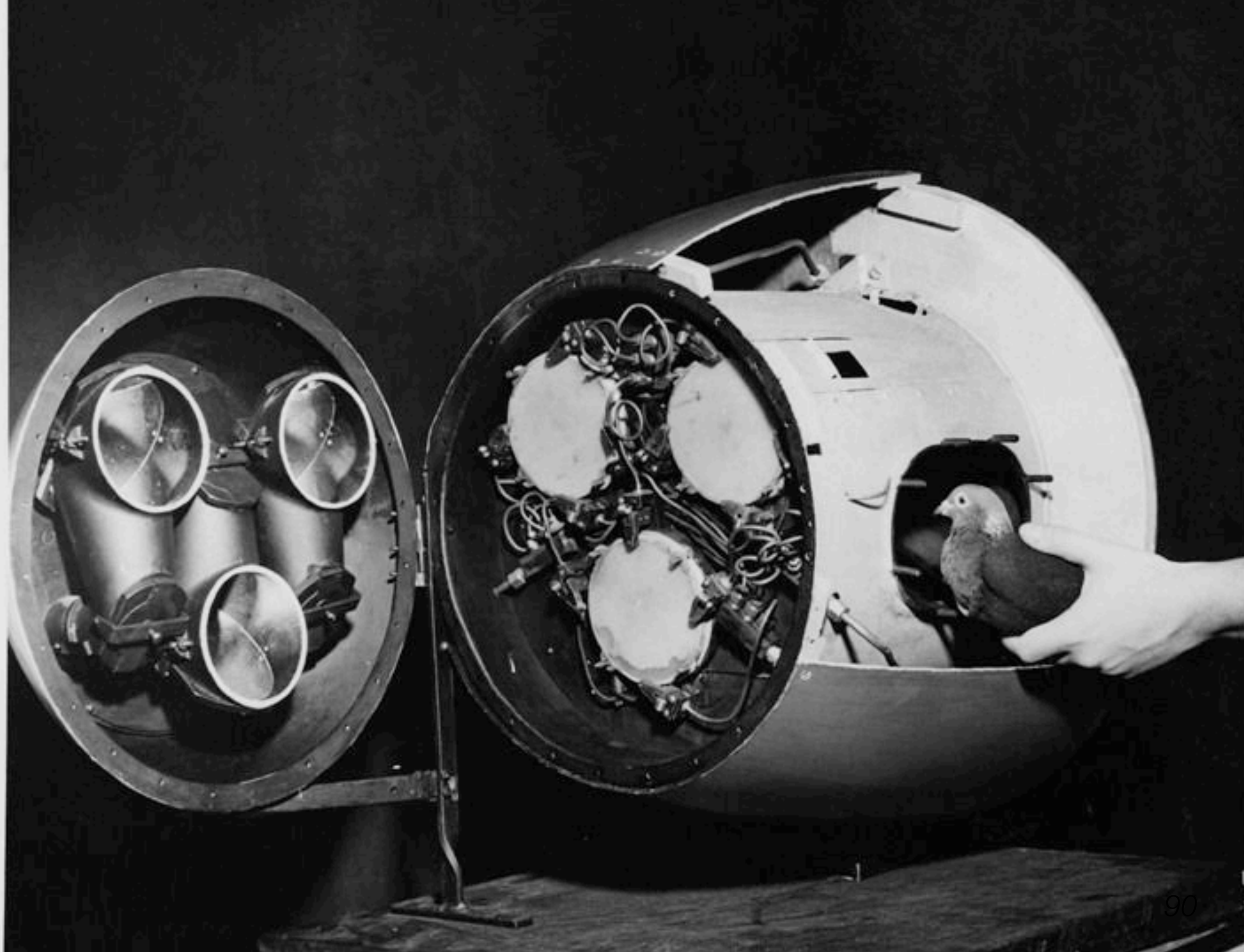
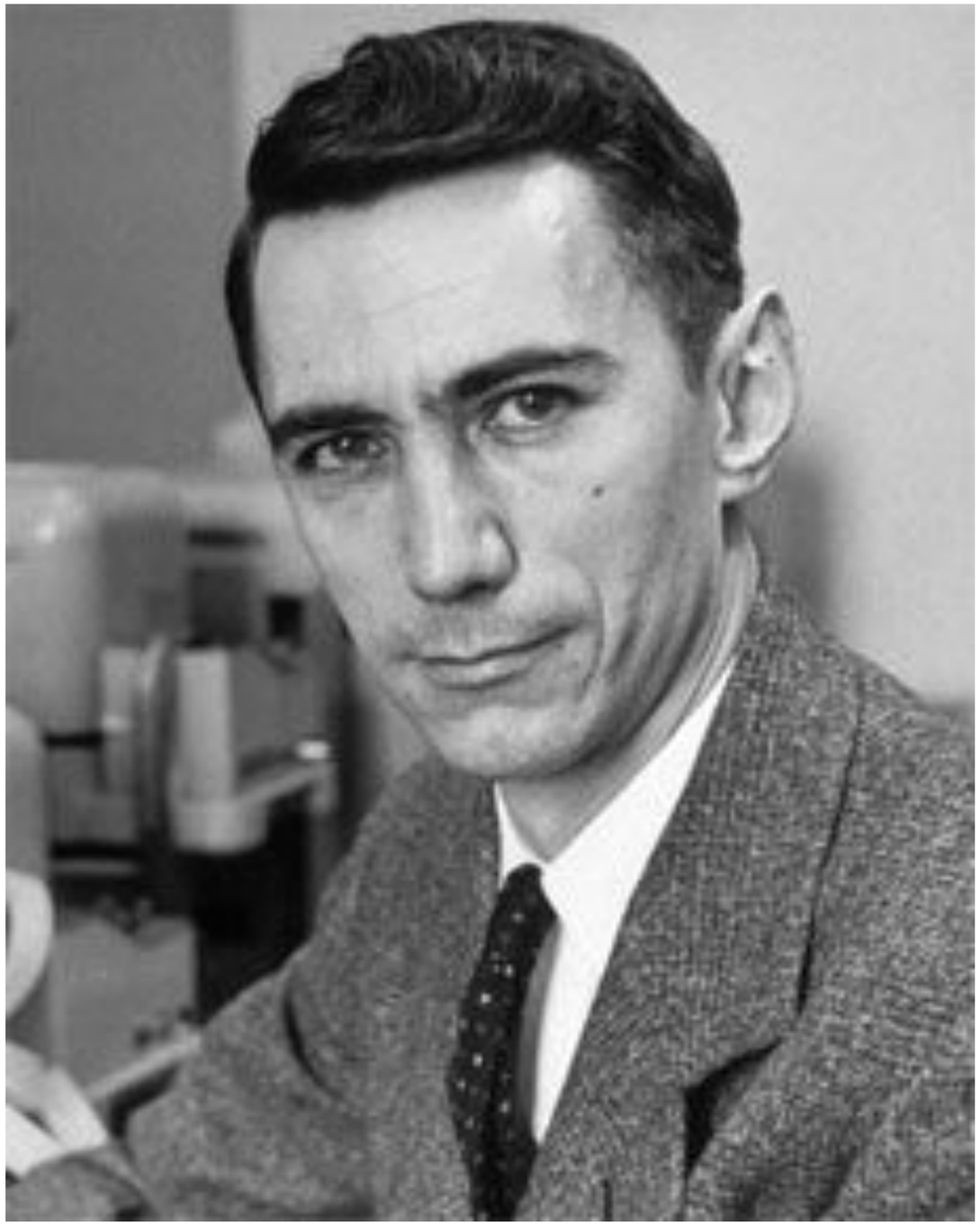
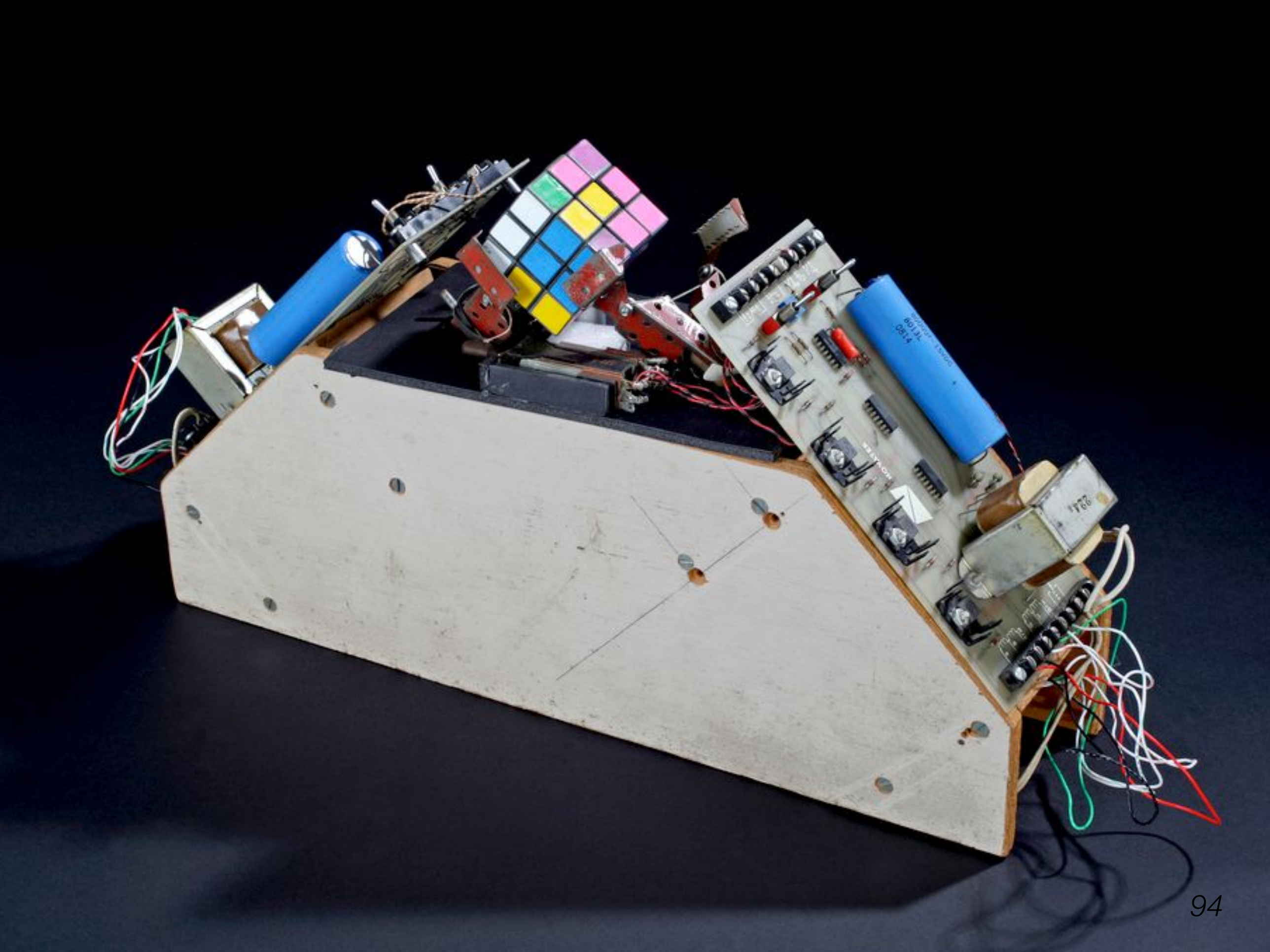


In the year which followed the termination of Project Pigeon I wrote Walden Two (Skinner, 1948), a Utopian picture of a properly engineered society. Some psychotherapists might argue that I was suffering from personal rejection and simply retreated to a fantasied world where everything went according to plan, where there never was heard a discouraging word.

But another explanation is, I think, equally plausible. That piece of science fiction was a declaration of confidence in a technology of behavior. Call it a crackpot idea if you will; it is one in which I have never lost faith.



Claude E. Shannon



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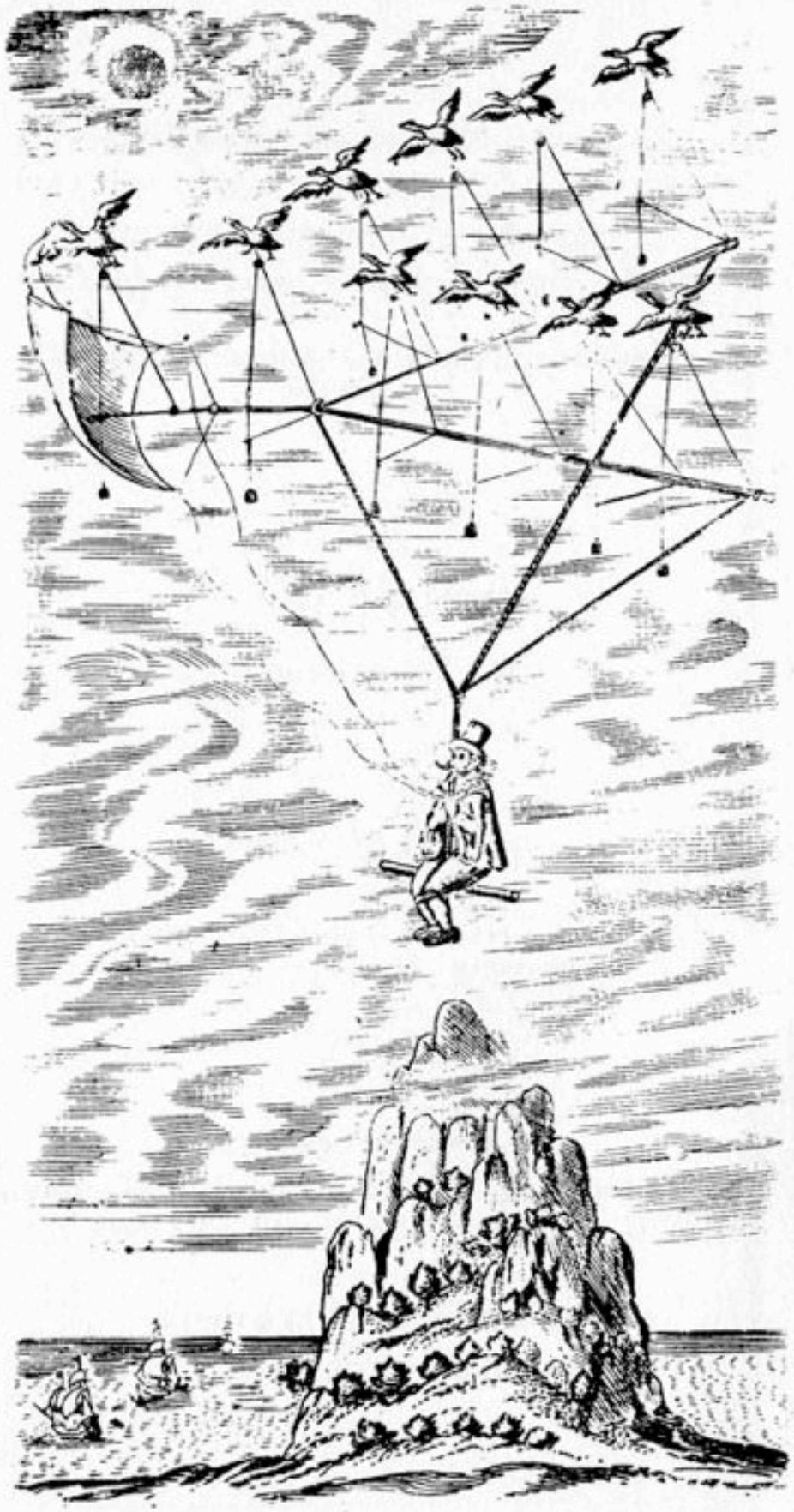
OFF

3.

IMAGINATION



GODWIN, Francis, bishop

THE

MAN IN THE MOONE:

OR

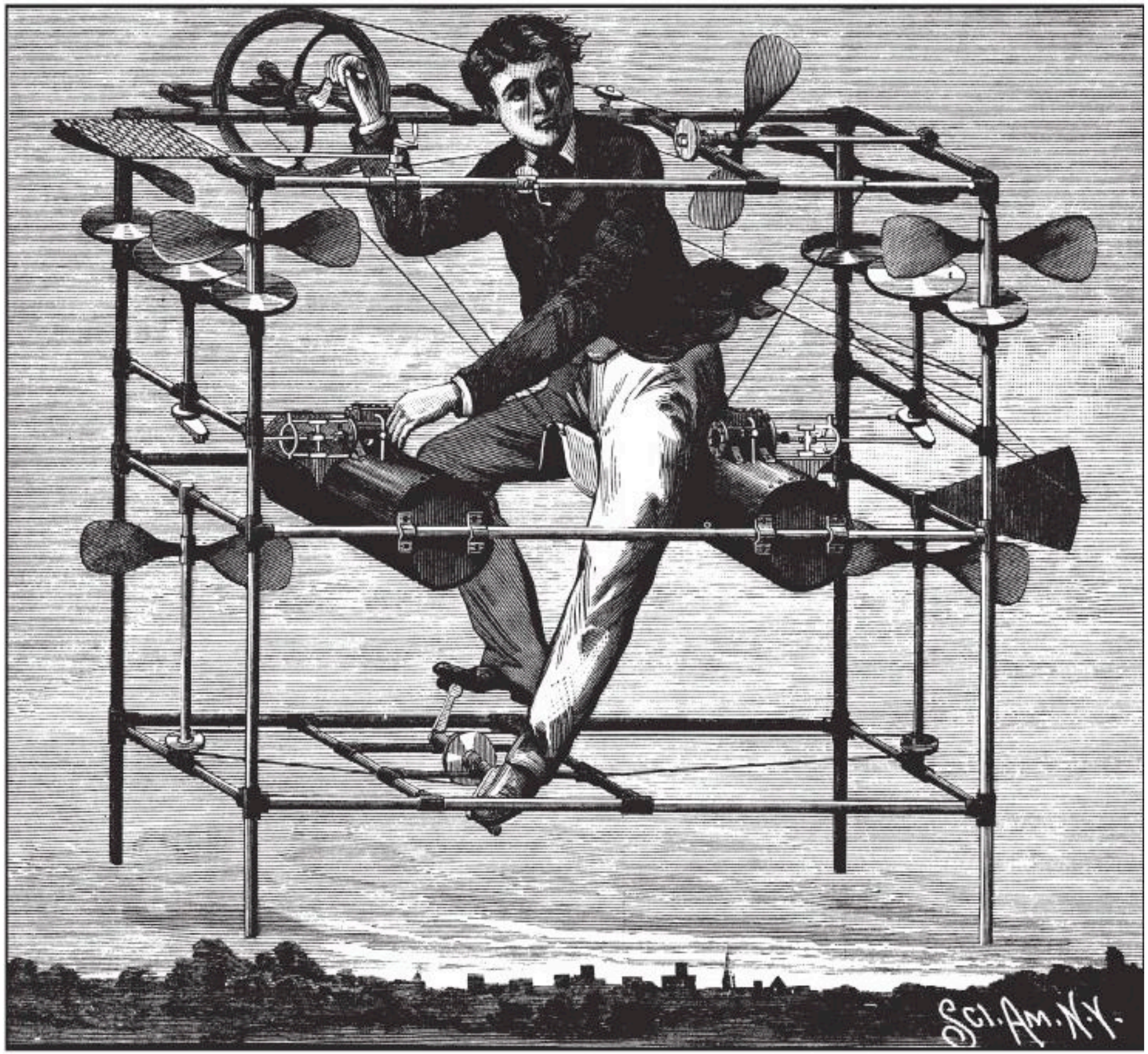
A DISCOVRSE OF A Voyage thither

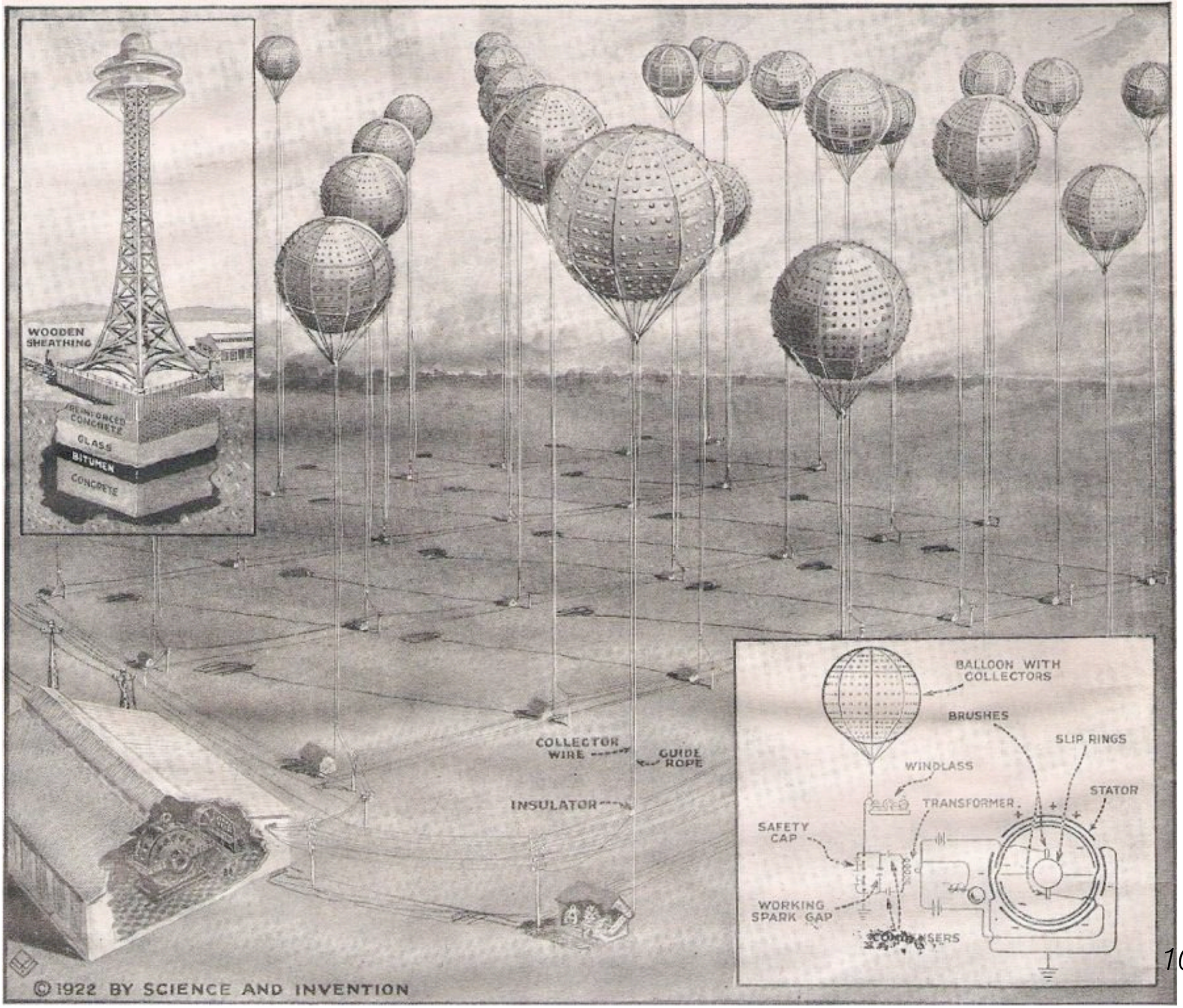
BY

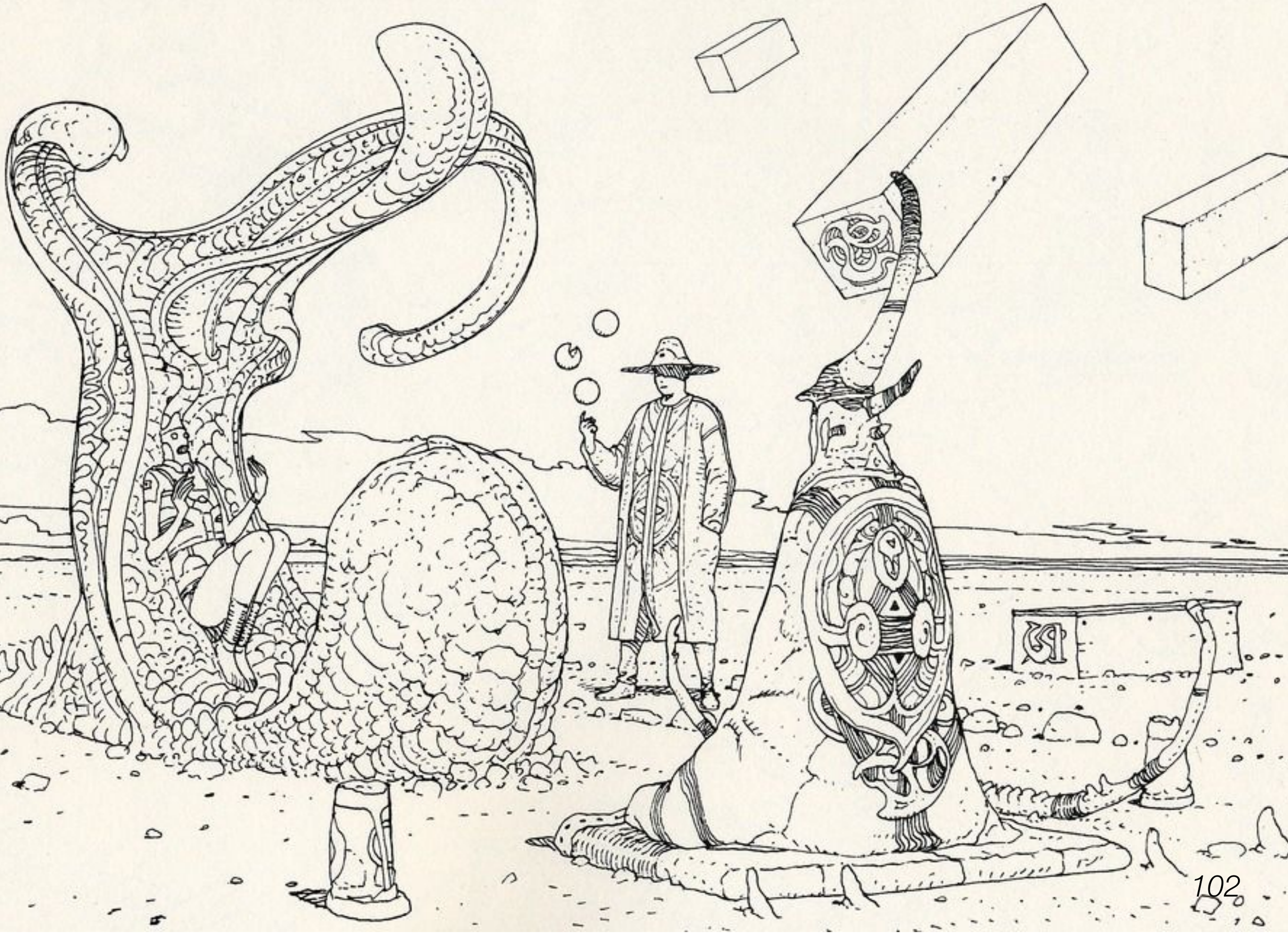
DOMINGO GONSALES

The speedy Messenger.

LONDON,
Printed by JOHN NORTON, for
Iosh. Kirton, and *Thomas Warren*. 1638.


Sci. Am. N.Y.


WOODEN SHEATHING
REINFORCED CONCRETE
GLASS
BITUMEN
CONCRETE
COLLECTOR WIRE
GUIDE ROPE
INSULATOR
BALLOON WITH COLLECTORS
BRUSHES
SLIP RINGS
WINDLASS
STATOR
TRANSFORMER
SAFETY CAP
WORKING SPARK GAP
CONDENSERS
© 1922 BY SCIENCE AND INVENTION



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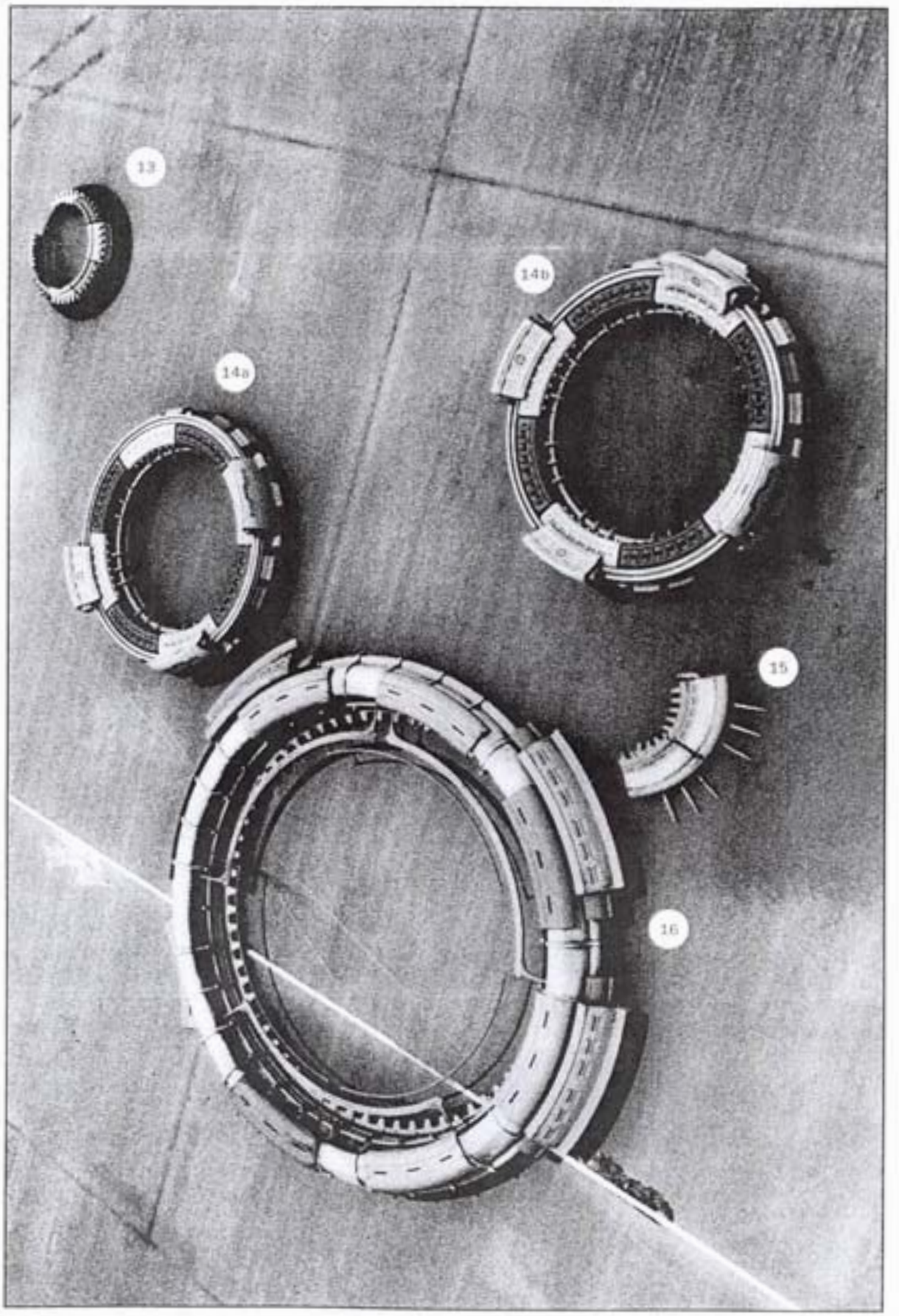

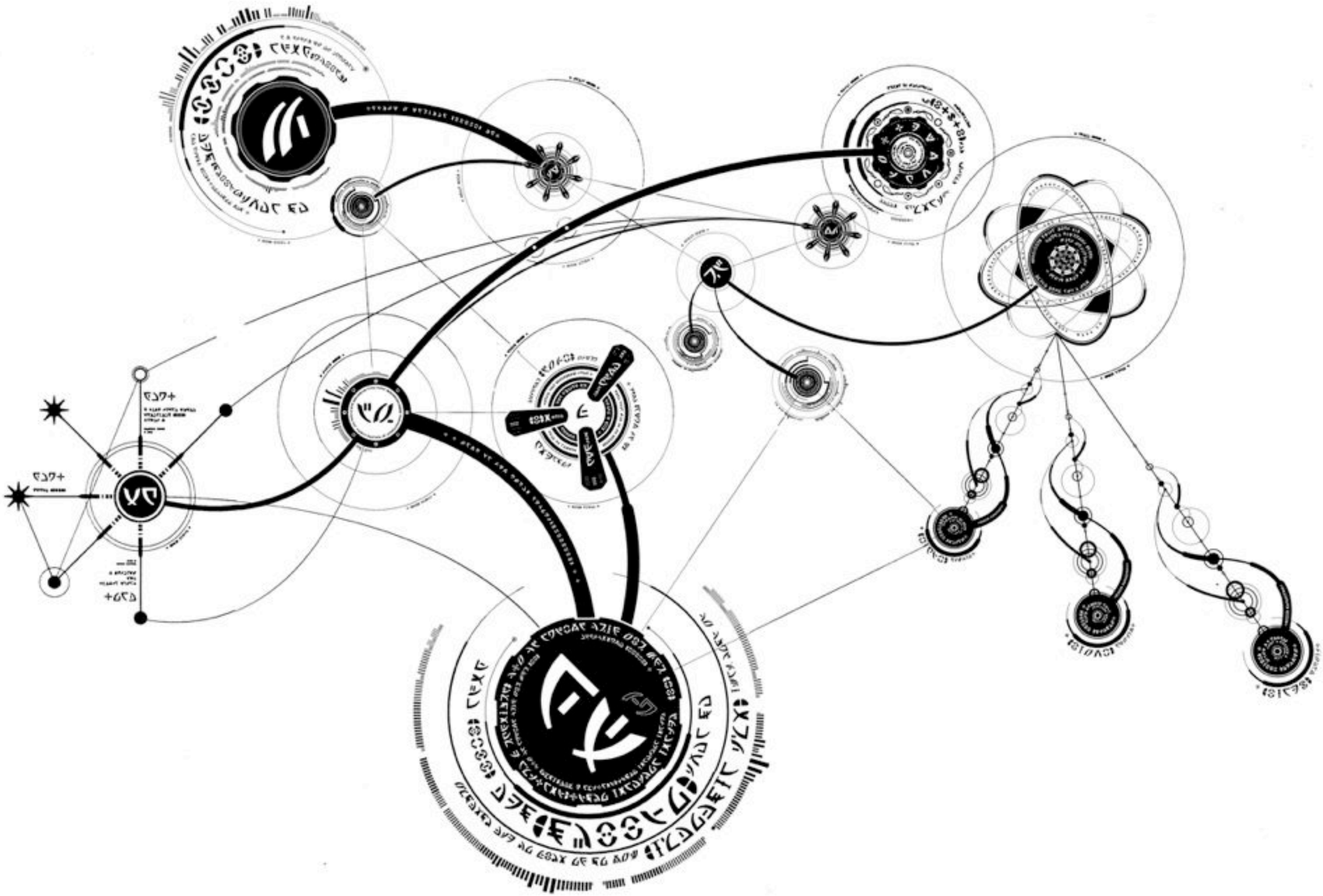

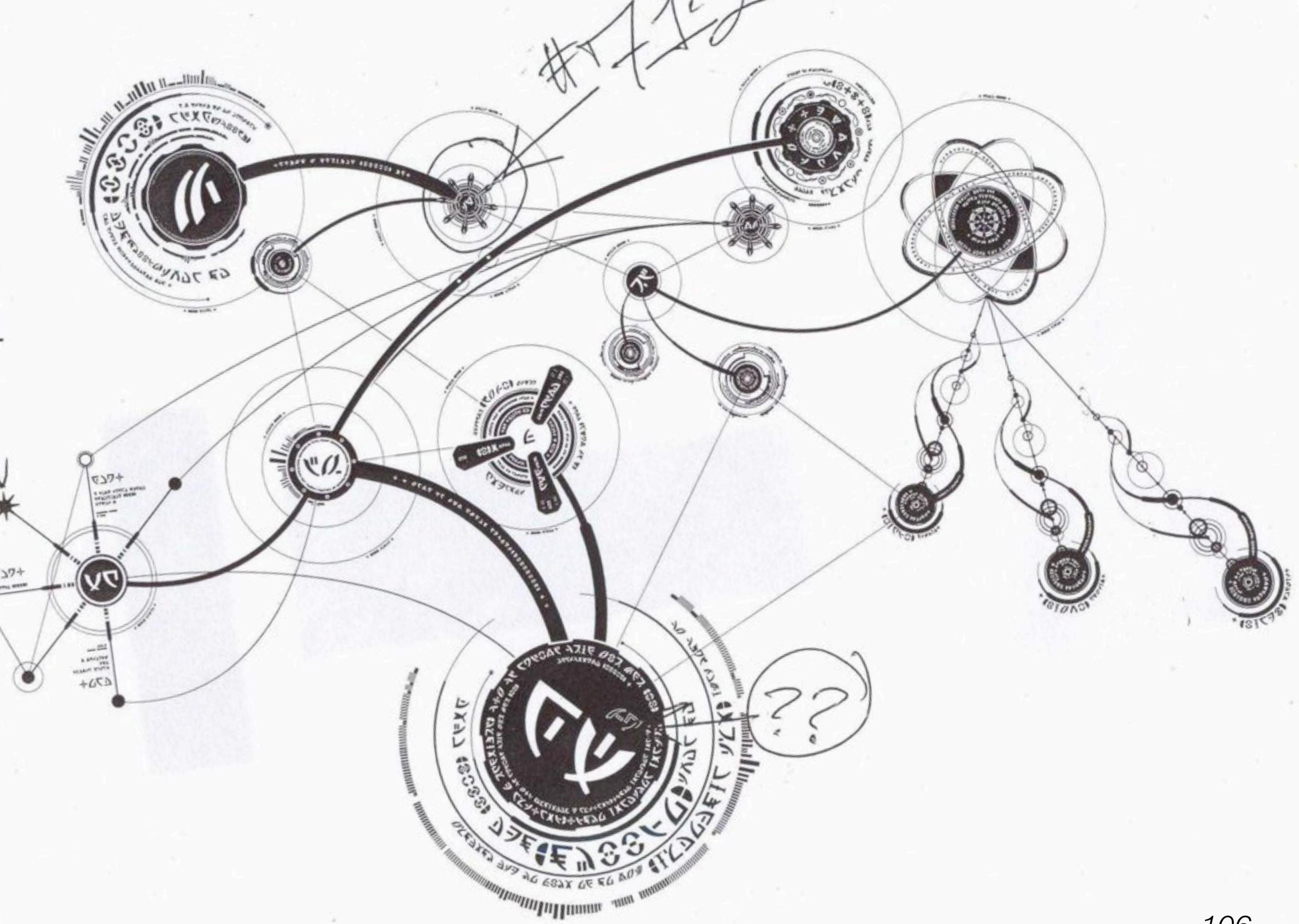

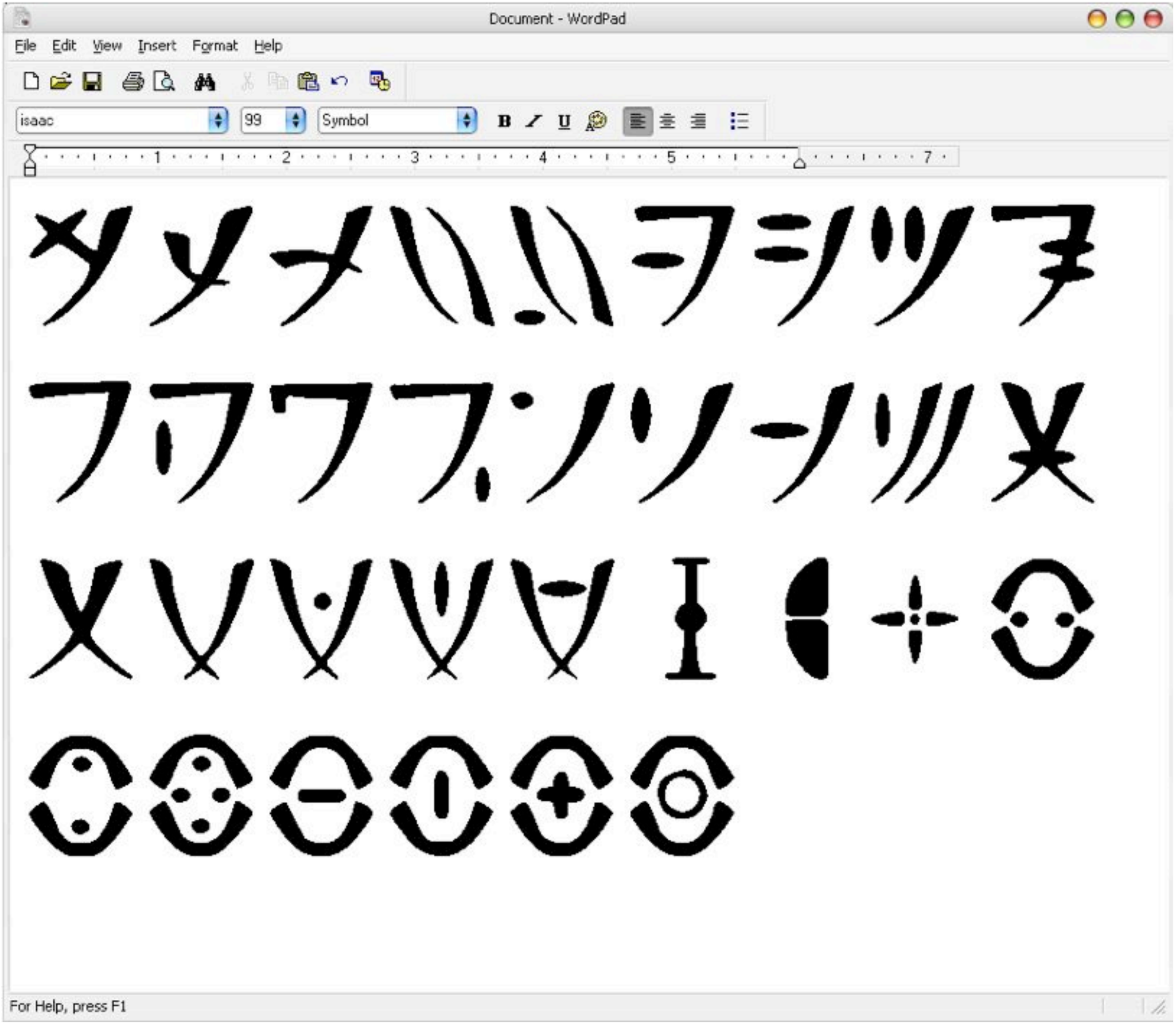
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ORGANIC MACHINES

IMAGINE

MACHINES

NATURAL

1

PARLIAMENT OF THINGS

DGN . LTR . HRWY

COSMOPOLITICS

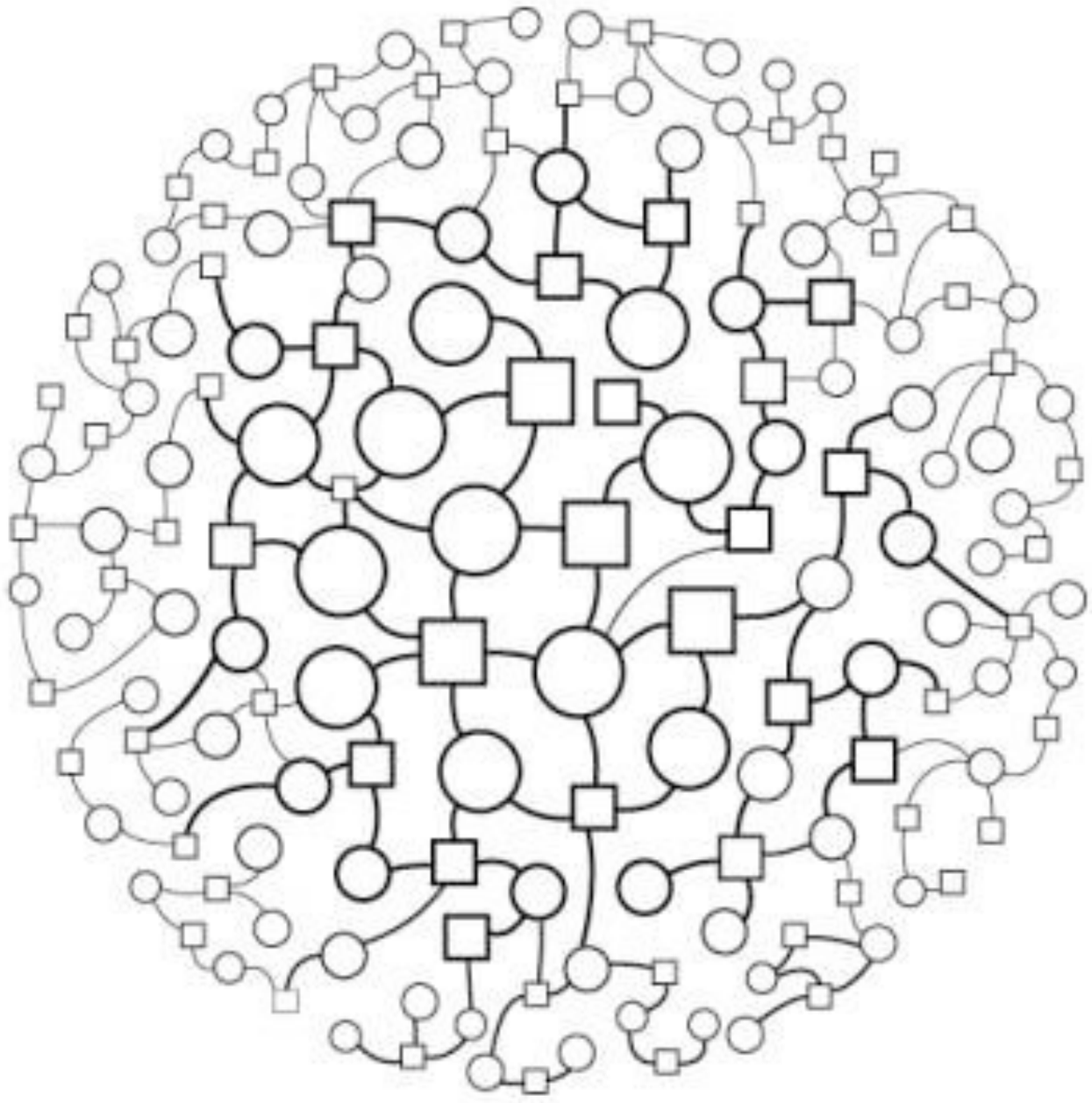
SUBJECT

OBJECT

NON-MODERN

ONTOLOGICAL REVOLUTION

RETHINKING ENTITIES



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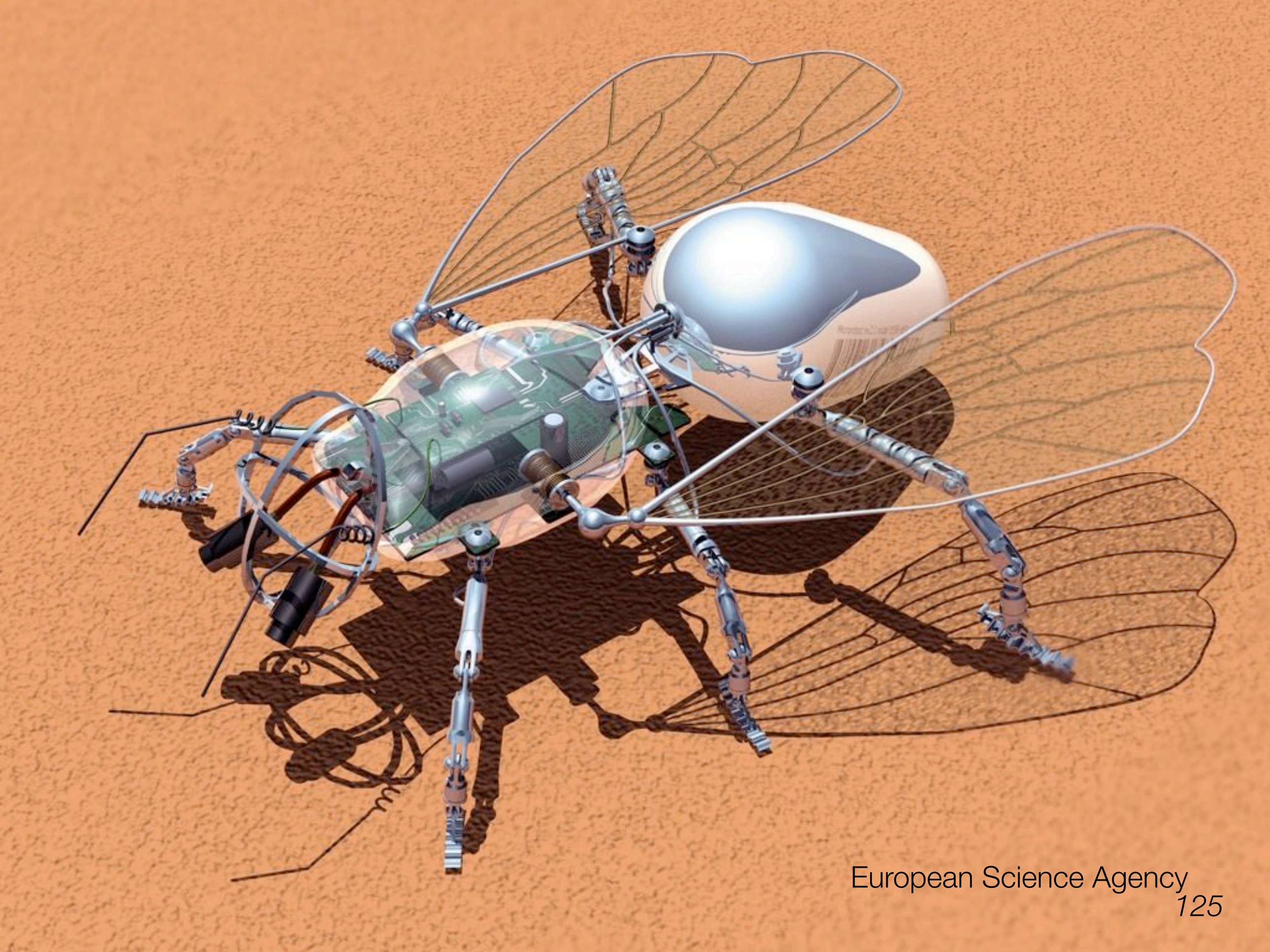
SUBSTRATE



HYBRIDS

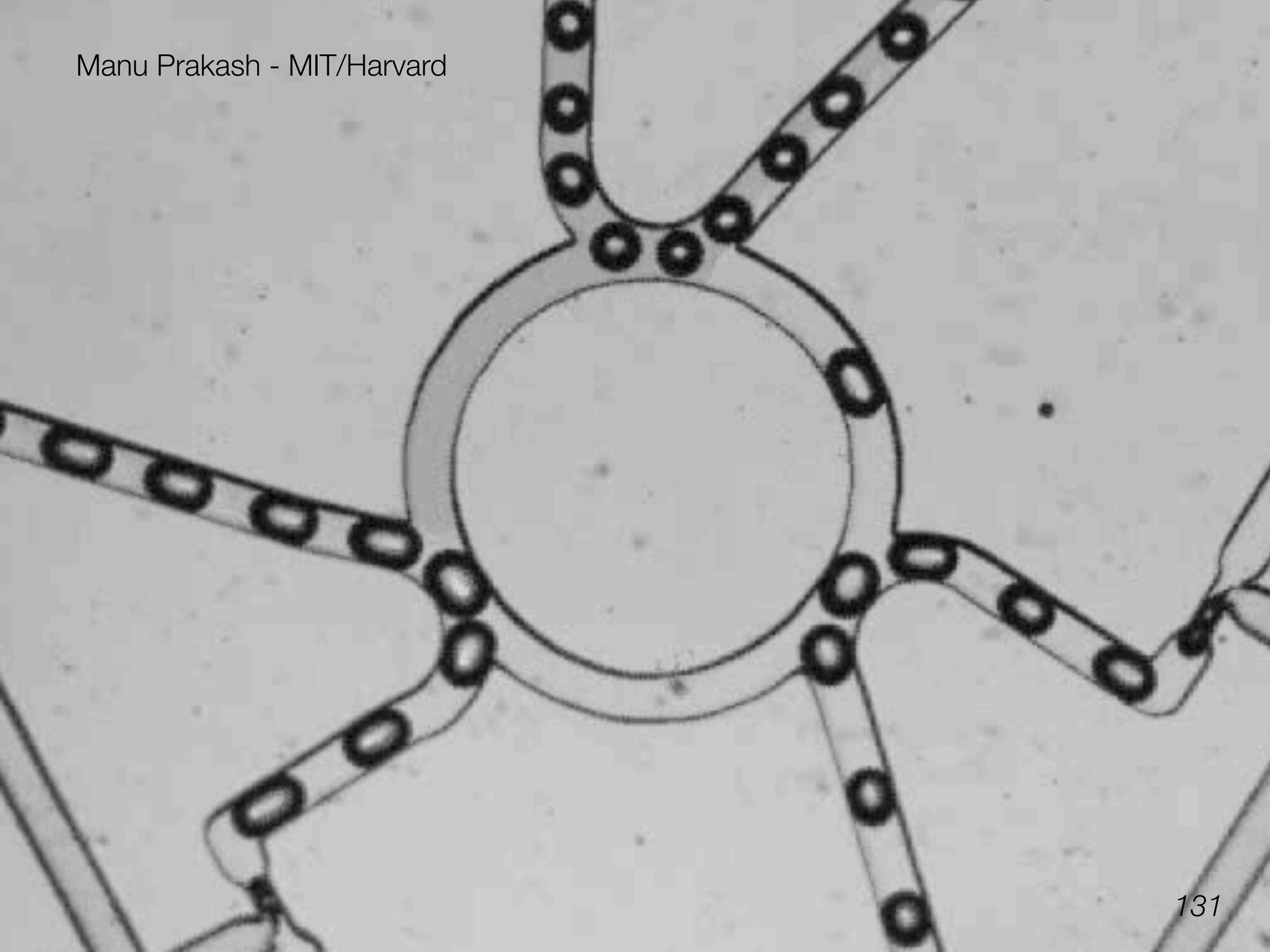
Stefano Mancuso -Plantoirds

BUBBLES

Don Pettit / NASA

BUBBLE LOGICS

Manu Prakash - MIT/Harvard

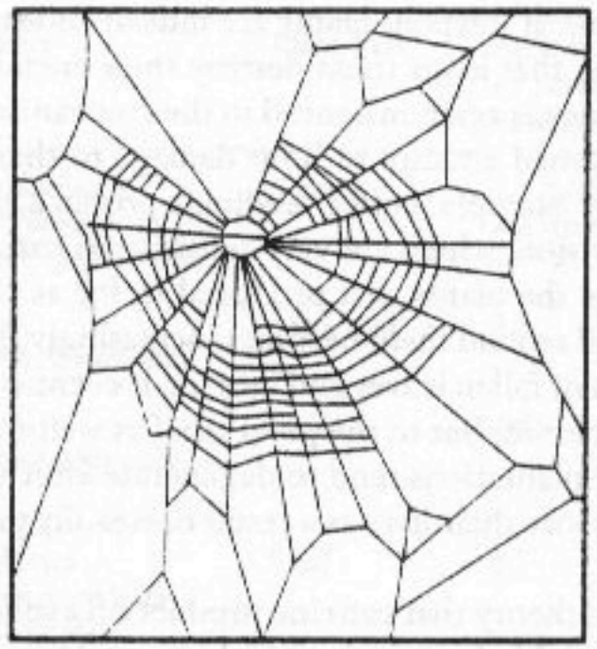


NON-ELECTRICAL COMPUTATION

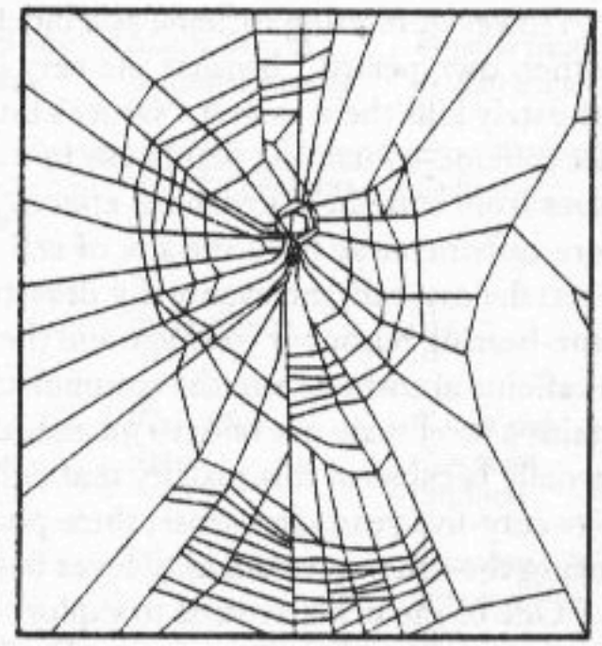
3

PROGRAMMABLE NATURE

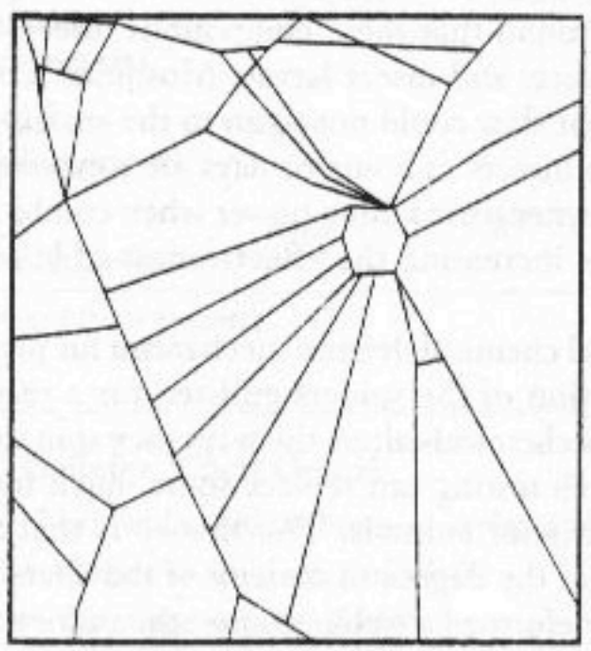
HACKING ANIMALS



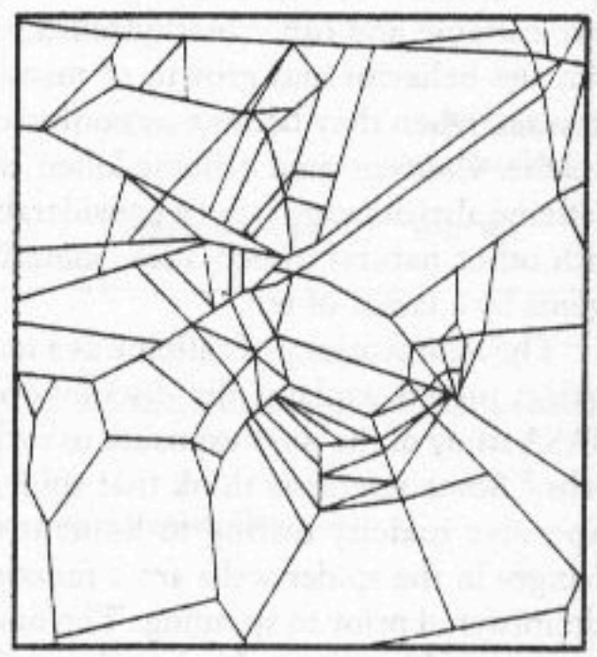
Marijuana



Benzedrine



Chloral Hydrate



Caffeine

PROGRAMMABLE MATTER

HACKING MATTER

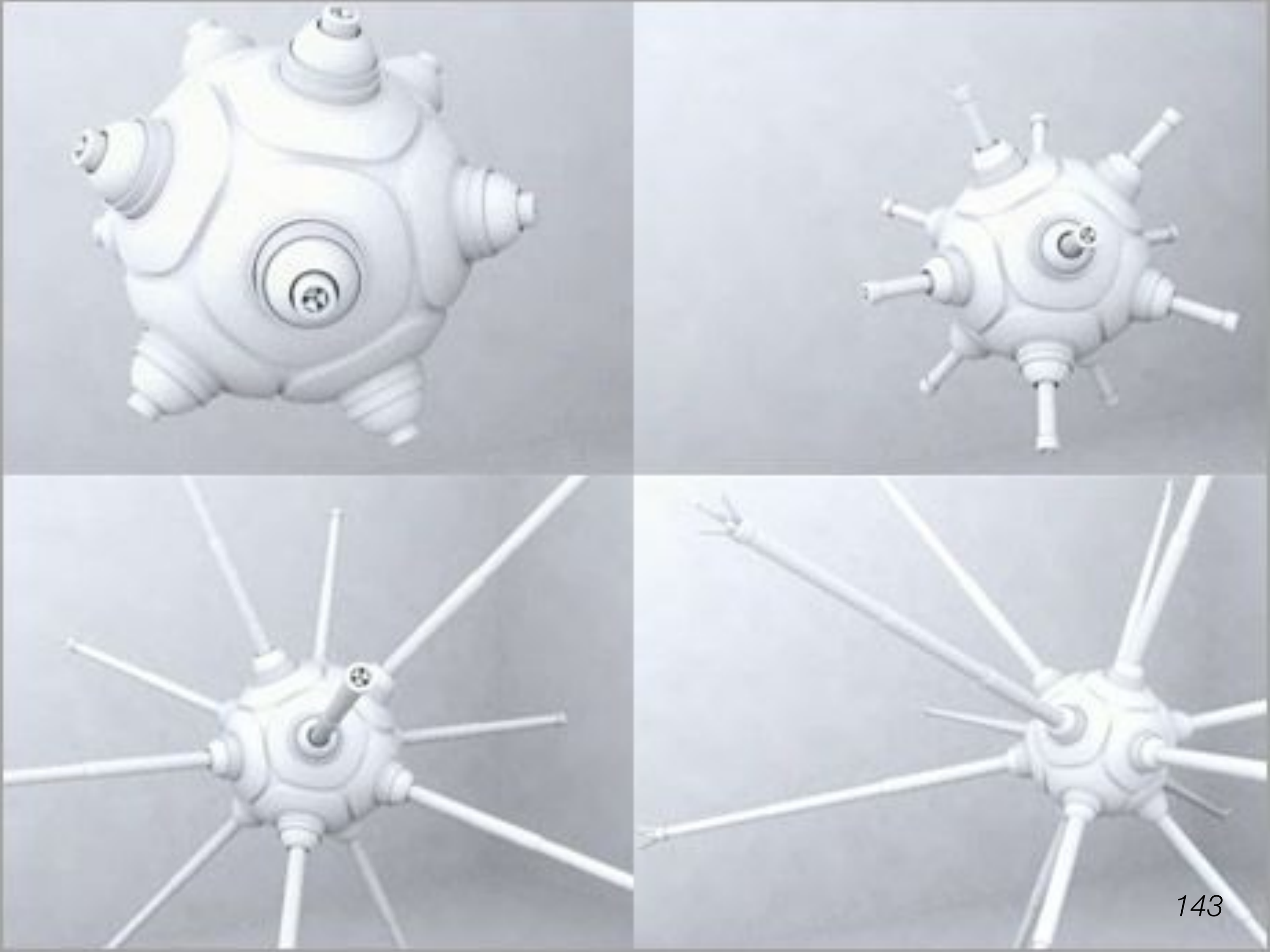
The Flick of a switch: A wall becomes a window becomes a hologram generator. Any chair becomes a hypercomputer, any rooftop a power or waste treatment plant.

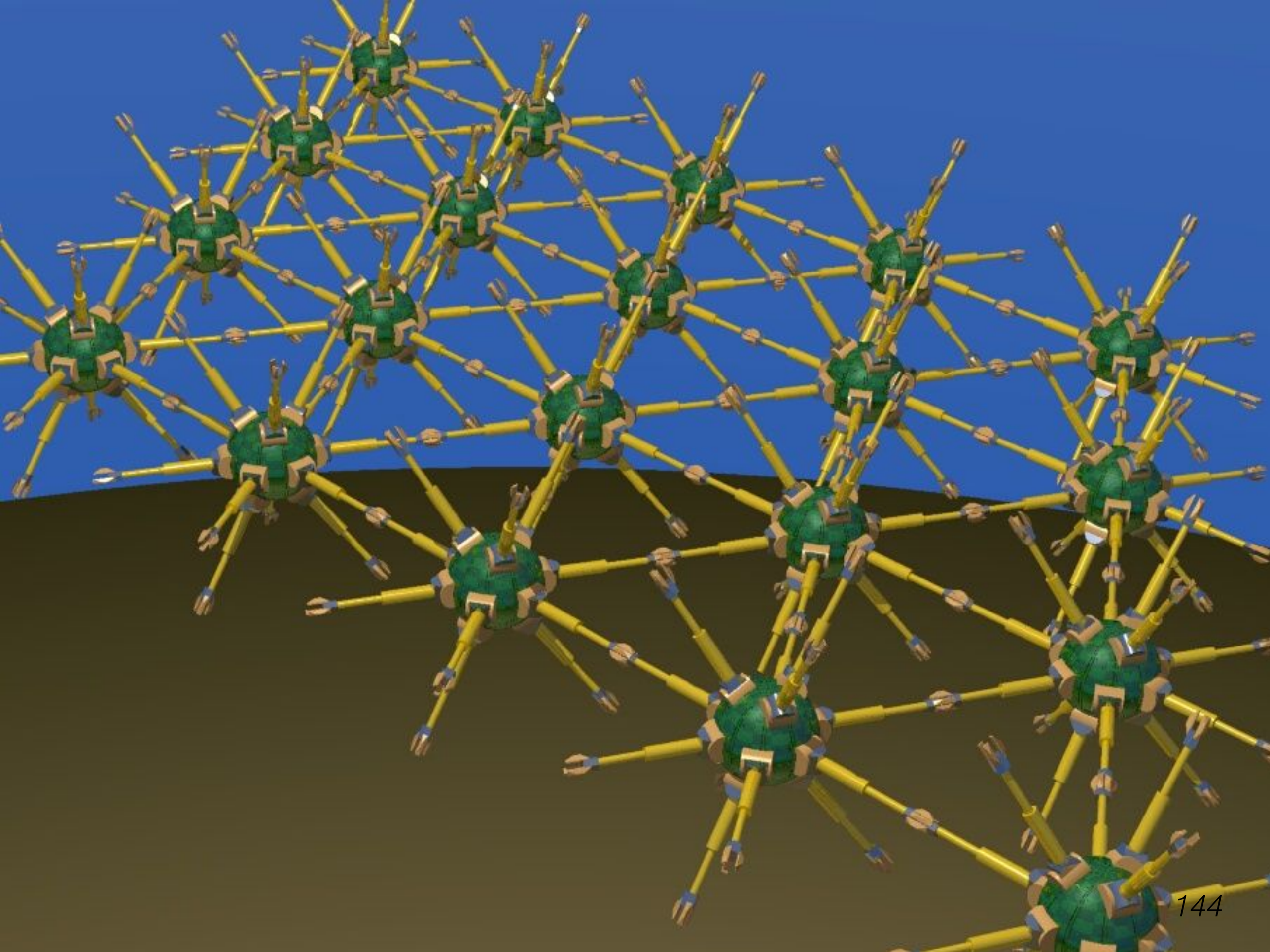
Wil McCarthy

FIGURE 8-2: UTILITY *FOGLET*

This microscopic machine can extend or retract its 12 arms on demand. When connected to millions of similar machines, it creates a "utility fog" of smart matter capable of changing its shape, density, texture, and color. (Image courtesy of J. Storrs Hall)

http://en.wikipedia.org/wiki/Utility_fog





MIND MACHINE PROJECT

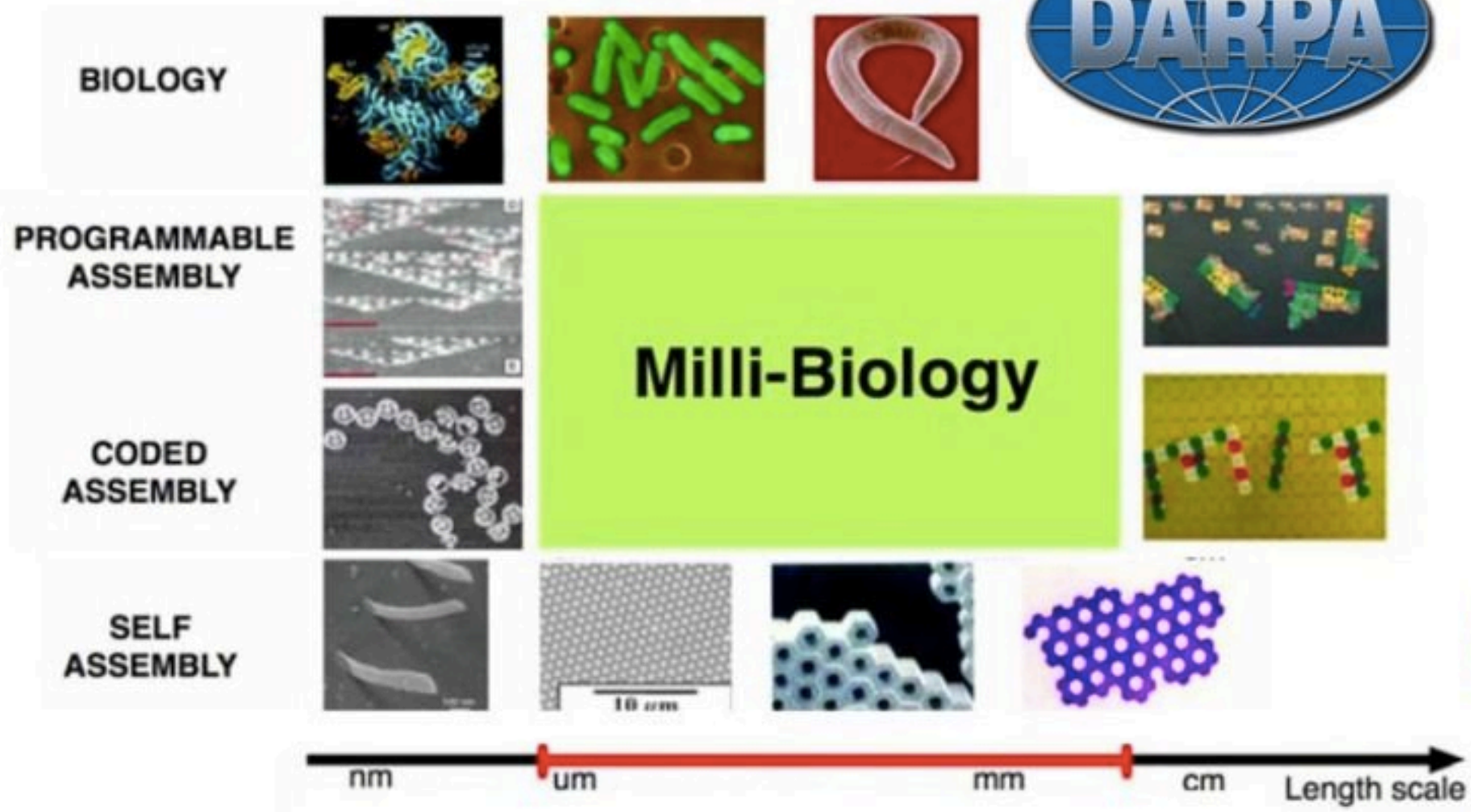
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

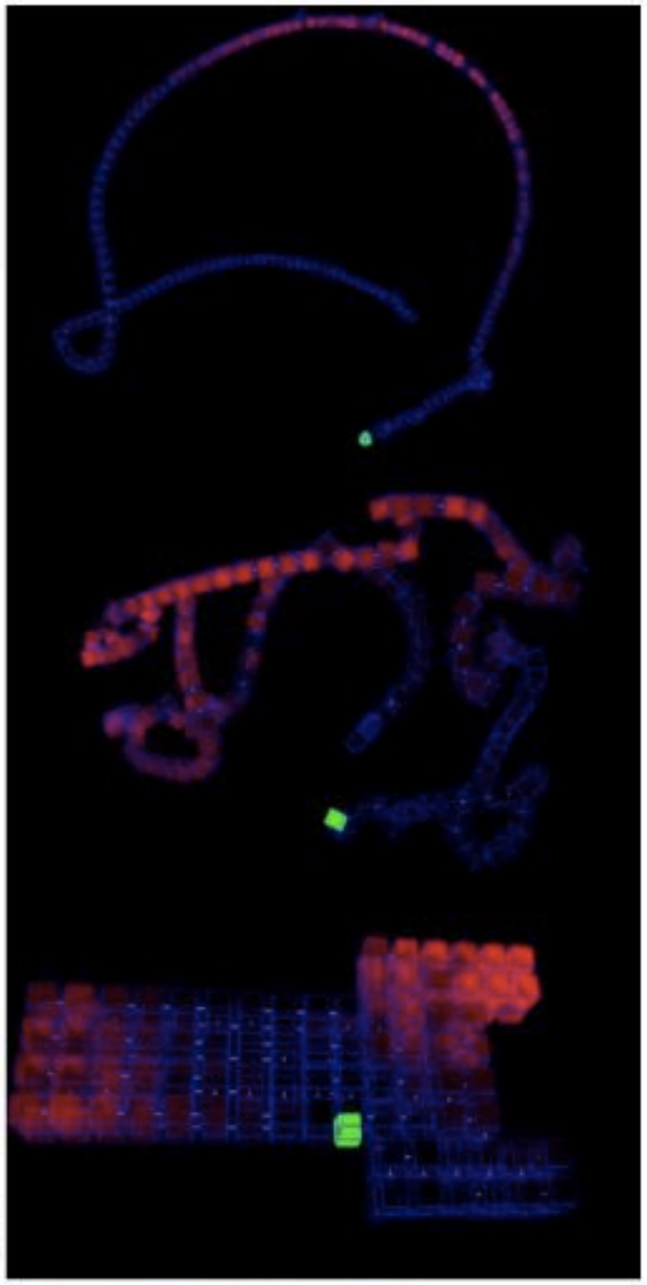
http://mmp.mit.edu/

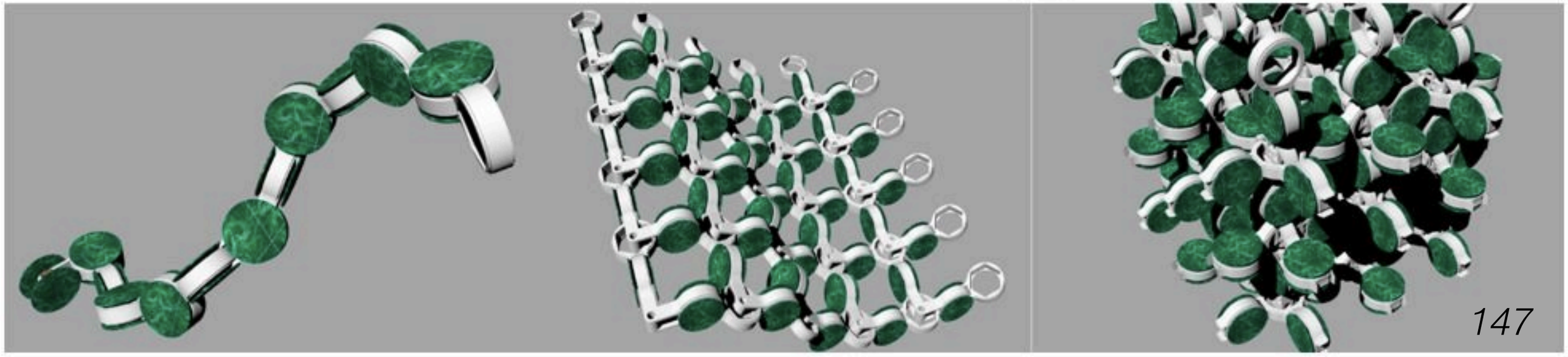
THE CENTER FOR BITS AND ATOMS
Massachusetts Institute of Technology

OTHERlab

DARPA



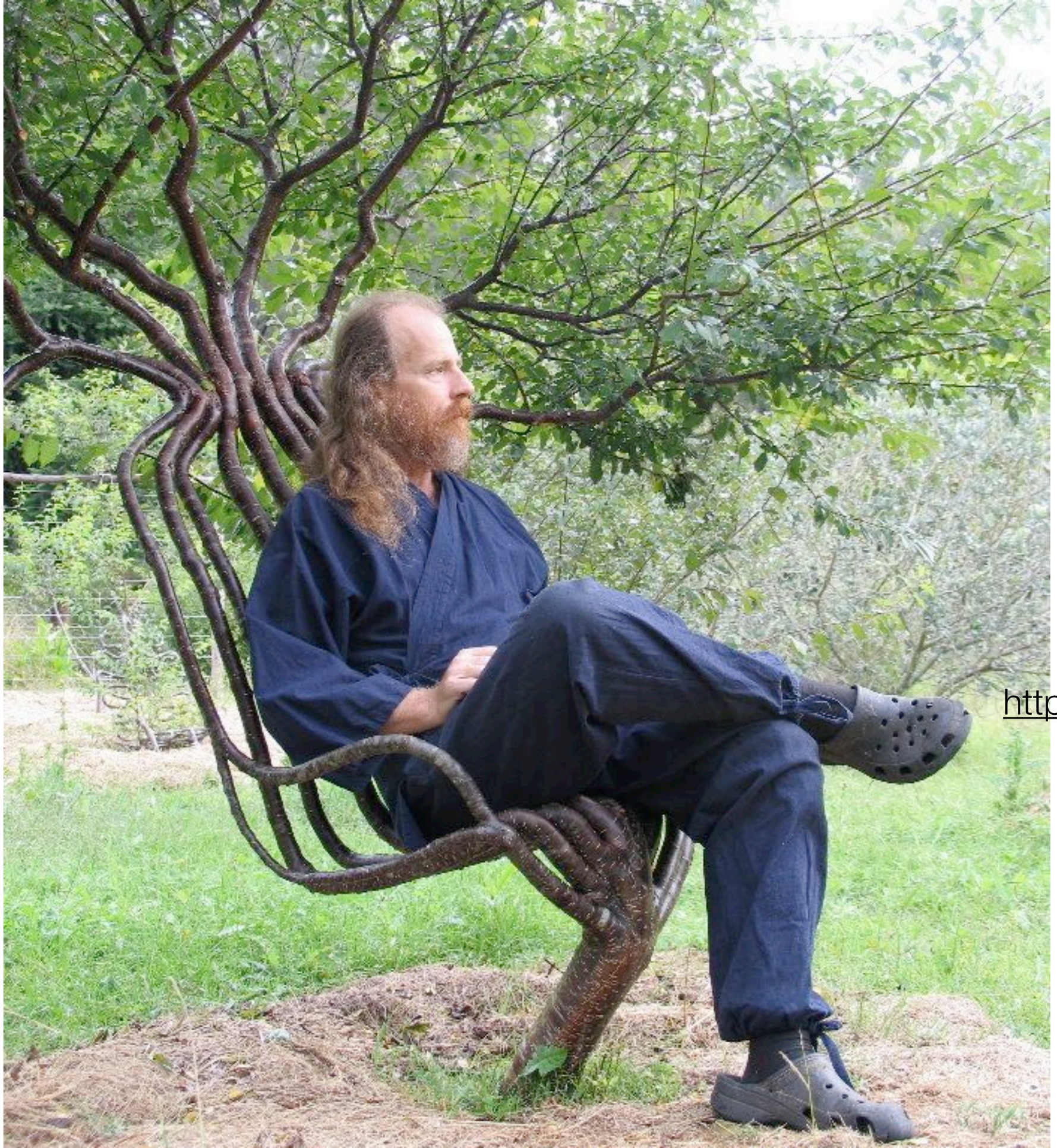




4

GROW IT YOURSELF

http://pooktre.com/



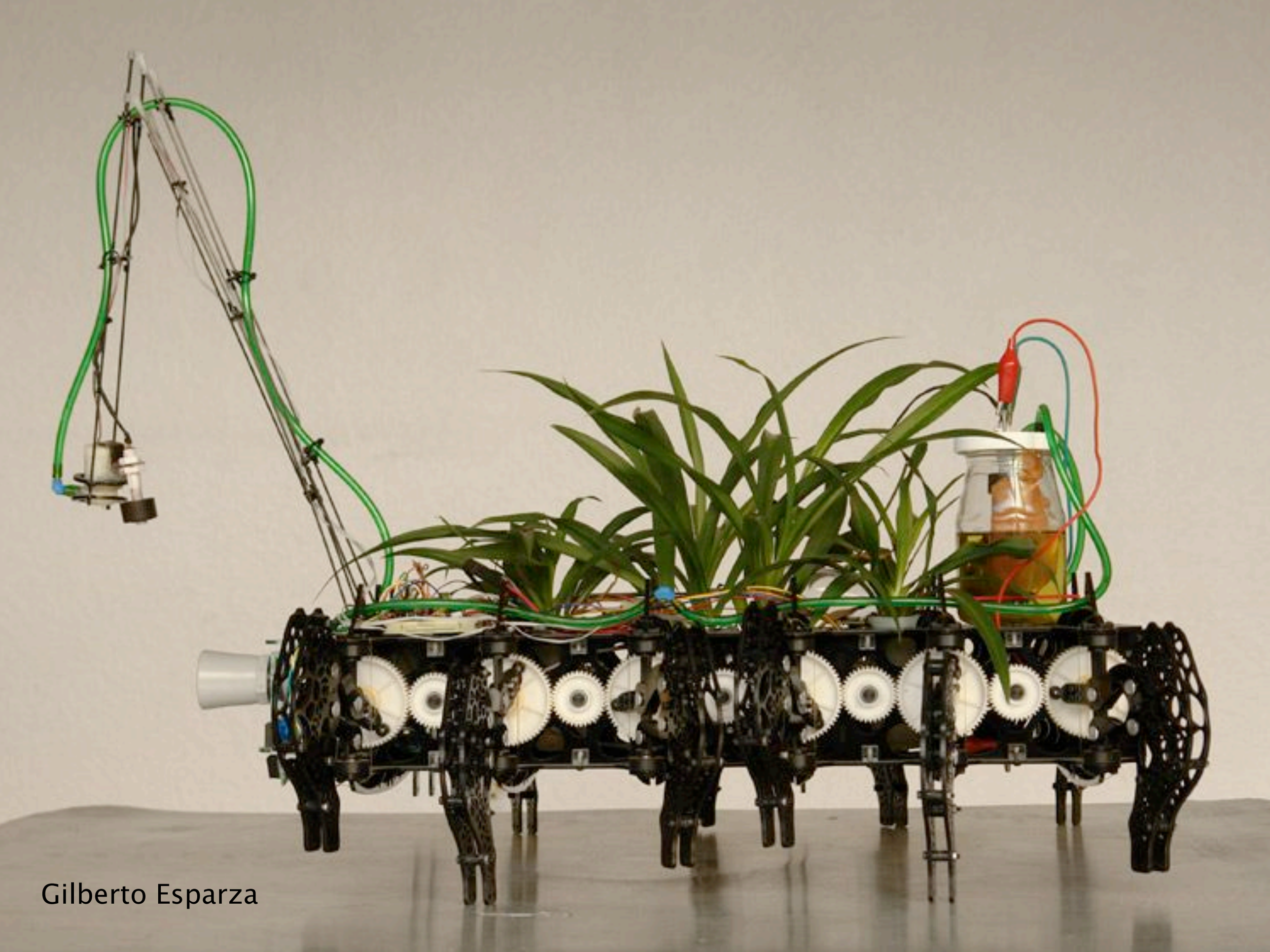
http://pooktre.com/

5

EPHEMERAL INTERVENTIONS

Ken Goldberg

Niklaus Correll / MIT



Gilberto Esparza

Gilberto Esparza

Bam

James Turrell