US00D890268S

(12) **United States Design Patent**
Chen et al.

(10) **Patent No.: US D890,268 S**
(45) **Date of Patent: ** Jul. 14, 2020**

(54) **RECONFIGURABLE TOY VEHICLE**

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(**) Term: **15 Years**

(21) Appl. No.: **29/677,421**

(22) Filed: **Jan. 21, 2019**

(30) **Foreign Application Priority Data**

Sep. 5, 2018 (CN) 2018 3 0498224

(51) **LOC (12) Cl.** **21-01**

(52) **U.S. Cl.**
USPC **D21/581**; D21/552; D21/579

(58) **Field of Classification Search**
USPC D21/483, 533–562, 426, 433, 434, D21/578–580; 446/93, 95, 99, 376
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,516,948 A * 5/1985 Obara A63H 33/003 446/376
D279,591 S * 7/1985 Ogawa 446/376
(Continued)

FOREIGN PATENT DOCUMENTS

CN 304904299 * 12/2017

OTHER PUBLICATIONS

Robosen T9, announced Mar. 25, 2019 [Online], [Site visited Mar. 3, 2020] Available From Internet, URL:<https://www.kickstarter.com/projects/890011357/the-worlds-first-intelligent-auto-transforming-rob> (Year: 2019).*
(Continued)

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(57) **CLAIM**

The ornamental design for a reconfigurable toy vehicle, as shown and described.

DESCRIPTION

The file of this patent contains at least one drawing/photograph executed in color. Copies of this patent with color drawing(s)/photograph(s) will be provided by the Office upon request and payment of the necessary fee.
FIG. **1** is a front elevation view of a reconfigurable toy vehicle showing our new design;
FIG. **2** is a rear elevation view thereof;
FIG. **3** is a left elevation view thereof;
FIG. **4** is a right elevation view thereof;
FIG. **5** is a top plan view thereof;
FIG. **6** is a bottom plan view thereof;
FIG. **7** is a front perspective view thereof;
FIG. **8** is a top perspective view thereof;
FIG. **9** is a bottom perspective view thereof;
FIG. **10** is another bottom perspective view thereof;
FIG. **11** is a front elevation view of the design shown in FIGS. **1-10** in a robotic humanoid configuration;
FIG. **12** is a rear elevation view thereof;
FIG. **13** is a right elevation view thereof;
FIG. **14** is a left elevation view thereof;
FIG. **15** is a top plan view thereof;
FIG. **16** is a bottom plan view thereof;
FIG. **17** is a rear perspective view thereof;
FIG. **18** is a front perspective view thereof;
FIG. **19** is a bottom perspective view thereof; and,
FIG. **20** is another bottom perspective view thereof.
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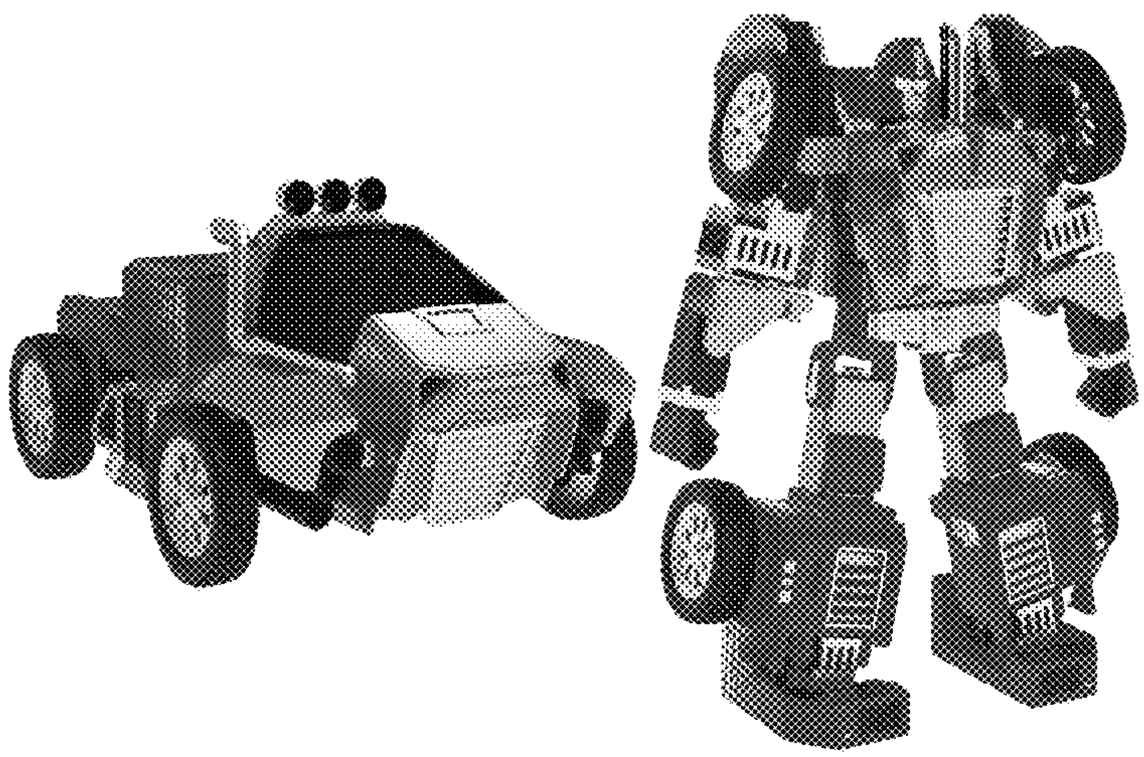


The design is reconfigurable from a vehicle to a robotic humanoid.

1 Claim, 20 Drawing Sheets
(20 of 20 Drawing Sheet(s) Filed in Color)

(58) **Field of Classification Search**
CPC A63H 33/003; A63H 17/00; A63H 17/02; A63H 17/002; A63H 17/262; A63H 3/20; A63H 3/46
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D279,592	S	*	7/1985	Ogawa	446/376
4,571,201	A	*	2/1986	Matsuda	A63H 33/003 124/27
4,571,203	A	*	2/1986	Murakami	A63H 33/003 446/376
4,578,046	A	*	3/1986	Ohno	A63H 33/003 446/376
4,599,078	A	*	7/1986	Obara	A63H 33/003 446/376
D287,520	S	*	12/1986	Yoke	D16/131
D287,521	S	*	12/1986	Obara	D14/163
D292,425	S	*	10/1987	Lim	D21/581
D297,956	S	*	10/1988	Shibukawa	D21/580
D301,352	S	*	5/1989	Doi	D21/581
D301,355	S	*	5/1989	Doi	D21/581
D301,358	S	*	5/1989	Kunihiro	D21/582
D301,505	S	*	6/1989	Kunihiro	D21/581
D305,786	S	*	1/1990	Ohno	D21/579
D305,917	S	*	2/1990	Shibukawa	D21/584
D311,041	S	*	10/1990	Shinohara	D21/580
D311,042	S	*	10/1990	Ikeda	D21/581
D424,133	S	*	5/2000	Hollis	D21/552
2009/0209168	A1	*	8/2009	Ejima	A63H 17/02 17/2

OTHER PUBLICATIONS

Robosen transforming man Robot, published on Oct. 18, 2018 by Robosen Global, YouTube, [Online], [Site visited Mar. 3, 2020] Available From Internet, URL:<https://www.youtube.com/watch?v=iC5uXxwuR3A> (Year: 2020).*

Real Transformer Robosen T9 Transforming Bot Vehicle Car Robot Toy, published on Feb. 12, 2019 by [토이팩토리] ToyFactory(장난감 TW) YouTube, [Online], [Site visited Mar. 3, 2020] Available From Internet, URL:<https://www.youtube.com/watch?v=ZAeBRDS3WxA&vl=en> (Year: 2019).*

* cited by examiner

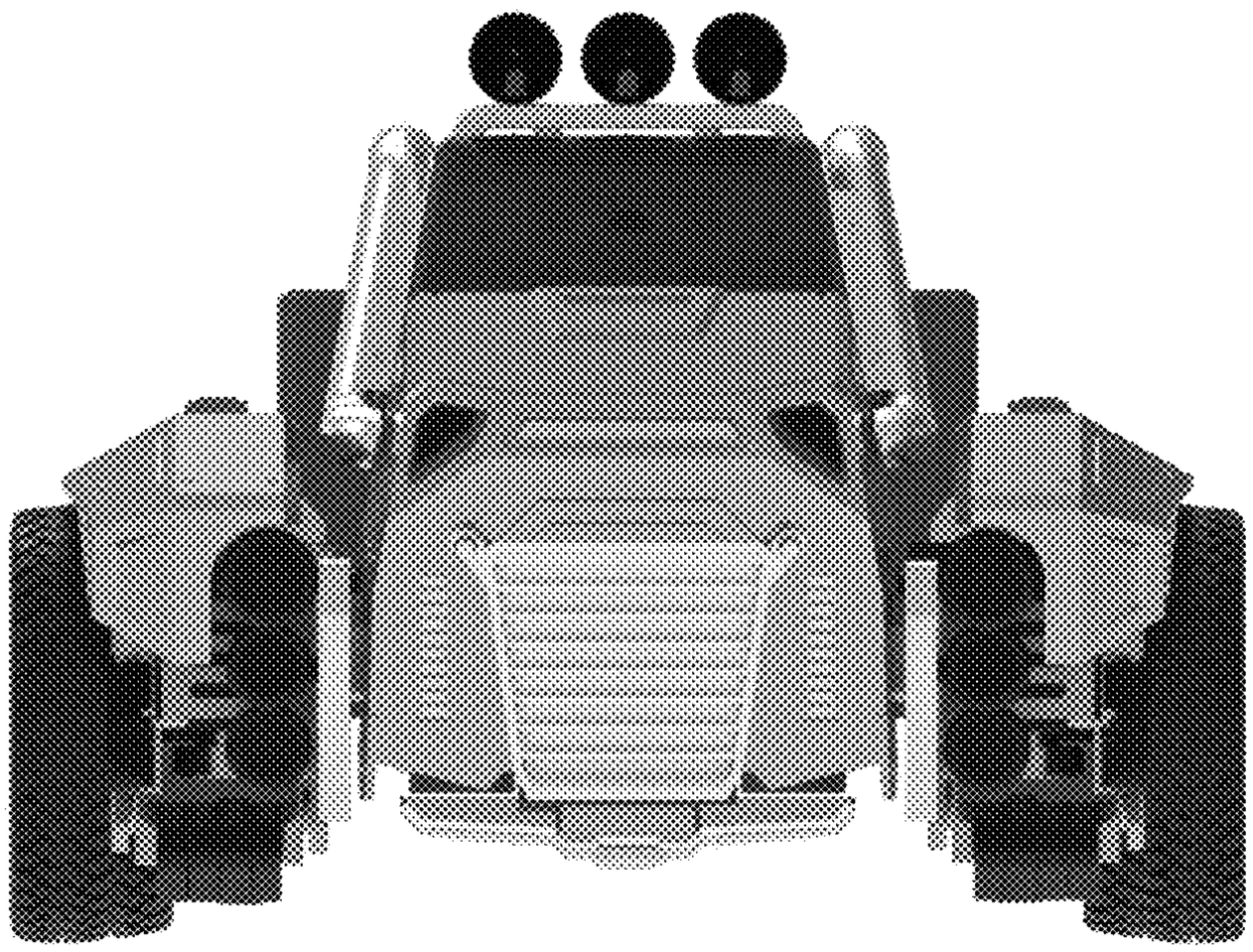


Fig. 1

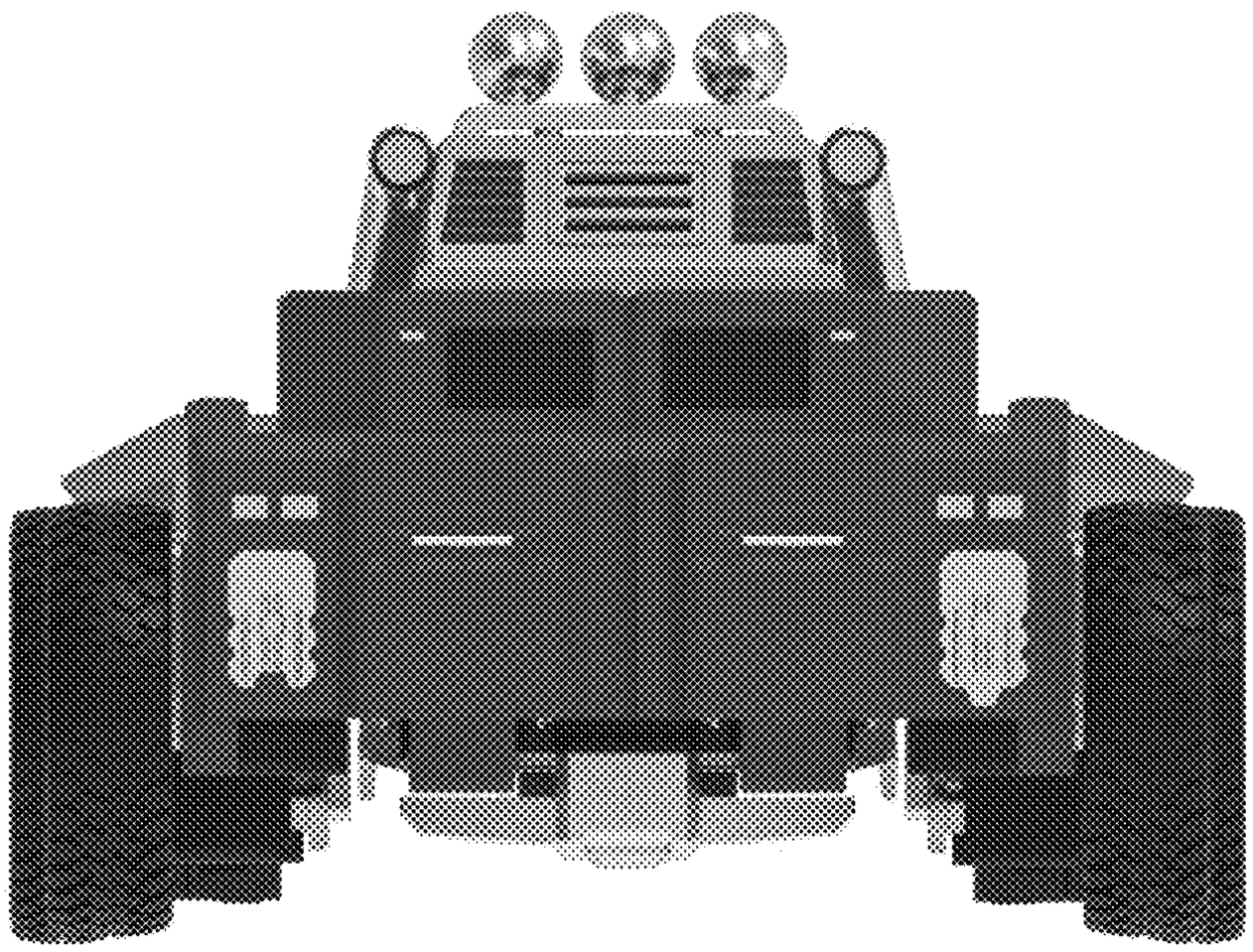


Fig. 2

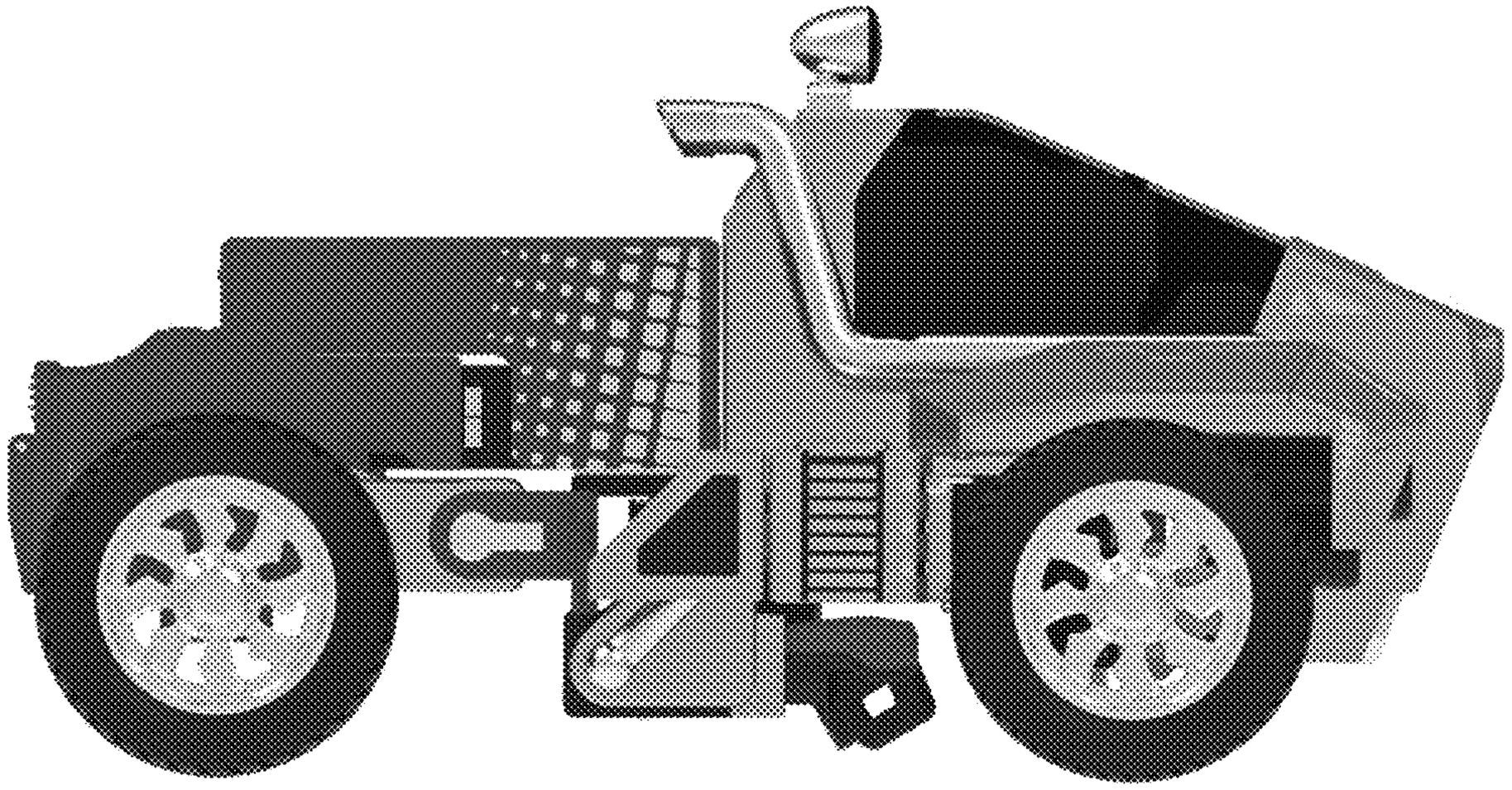


Fig. 3

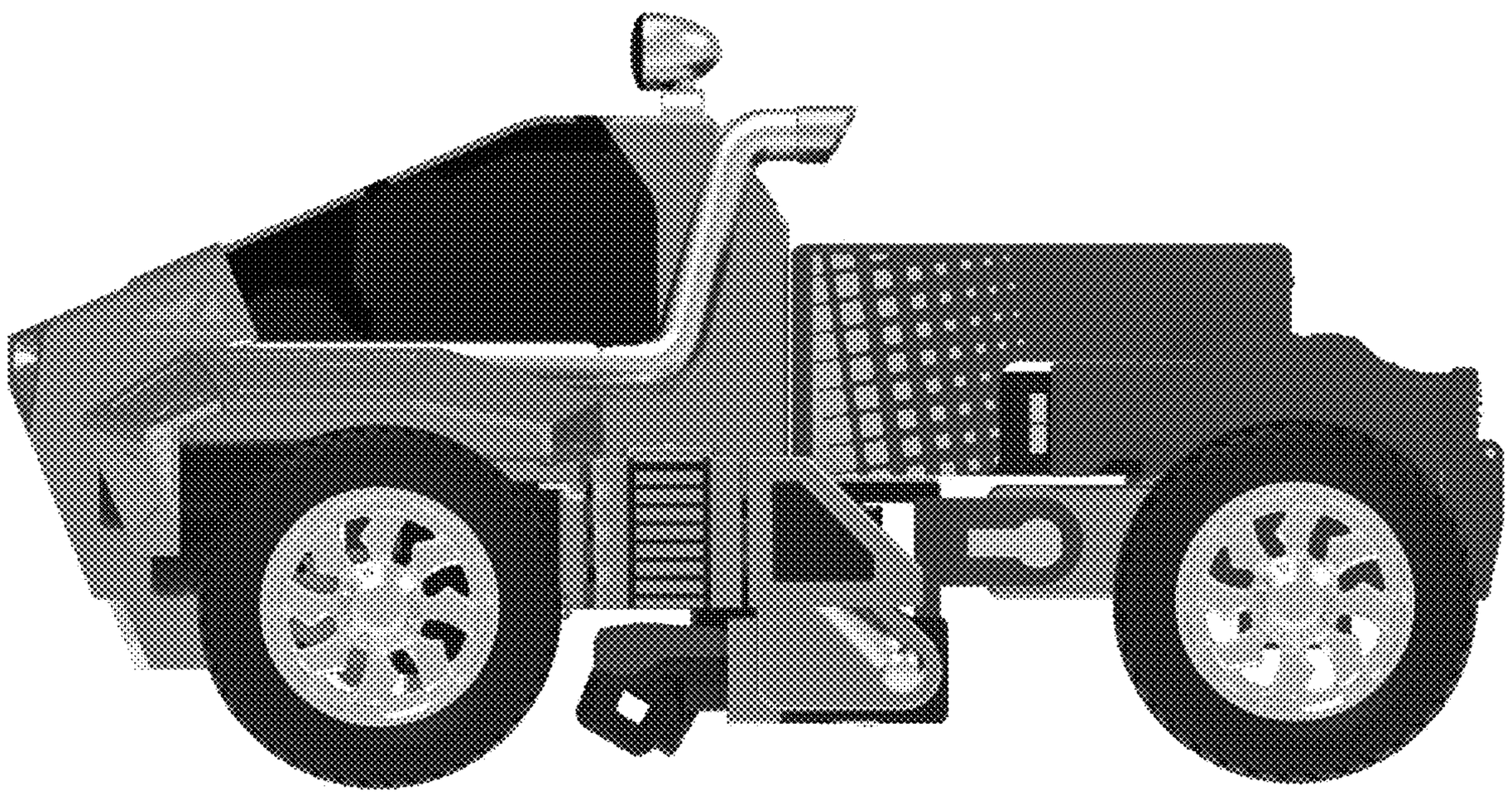
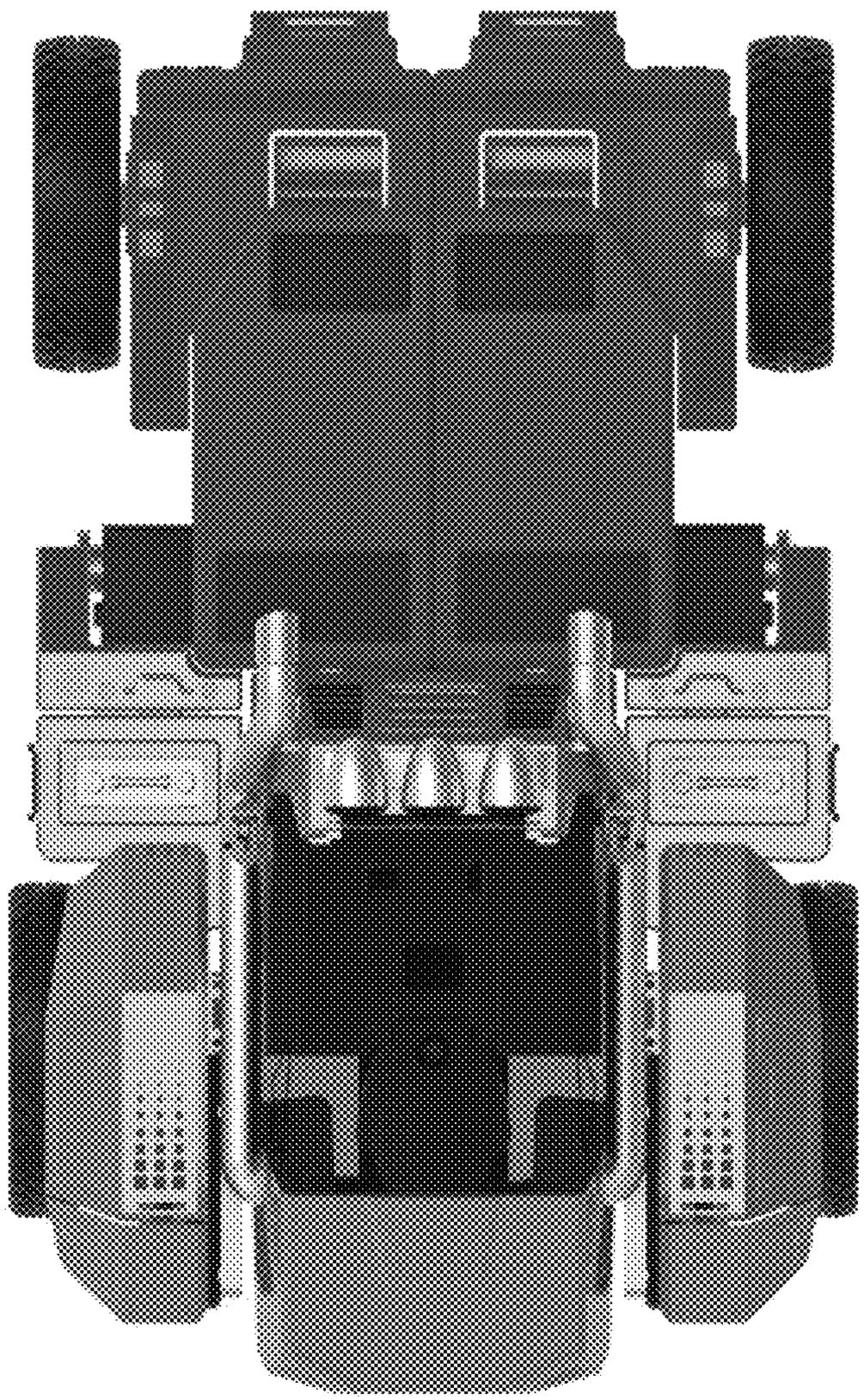


Fig. 4



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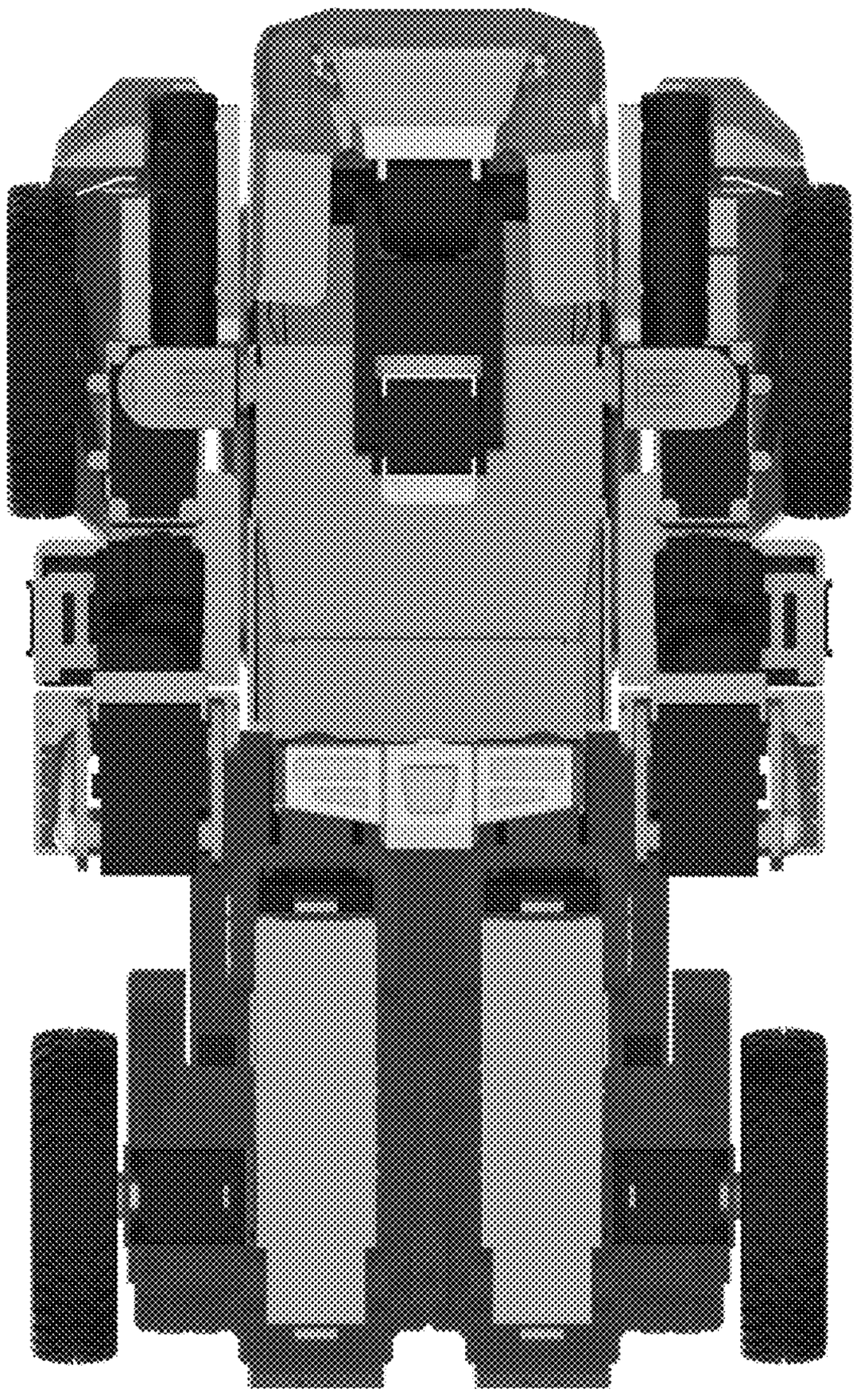

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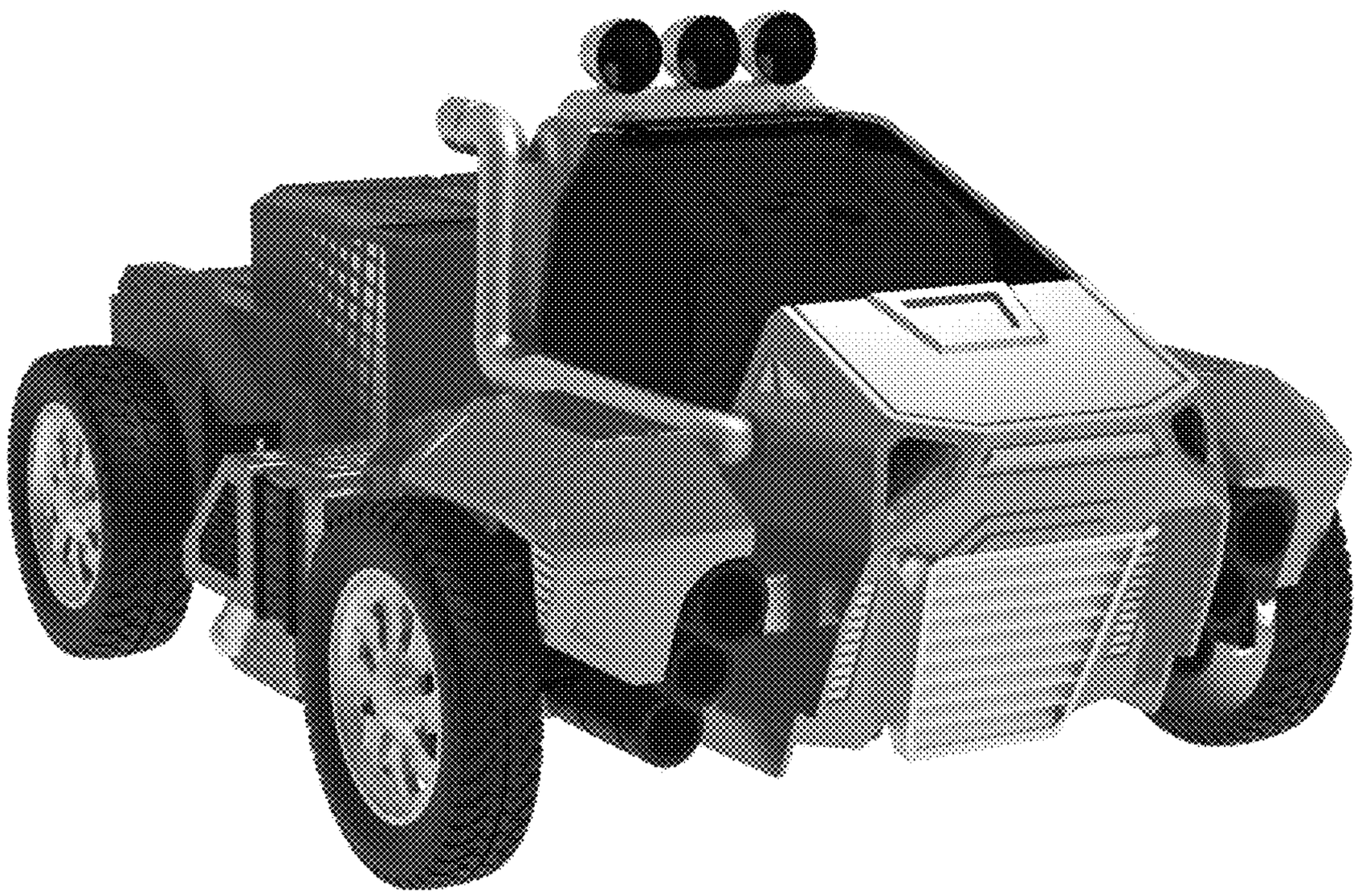
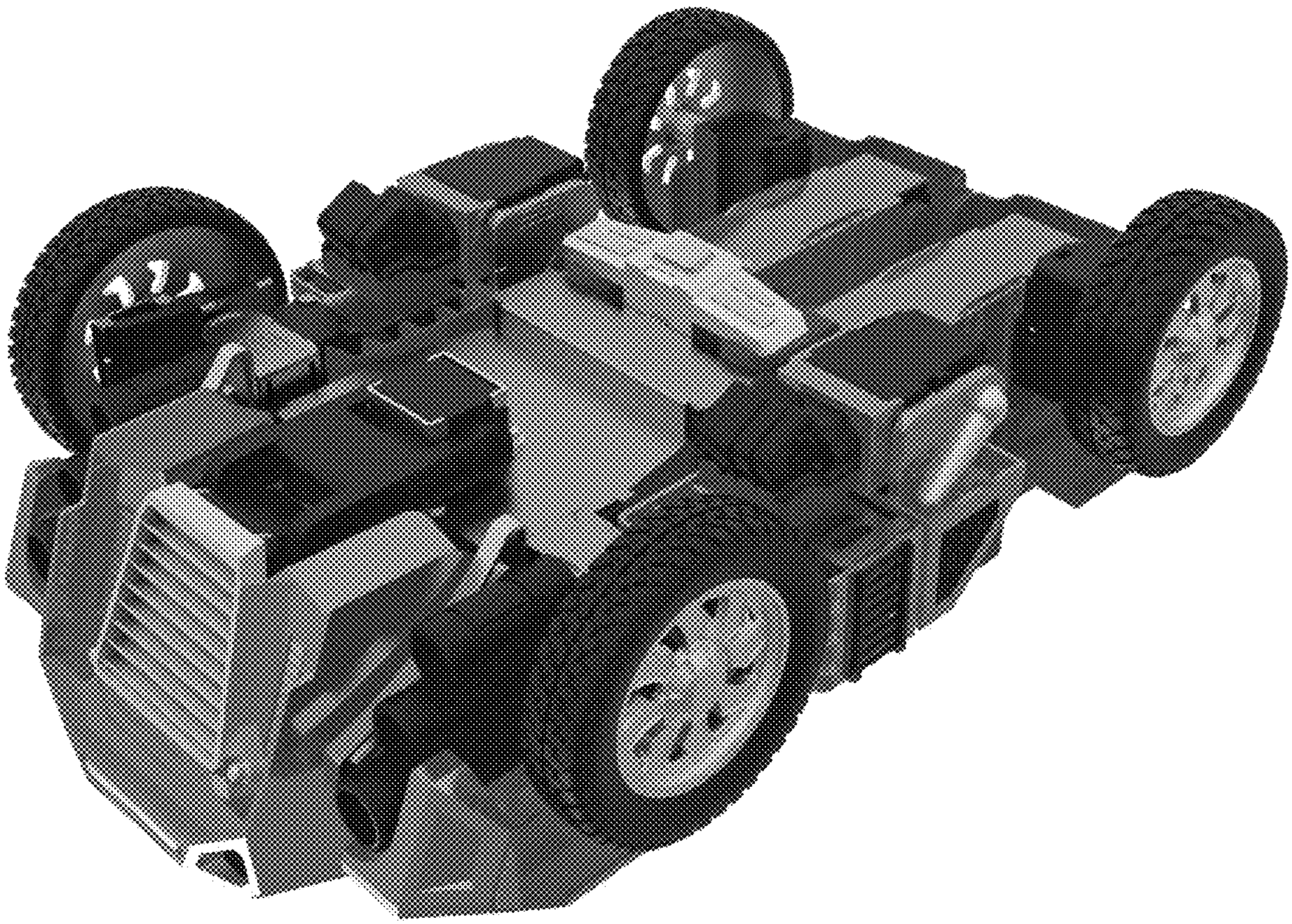


Fig. 7

Fig. 8



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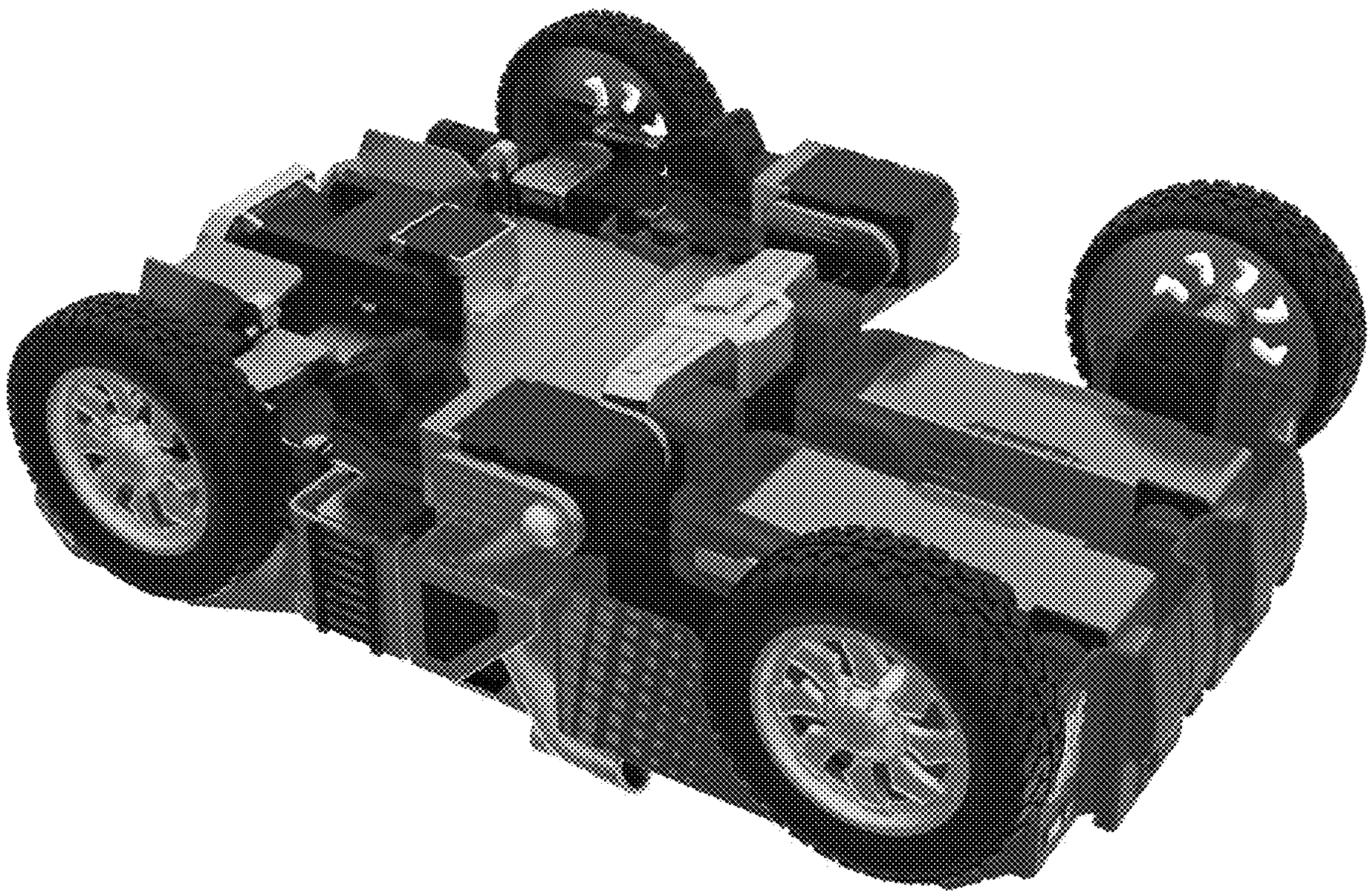


Fig. 10

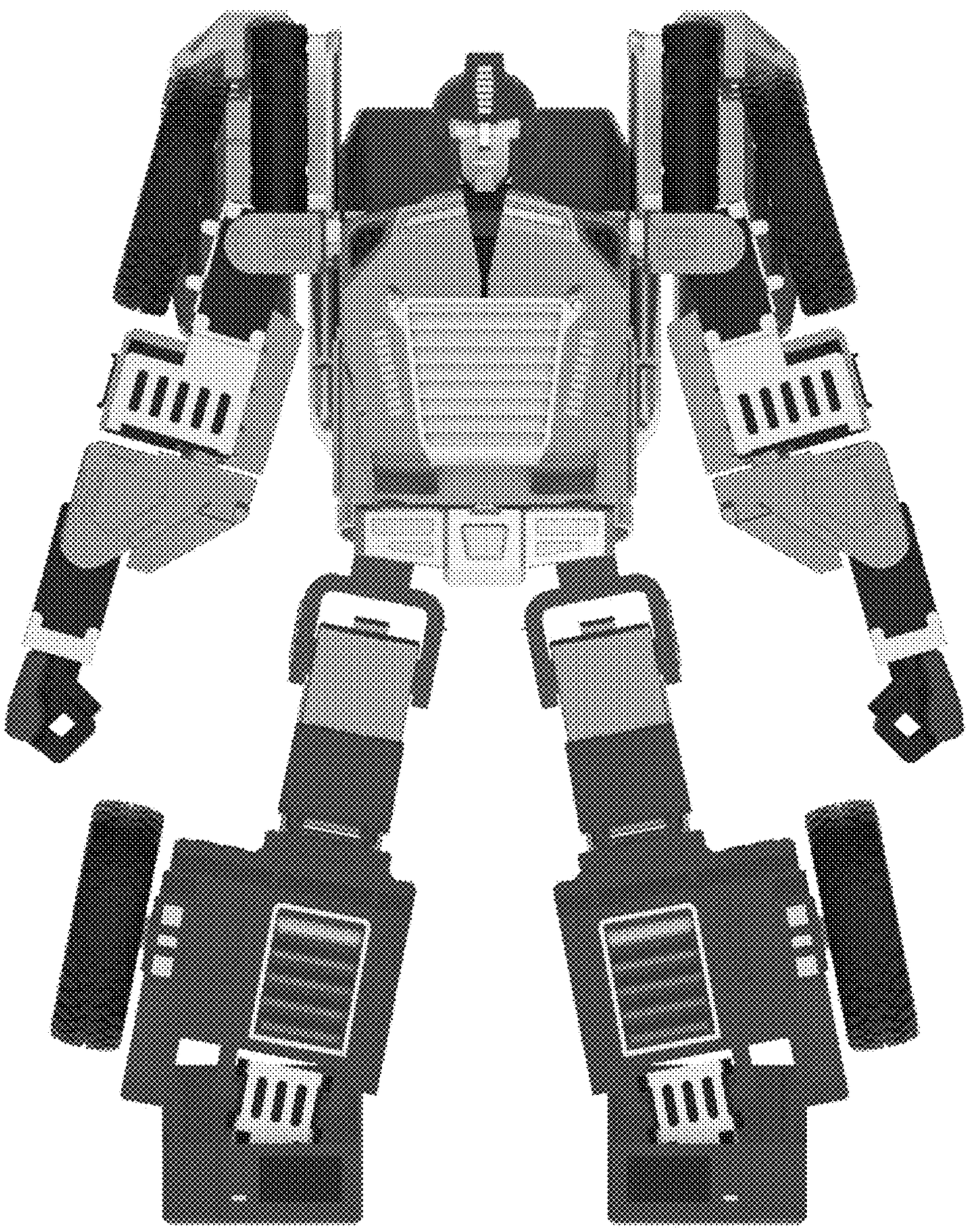
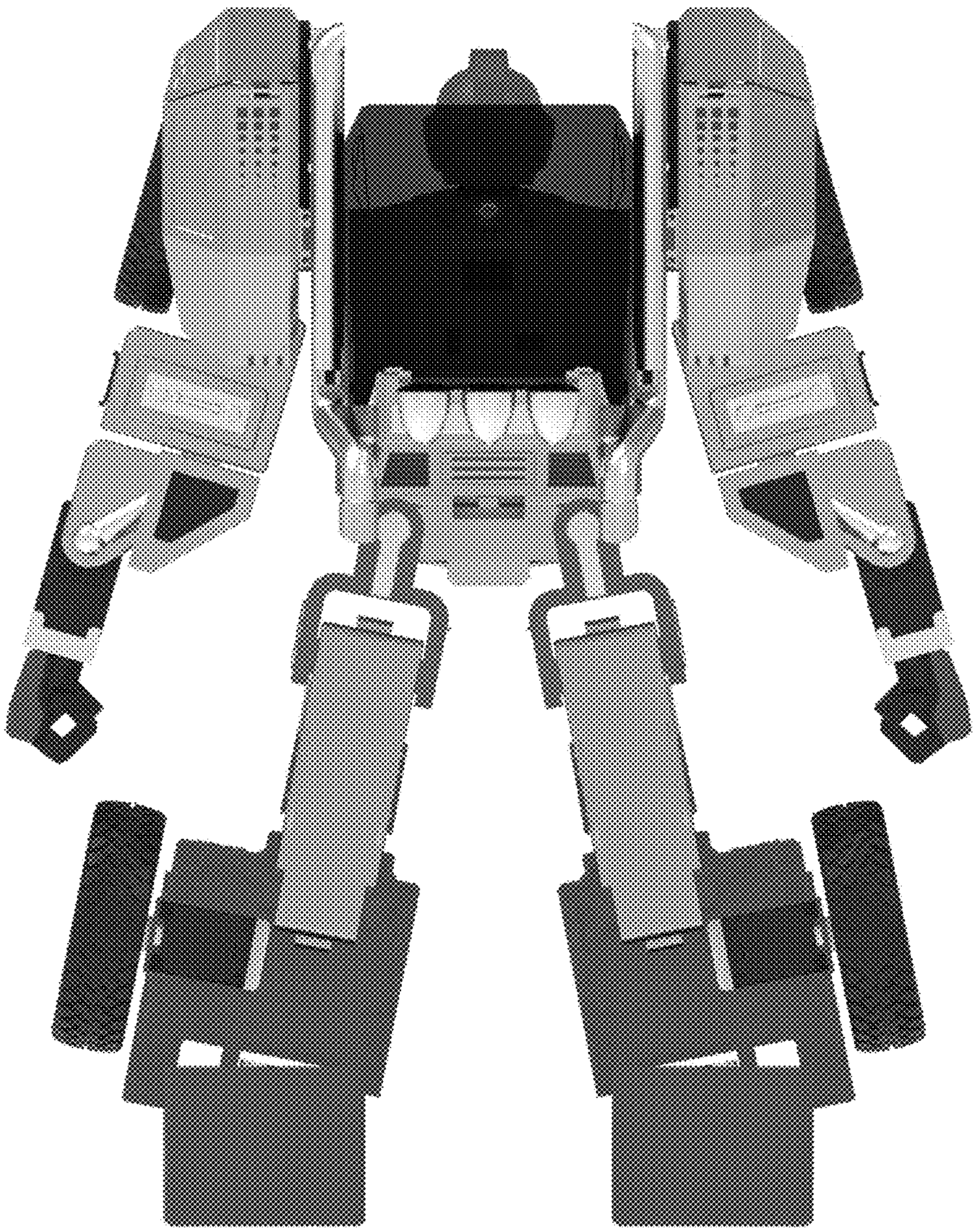


Fig. 11



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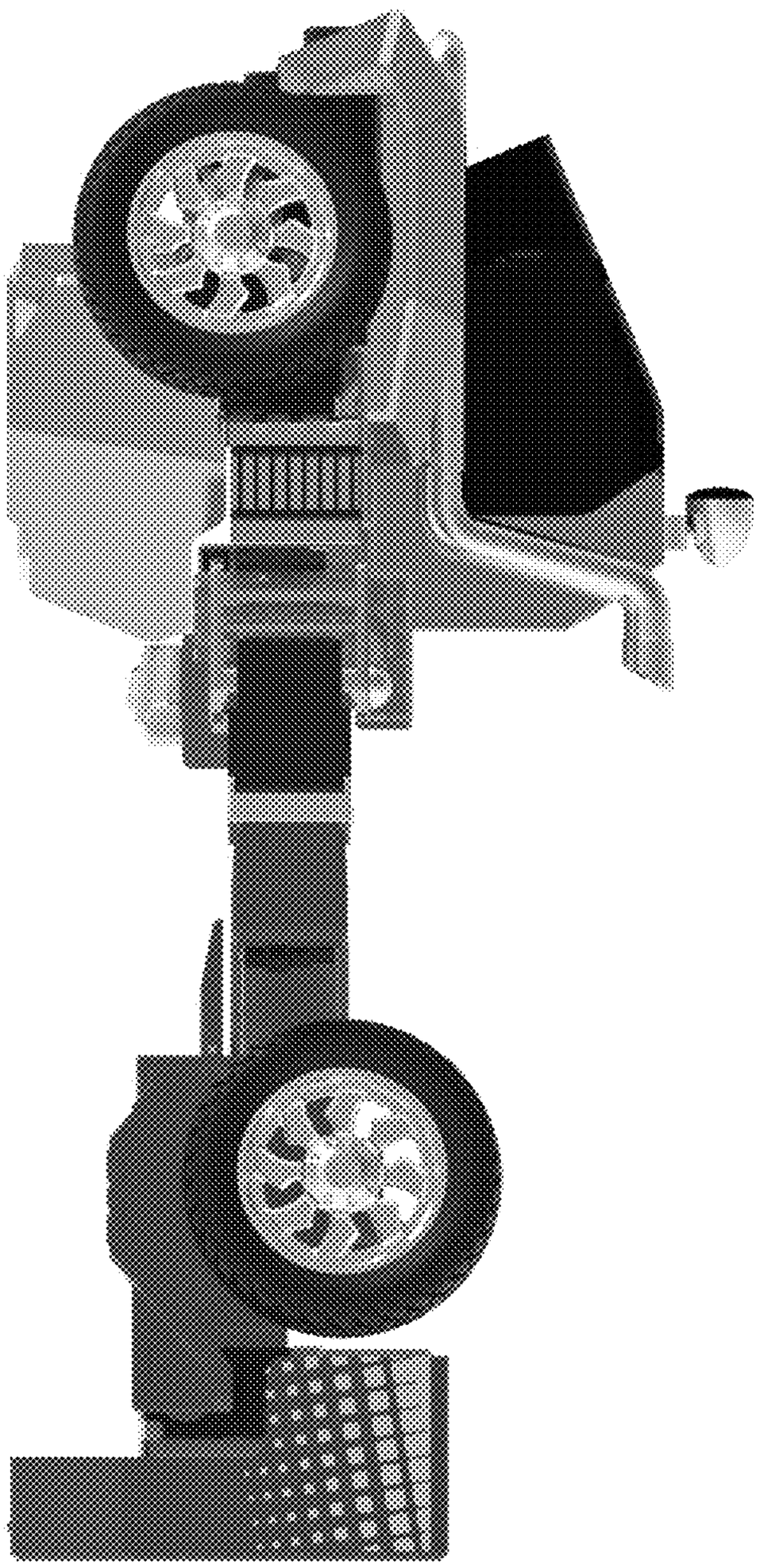

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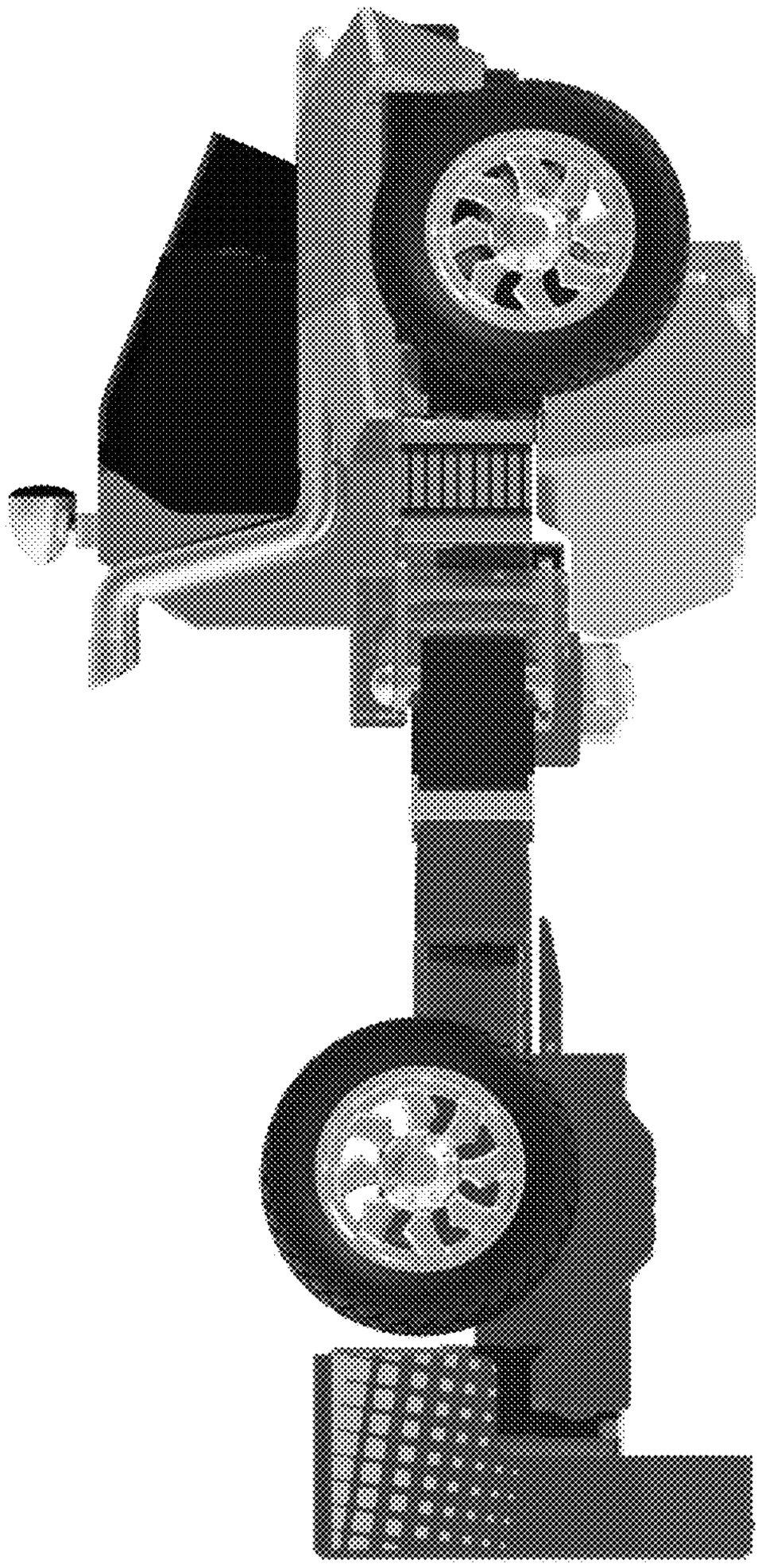

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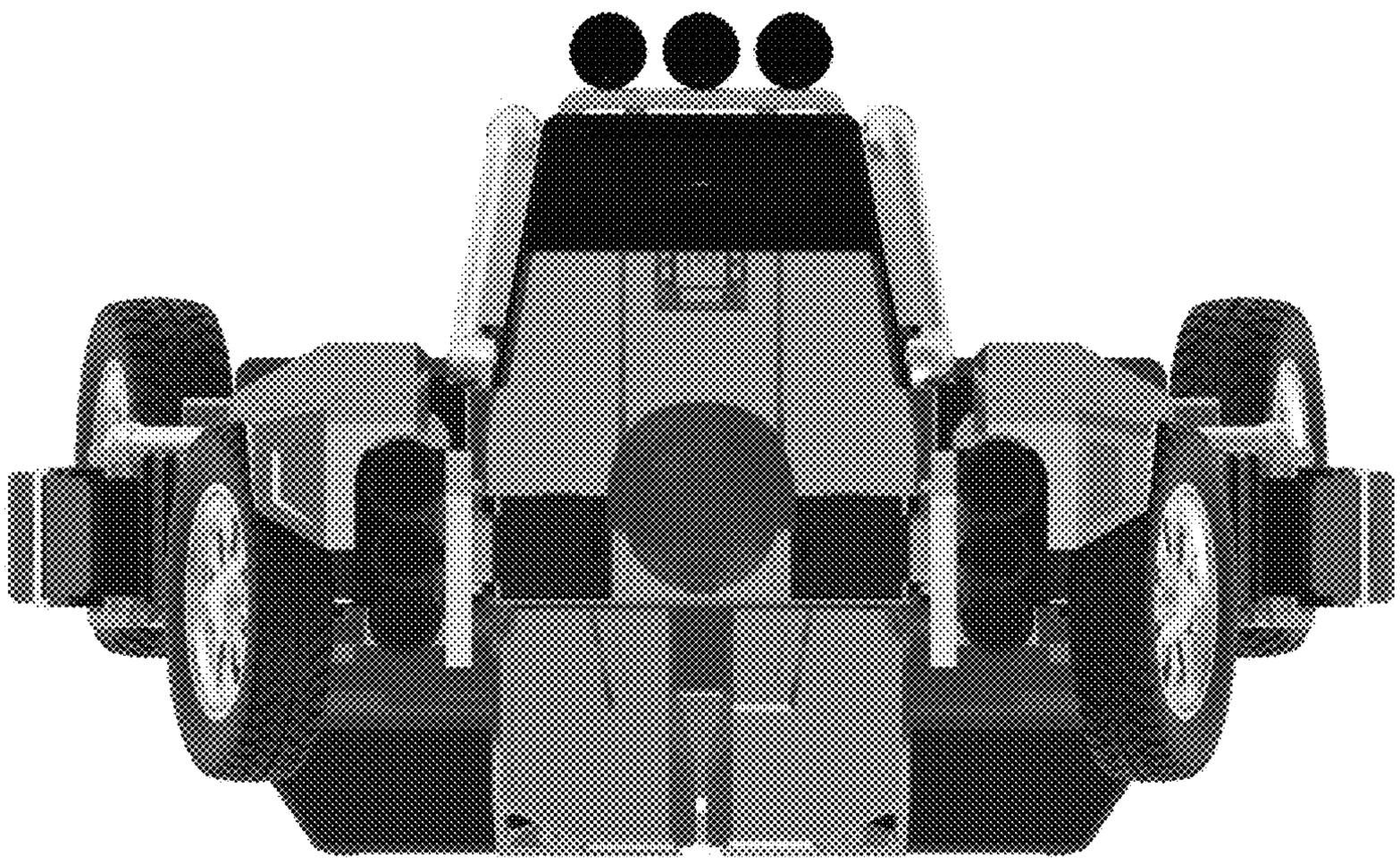

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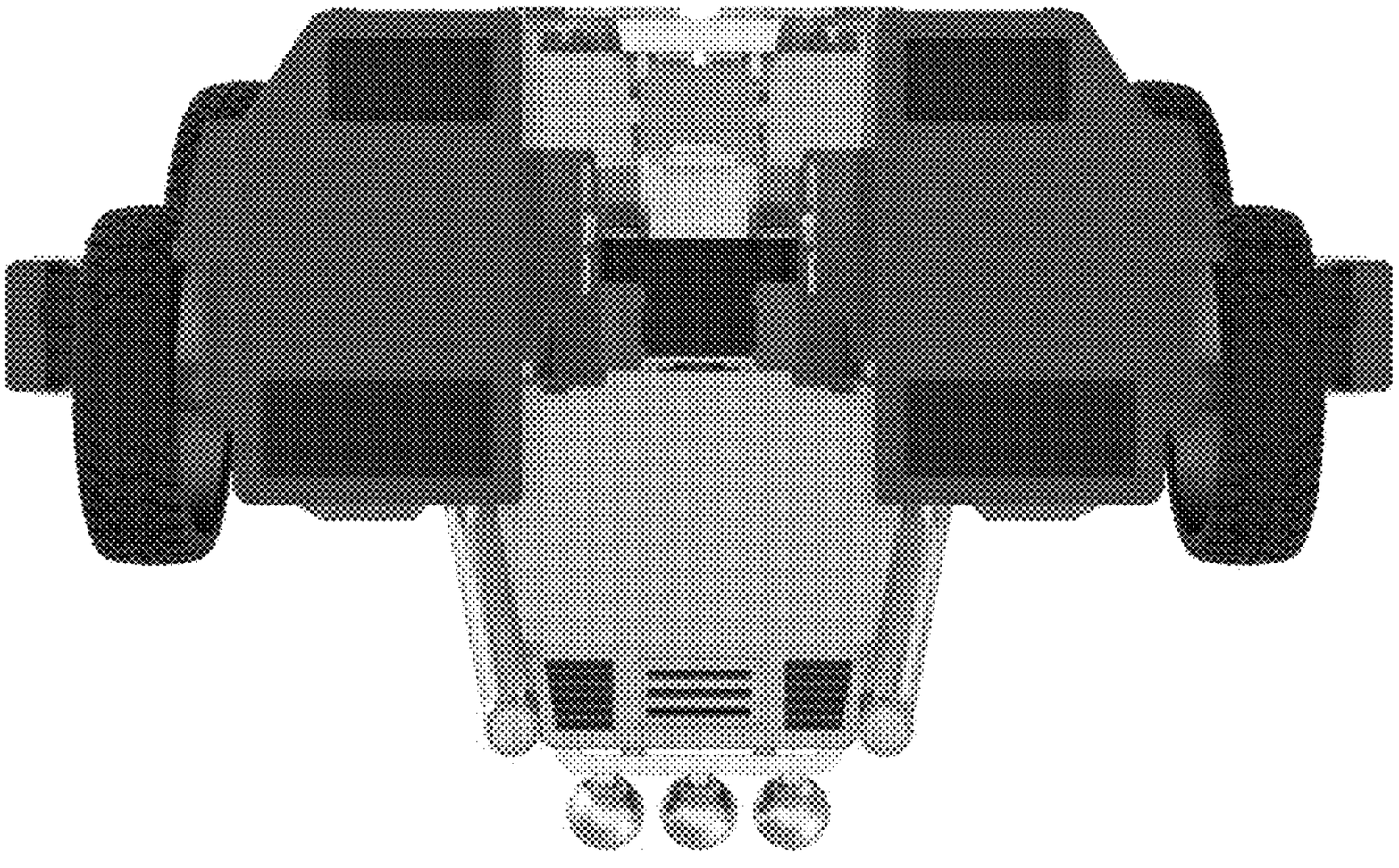

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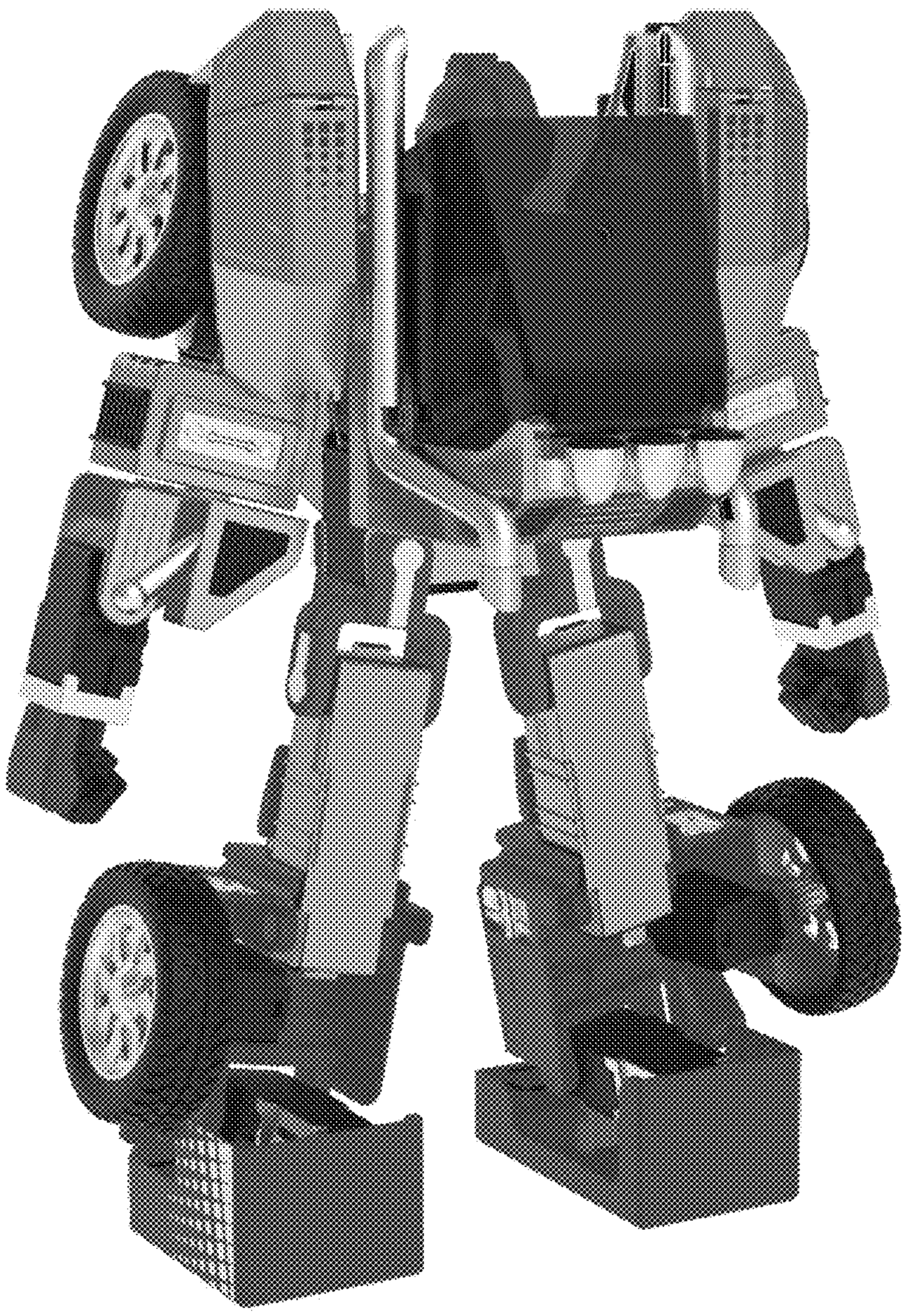

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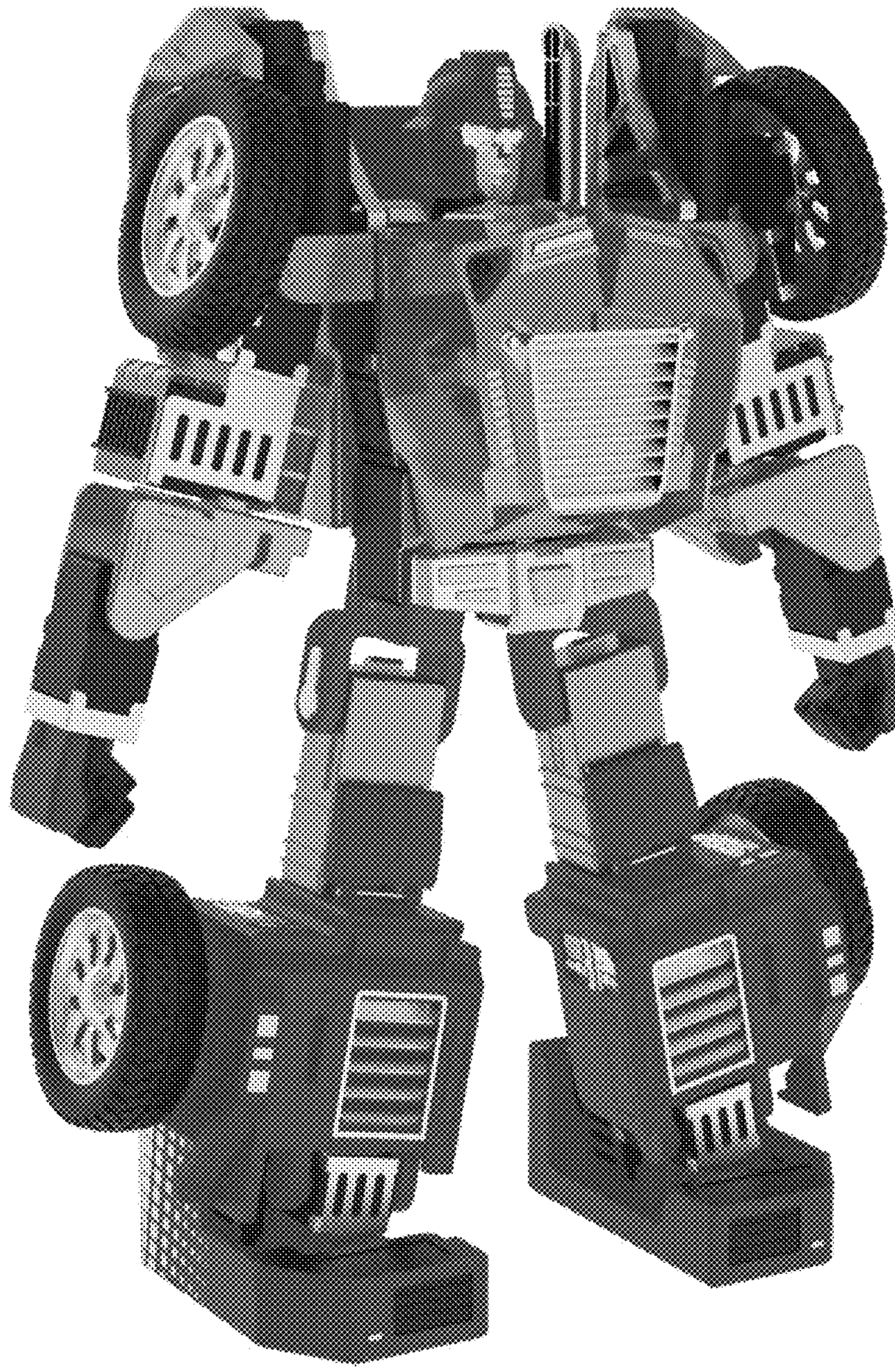

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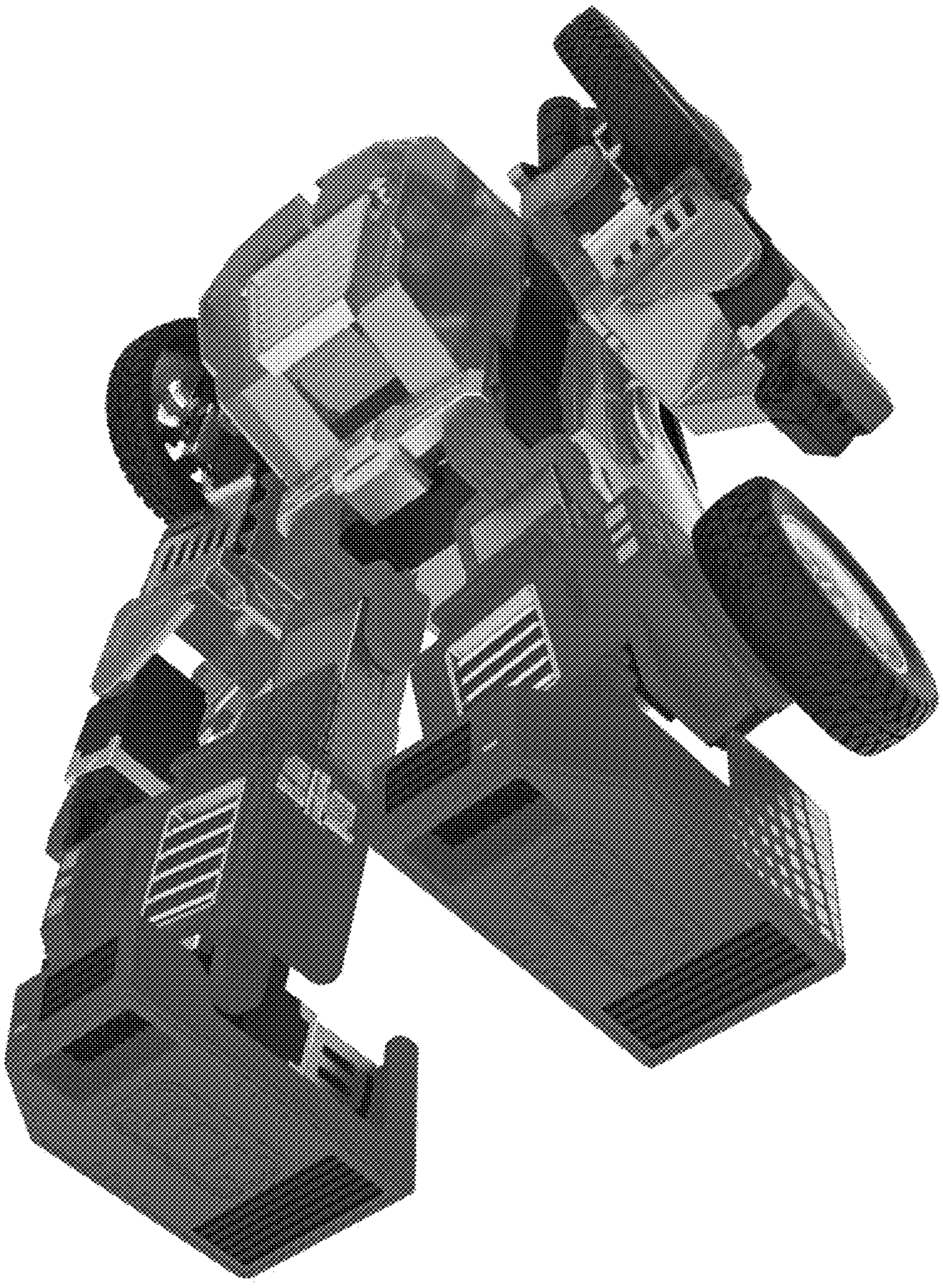

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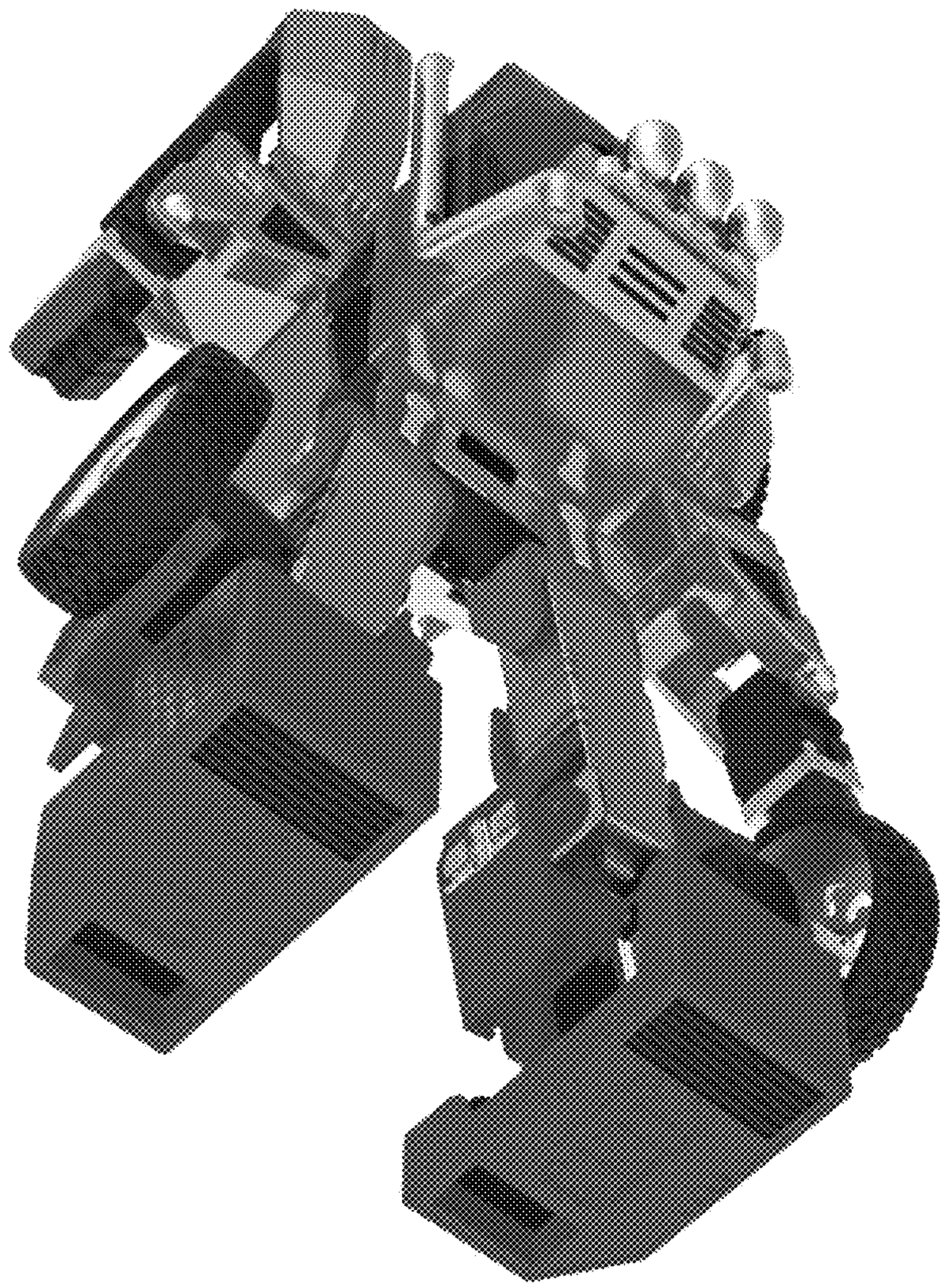

Fig. 20