



US0D1040021S

(12)

United States Design Patent

Zhao et al.

(10) Patent No.: US D1,040,021 S

(45) Date of Patent: ** Aug. 27, 2024

(54) MULTI-ROTOR UNMANNED AERIAL VEHICLE

(71) Applicant: Beijing Sankuai Online Technology Co., Ltd., Beijing (CN)

(72) Inventors: Ziran Zhao, Beijing (CN); Bohan Yao, Beijing (CN); Baojun Liu, Beijing (CN); Kunpeng Jing, Beijing (CN); Jianping Wei, Beijing (CN); Lijun Xu, Beijing (CN); Meng Hu, Beijing (CN); Yinian Mao, Beijing (CN)

(73) Assignee: Beijing Sankuai Online Technology Co., Ltd., Beijing (CN)

(**) Term: 15 Years

(21) Appl. No.: 35/518,882

(22) Filed: Jul. 5, 2023

(80) Hague Agreement Data

Int. Filing Date: Jul. 5, 2023

Int. Reg. No.: DM/232577

Int. Reg. Date: Jul. 5, 2023

Int. Reg. Pub. Date: Nov. 3, 2023

(30) Foreign Application Priority Data

May 17, 2023 (CN) 202330291493.9

(51) LOC (14) Cl. 12-06

(52) U.S. Cl.

USPC D12/16.1

(58) Field of Classification Search

USPC D12/16.1, 1–4, 174, 319–345; D21/301, D21/436, 441, 442, 443, 444, 446, 447, D21/448, 449, 450, 451, 452, 453

CPC B64C 29/0033; B64C 29/00; B64C 27/22; B64C 27/00

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D803,097 S * 11/2017 Wang D12/16.1

D808,860 S * 1/2018 Tian D12/16.1

D875,602 S * 2/2020 Xu D21/328

D885,301 S * 5/2020 Luo D12/328

(Continued)

OTHER PUBLICATIONS

“30 liters uav drone crop sprayer with gps for agriculture spraying fumigate” amazon.com, post Published Aug. 1, 2022. Retrieved Jun. 11, 2024. Available online at URL:https://www.amazon.com/liters-sprayer-agriculture-spraying-fumigate/dp/B0B87GFV1F (Year: 2022).*

(Continued)

Primary Examiner — Christian P. McLean

Assistant Examiner — Jessica Lynn Devilbiss

(74) Attorney, Agent, or Firm — Kilpatrick Townsend & Stockton LLP

(57) CLAIM

The ornamental design for a multi-rotor unmanned aerial vehicle, as shown and described.

DESCRIPTION

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

1. Multi-rotor unmanned aerial vehicle

1.1 : Perspective

1.2 : Front

1.3 : Back

1.4 : Left

1.5 : Right

1.6 : Top

1.7 : Bottom

1 Claim, 7 Drawing Sheets

(7 of 7 Drawing Sheet(s) Filed in Color)



(56) References Cited

U.S. PATENT DOCUMENTS

D953,201 S * 5/2022 Costier B64C 27/50
D12/16.1
D980,120 S * 3/2023 Wang D21/443
D1,001,681 S * 10/2023 Du D12/16.1
D1,014,329 S * 2/2024 Jeong D12/16.1
D1,015,207 S * 2/2024 Deng D12/16.1
D1,017,478 S * 3/2024 Shashurin D12/16.1
2016/0376014 A1 * 12/2016 Alnafisah B64U 10/16
244/39
2021/0323668 A1 * 10/2021 Seung H01M 8/04089

OTHER PUBLICATIONS

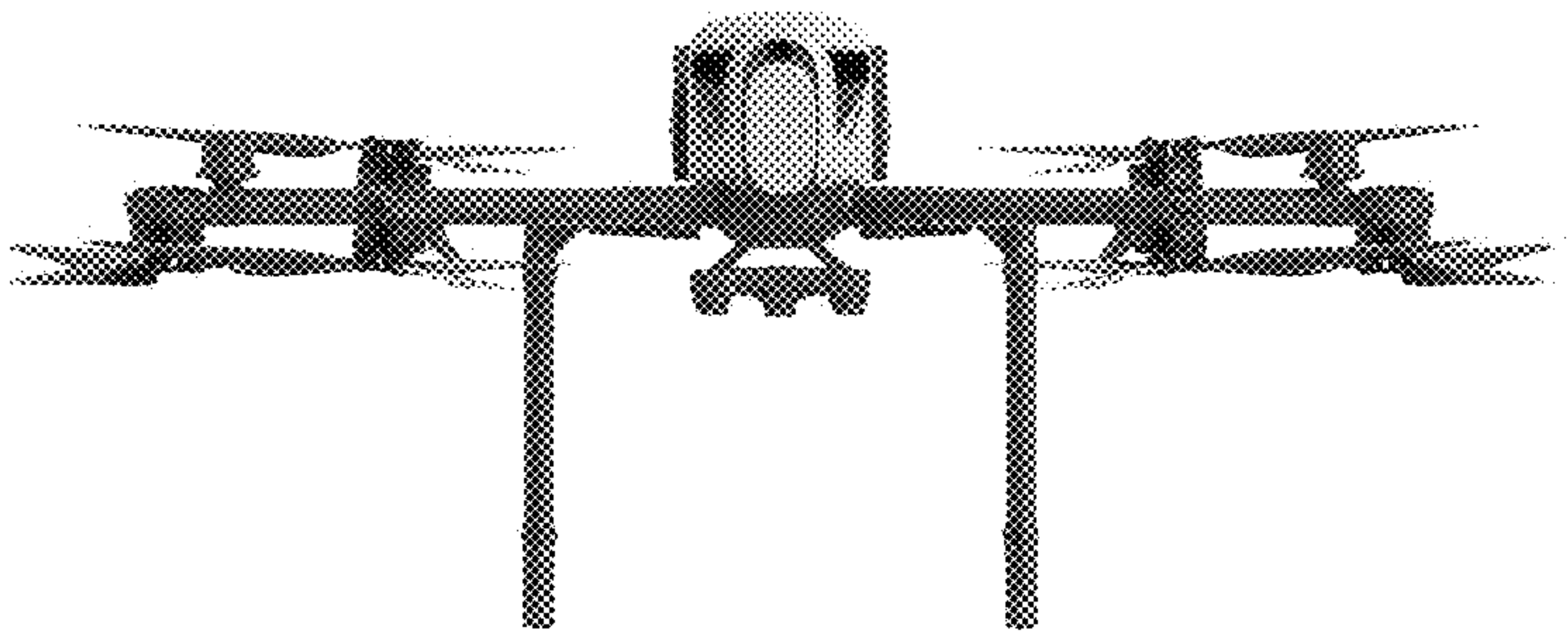
“H620L Hybrid crop spot spraying drone for agriculture” amazon.
com, post Published: Unavailable. Retrieved Jun. 11, 2024. Avail-
able online at URL:[https://www.droneassemble.com/product/h620l-](https://www.droneassemble.com/product/h620l-hybrid-crop-spot-spraying-drone-for-agriculture/)
hybrid-crop-spot-spraying-drone-for-agriculture/ (Year: 2024).*

* cited by examiner

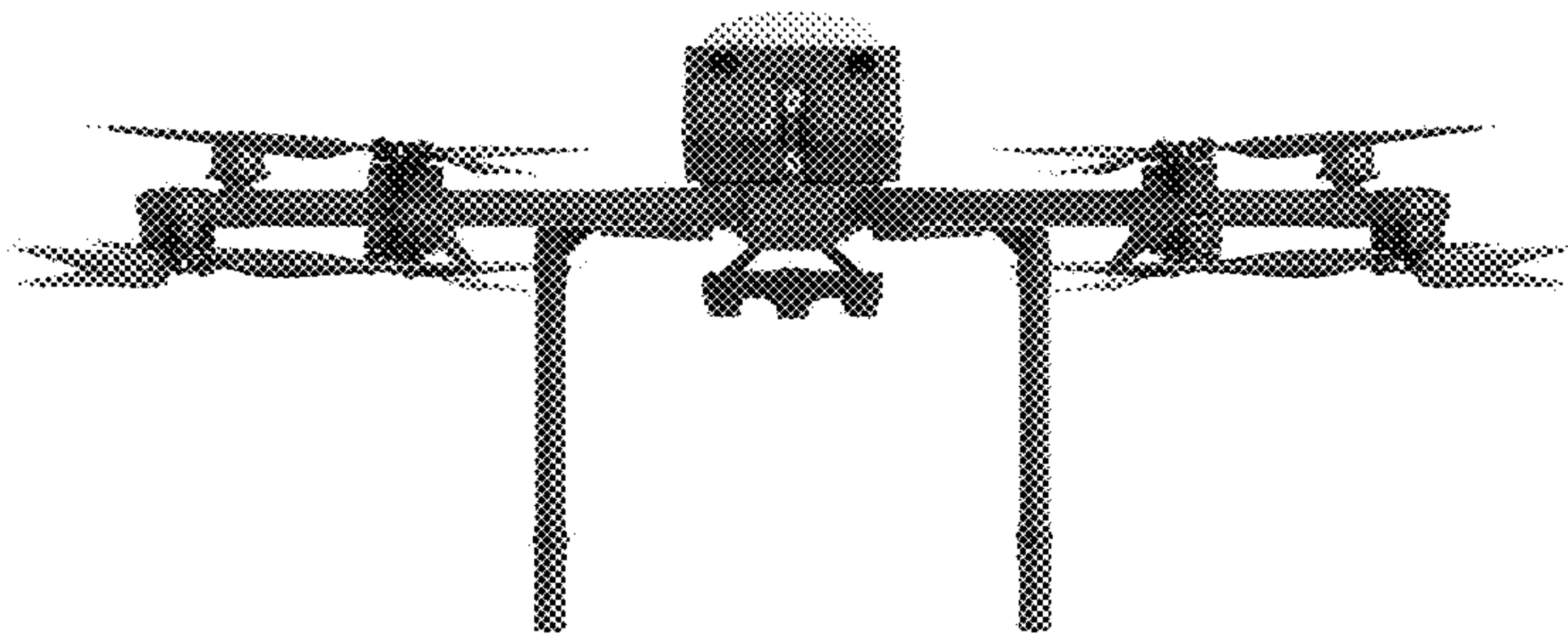
1.1



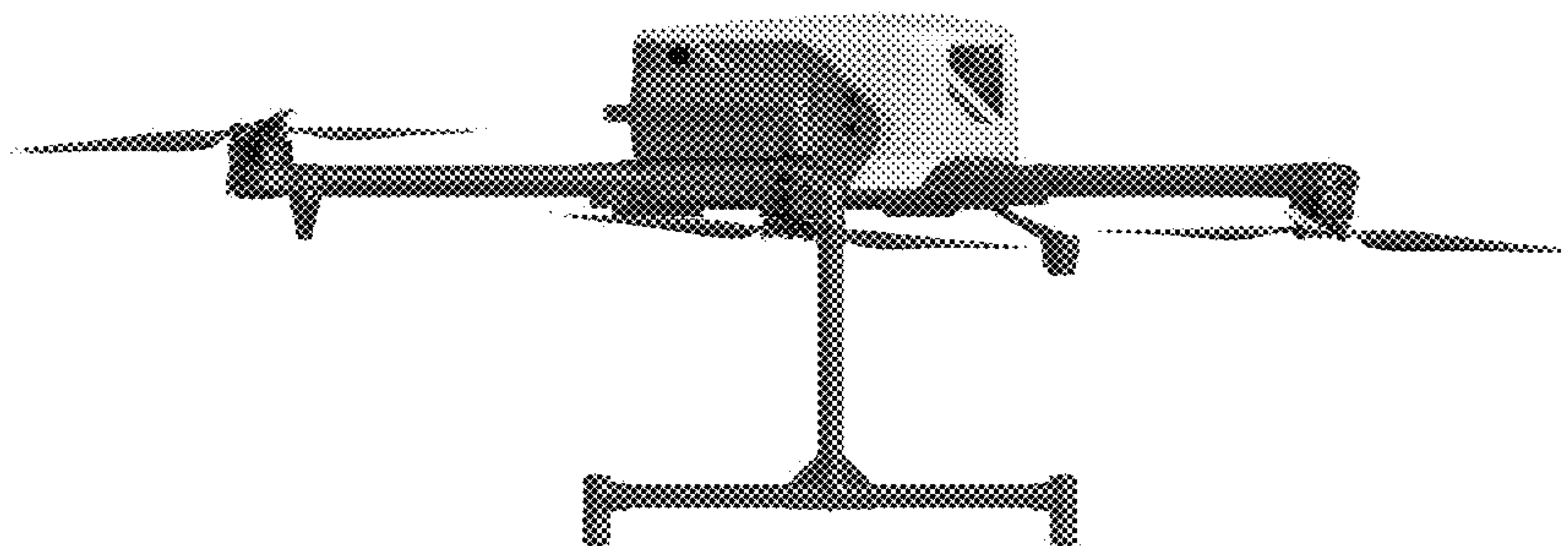
1.2



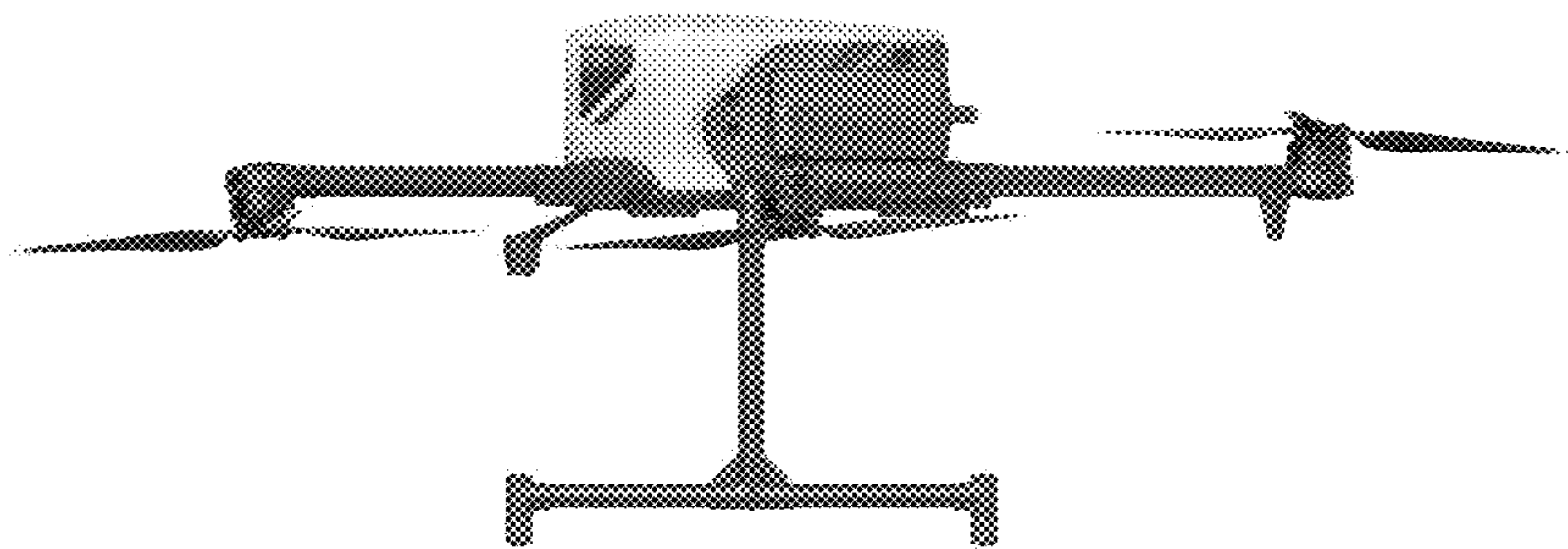
1.3



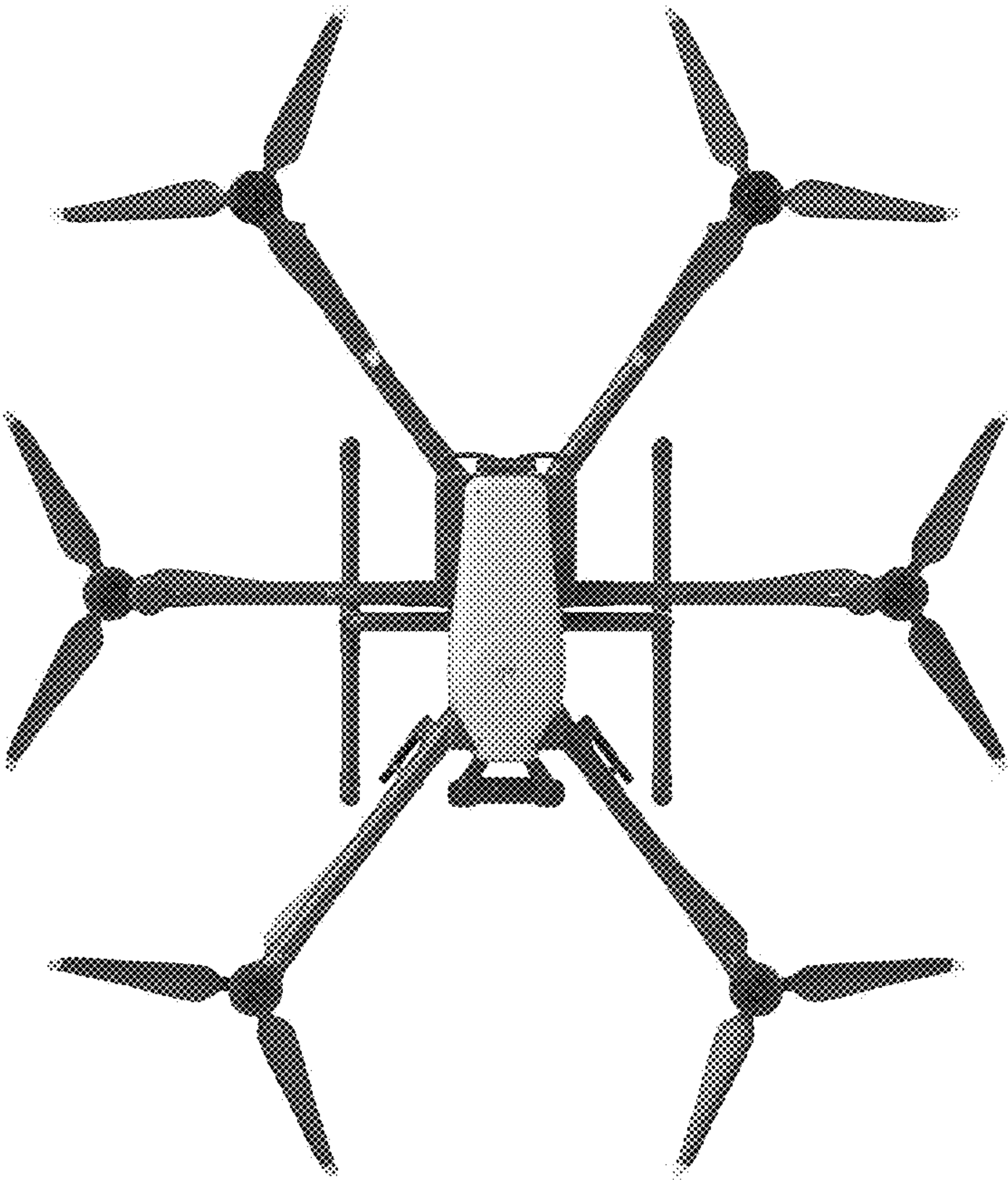
1.4



1.5



1.6



1.7

