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(12) **United States Design Patent**  
**Kalnin**

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(54) **BIDIRECTIONAL NASAL CANNULA**  
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(72) Inventor: **Laurence Kalnin**, London (GB)  
(\*\*) Term: **15 Years**

D881,382 S \* 4/2020 Chang ..... D24/110.5  
D893,015 S \* 8/2020 Wilson ..... D24/110.4  
D893,016 S \* 8/2020 Wilson ..... D24/110.4  
D897,523 S \* 9/2020 Babbage ..... D24/110  
D911,515 S \* 2/2021 Koschany ..... D24/110.5  
D917,042 S \* 4/2021 Scampoli ..... D24/112  
D933,206 S \* 10/2021 Lucio ..... D24/110.4

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(52) **U.S. Cl.**  
USPC ..... **D24/110.4**

(58) **Field of Classification Search**  
USPC .... D24/110.1, 110.2, 110.4, 110.5, 112, 110  
CPC ..... A61M 16/0833; A61M 16/0683; A61M  
16/0816; A61M 16/0622  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D228,692 S \* 10/1973 King ..... D24/112  
4,446,869 A \* 5/1984 Knodle ..... A61B 5/097  
128/205.12  
5,375,593 A \* 12/1994 Press ..... A61M 16/0666  
128/207.18  
7,178,525 B2 \* 2/2007 Matula, Jr. .... A61M 16/0616  
128/207.11  
D637,285 S \* 5/2011 Bradley ..... D24/110.5  
D665,496 S \* 8/2012 Lee ..... D24/110.5  
D744,637 S \* 12/2015 Scampoli ..... D24/110.5  
D745,141 S \* 12/2015 Hung ..... A61M 16/0816  
D24/110.5  
D752,735 S \* 3/2016 Scampoli ..... D24/110.5  
D849,243 S \* 5/2019 Wilson ..... D24/110.4  
D859,646 S \* 9/2019 Scampoli ..... D24/110

**OTHER PUBLICATIONS**

“Nasal . . . ” reference found Sep. 27, 2022 found on the internet at:  
[https://cpapx.com/products/nasal-prong-pillow-nasalaire-ii-cpap-bipap-masks?utm\\_campaign=gs-2022-06-29&utm\\_source=google&utm\\_medium=smart\\_campaign&gclid=EAIaIQobChMIs46toaK2-gIVhq\\_ICh0XGgKjEAQYBSABEgJ5ZfD\\_BwE.\\*](https://cpapx.com/products/nasal-prong-pillow-nasalaire-ii-cpap-bipap-masks?utm_campaign=gs-2022-06-29&utm_source=google&utm_medium=smart_campaign&gclid=EAIaIQobChMIs46toaK2-gIVhq_ICh0XGgKjEAQYBSABEgJ5ZfD_BwE.*)  
“Direct Home . . . ” reference found Sep. 27, 2022 at: [https://www.directhomemedical.com/cart/merchant.mvc?Screen=PROD&Product\\_Code=home-oxygen-nasal-cannula-starter-variety-pack&Store\\_Code=DHM&gclid=EAIaIQobChMIs46toaK2-gIVhq\\_ICh0XGgKjEAQYByABEgIRTPD\\_BwE.\\*](https://www.directhomemedical.com/cart/merchant.mvc?Screen=PROD&Product_Code=home-oxygen-nasal-cannula-starter-variety-pack&Store_Code=DHM&gclid=EAIaIQobChMIs46toaK2-gIVhq_ICh0XGgKjEAQYByABEgIRTPD_BwE.*)  
“West Med . . . ” reference found Sep. 27, 2022 at: [https://www.directhomemedical.com/cart/merchant.mvc?Screen=PROD&Product\\_Code=westmed-comfort-soft-plus-cannulas-4-foot&Store\\_Code=DHM&gclid=EAIaIQobChMI962Y-Ji2-gIVXRmtBh10zQVkeAQYCSABEg17hPD\\_BwE.\\*](https://www.directhomemedical.com/cart/merchant.mvc?Screen=PROD&Product_Code=westmed-comfort-soft-plus-cannulas-4-foot&Store_Code=DHM&gclid=EAIaIQobChMI962Y-Ji2-gIVXRmtBh10zQVkeAQYCSABEg17hPD_BwE.*)

\* cited by examiner

*Primary Examiner* — Rhea Shields

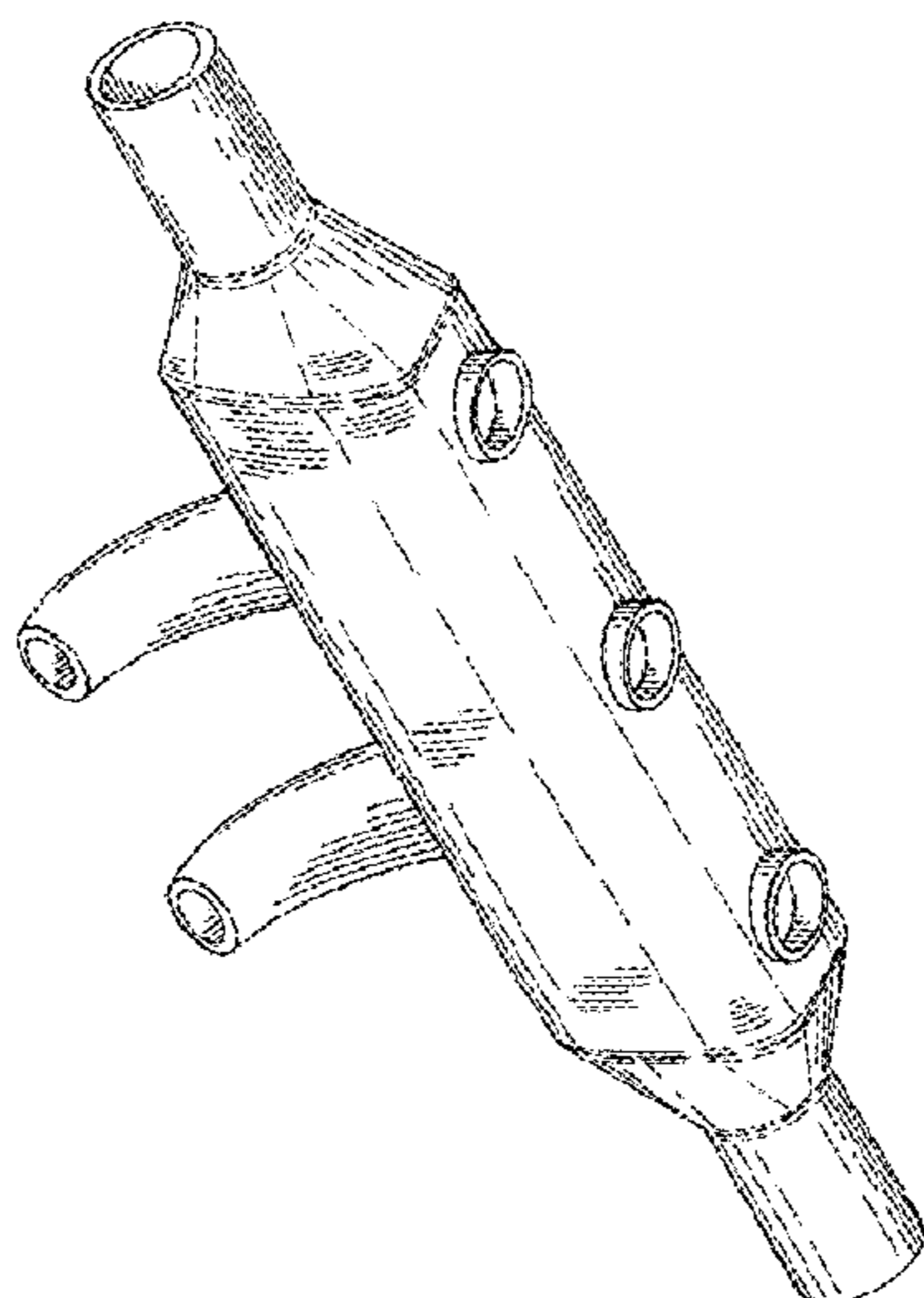
(57) **CLAIM**

The ornamental design for a bidirectional nasal cannula, as shown and described.

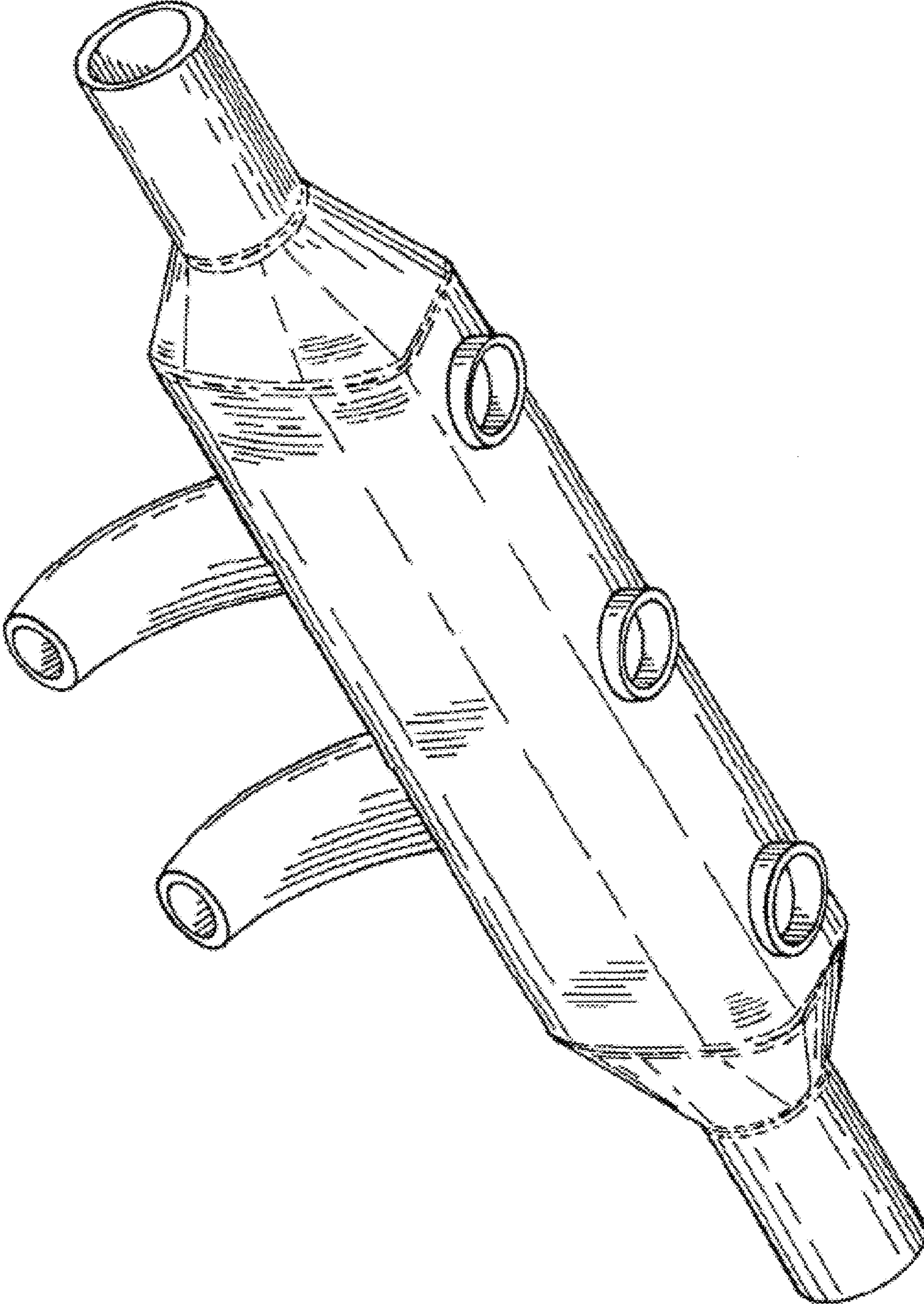
**DESCRIPTION**

- 1. Bidirectional nasal cannula
- 1.1 : Perspective
- 1.2 : Right
- 1.3 : Front
- 1.4 : Left
- 1.5 : Inverted plan view
- 1.6 : Back
- 1.7 : Plan view

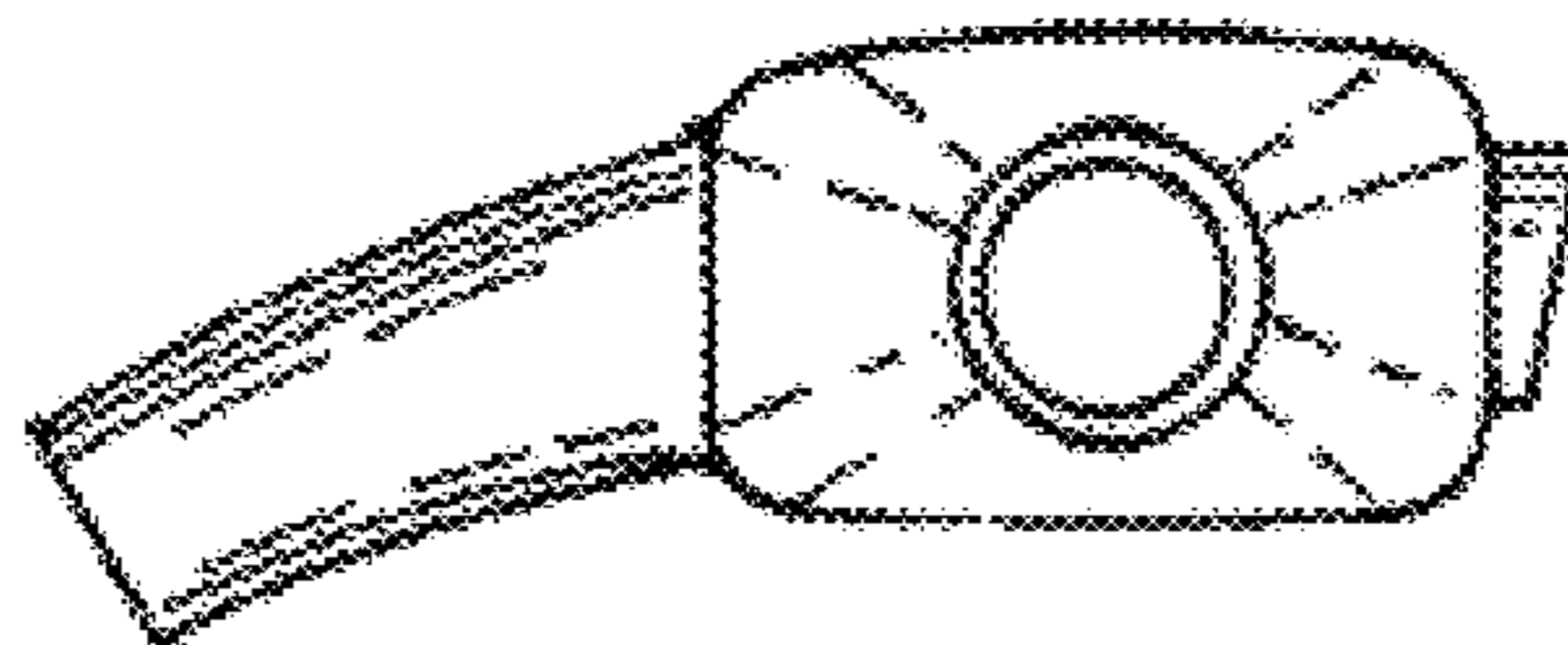
**1 Claim, 7 Drawing Sheets**



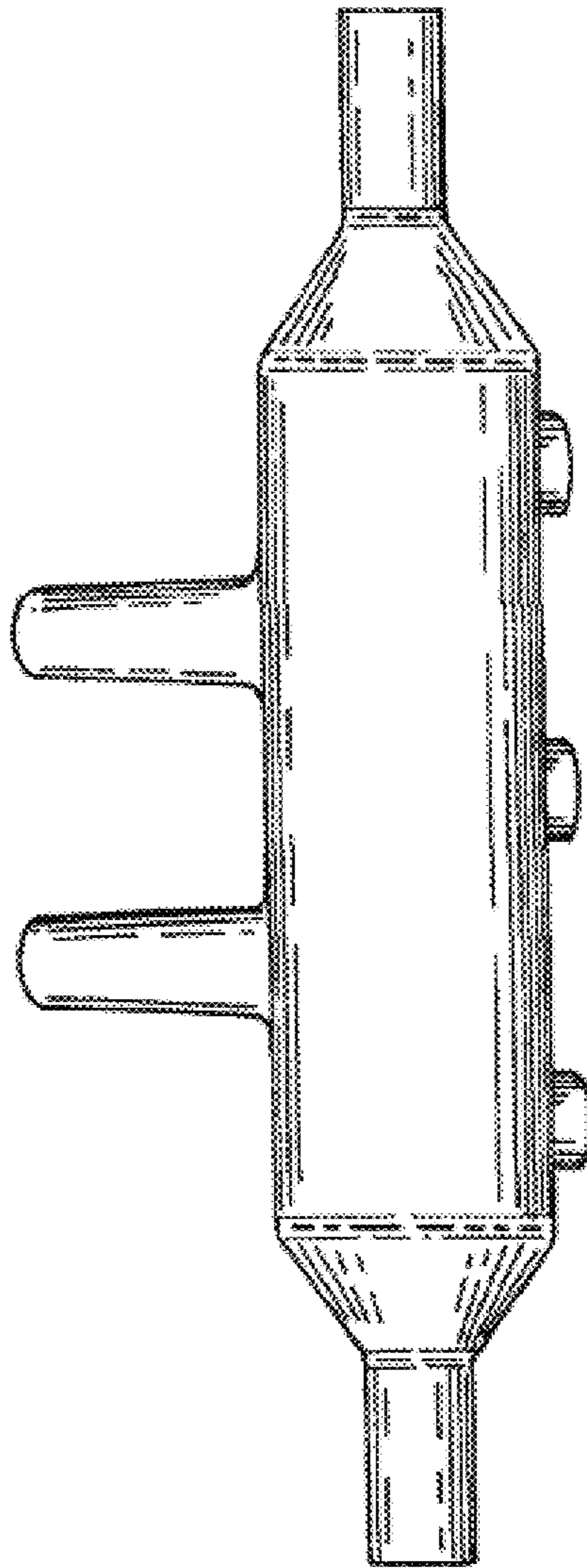
1.1



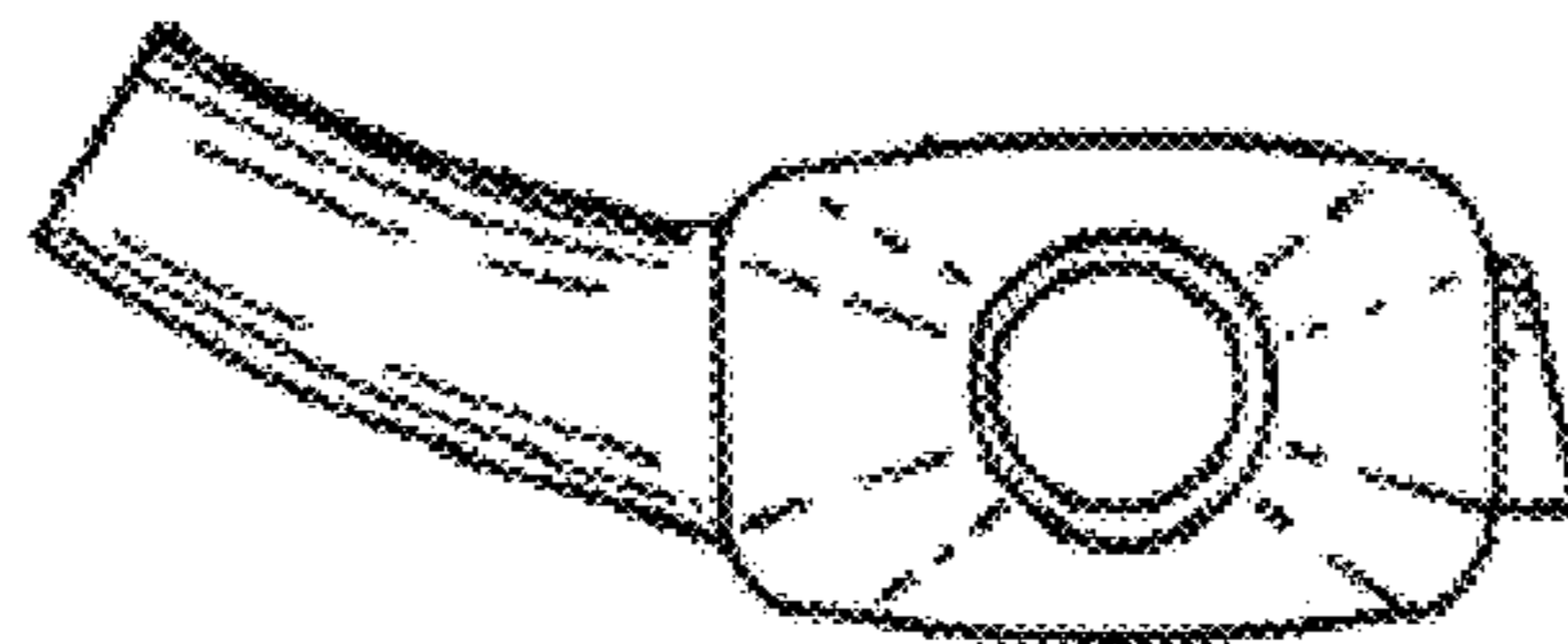
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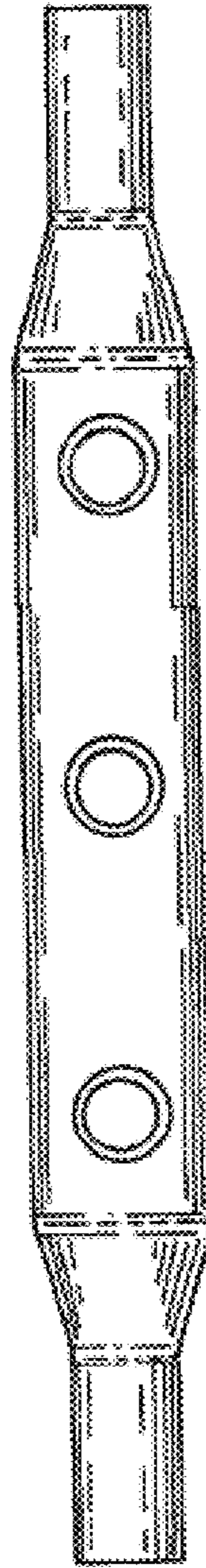
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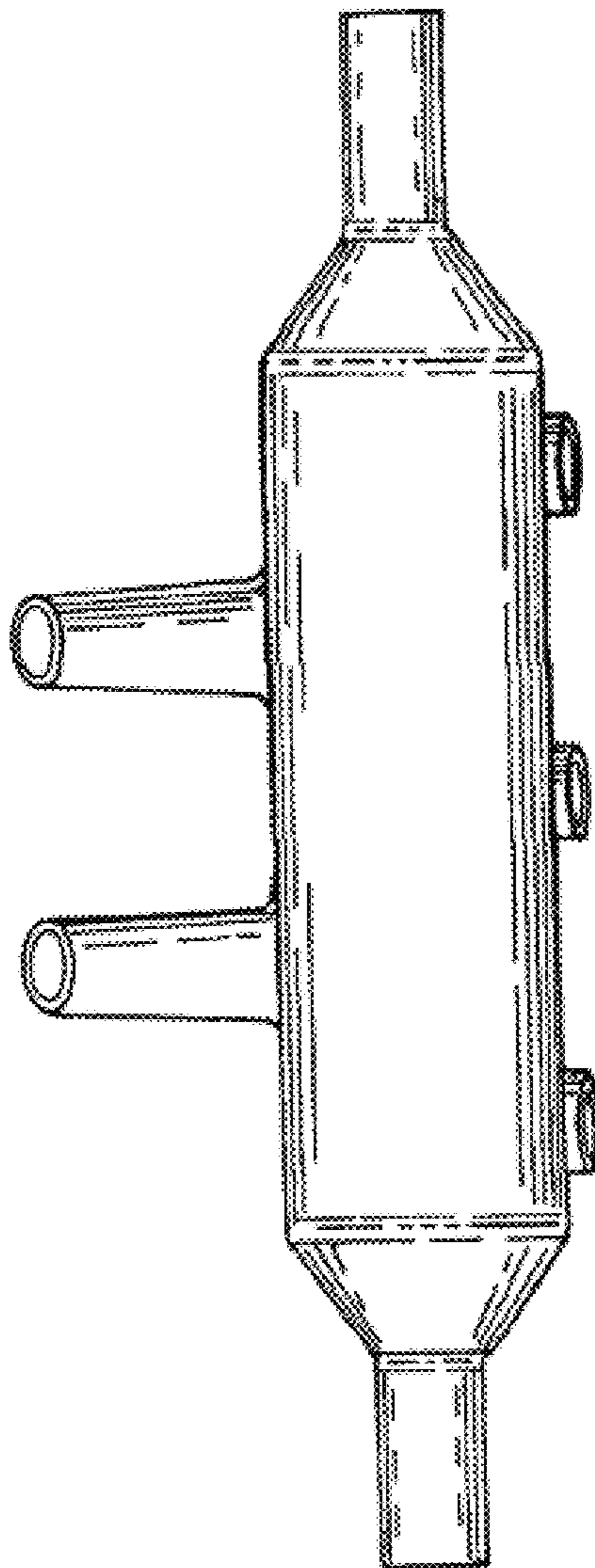
1.4



1.5



# 1.6



1.7

