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Deng et al.

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(54) **ROBOTIC ARM**

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

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(52) **U.S. Cl.**
USPC **D15/199**

(58) **Field of Classification Search**
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23/259, 262, 263
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2219/33105; G05B 2219/36433; G05B
2219/39335; G05B 2219/39427; G05B
2219/40304; G06C 7/60; G06N 3/00;
G06N 3/004; G06N 3/006; G06N 3/008;
G06N 5/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D461,484 S * 8/2002 Kraft D15/199
D646,703 S * 10/2011 Wong D15/199
D650,820 S * 12/2011 Long D15/199

D655,324 S * 3/2012 Wong D15/199
D670,319 S * 11/2012 Liu D15/199
D677,294 S * 3/2013 Long D15/199
D692,041 S * 10/2013 Selic D15/199
D716,357 S * 10/2014 Gombert D15/199
D761,339 S * 7/2016 White, Jr. D15/199
D766,348 S * 9/2016 Long D15/199
D776,178 S * 1/2017 Ries D15/199
D802,041 S * 11/2017 He D15/199
D824,977 S * 8/2018 Everman D15/199
D830,439 S * 10/2018 Park D15/199
2010/0131099 A1* 5/2010 Birkenbach G05B 19/402
700/254
2011/0064554 A1* 3/2011 Ito B25J 9/047
414/735
2011/0107866 A1* 5/2011 Oka B25J 9/0084
74/490.03
2013/0116821 A1* 5/2013 Joly B25J 9/161
700/254
2013/0125694 A1* 5/2013 Long B25J 11/0075
74/490.01

(Continued)

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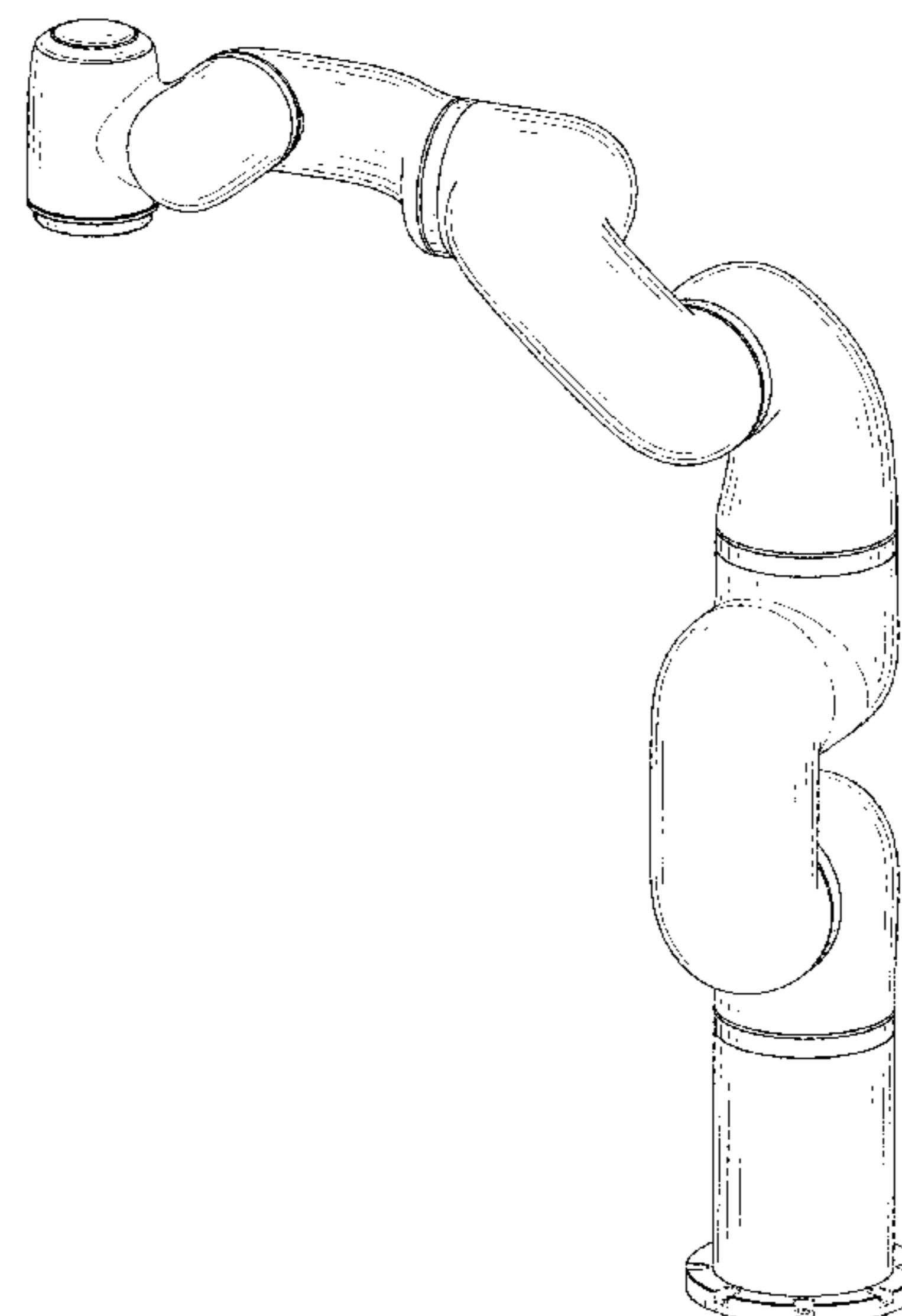
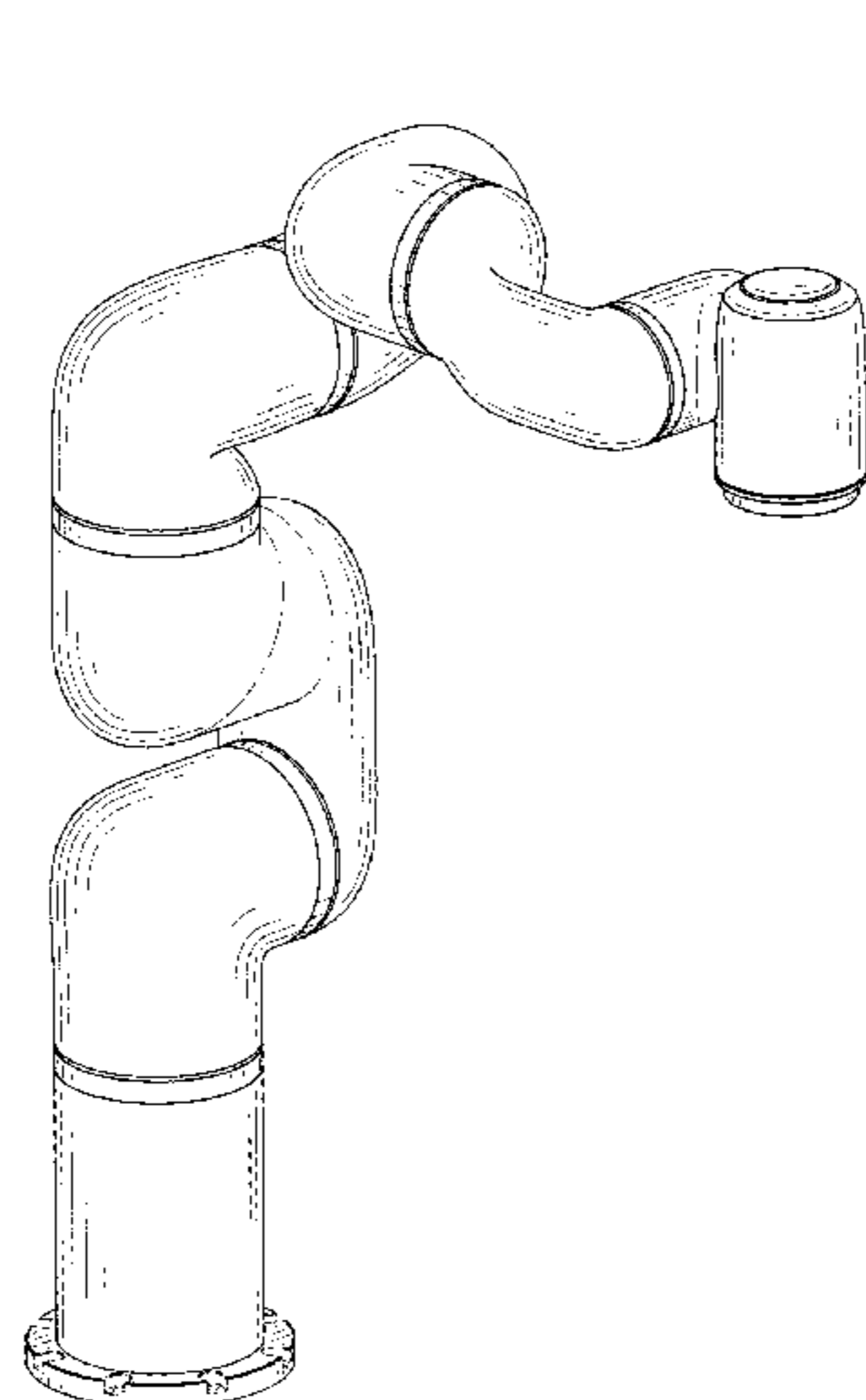
(57) **CLAIM**

The ornamental design for a robotic arm, as shown and described.

DESCRIPTION

FIG. 1 is a top, front and left side perspective view of a robotic arm showing our new design; FIG. 2 is a top, rear and right side perspective view thereof; FIG. 3 is a front elevational view thereof; FIG. 4 is a rear elevational view thereof; FIG. 5 is a left side view thereof; FIG. 6 is a right side view thereof; FIG. 7 is a top plan view thereof; and, FIG. 8 is a bottom plan view thereof. The broken lines in the drawings depict unclaimed environmental subject matter of the robotic arm.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0102239 A1* 4/2014 Umeno B25J 15/0033
74/490.01
2014/0137687 A1* 5/2014 Nogami B25J 18/00
74/490.03
2016/0331482 A1* 11/2016 Hares B25J 9/1689

* cited by examiner

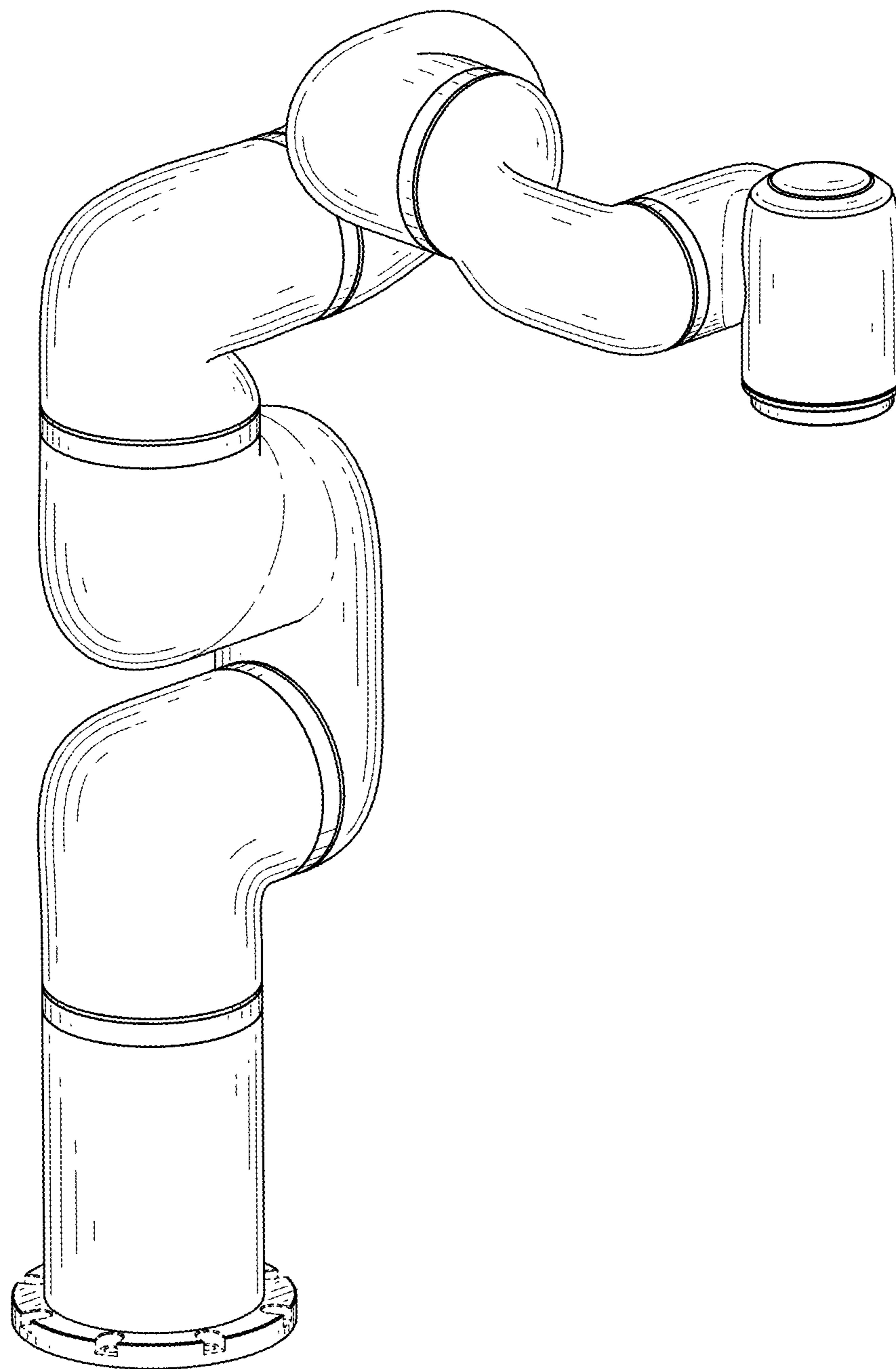


FIG. 1

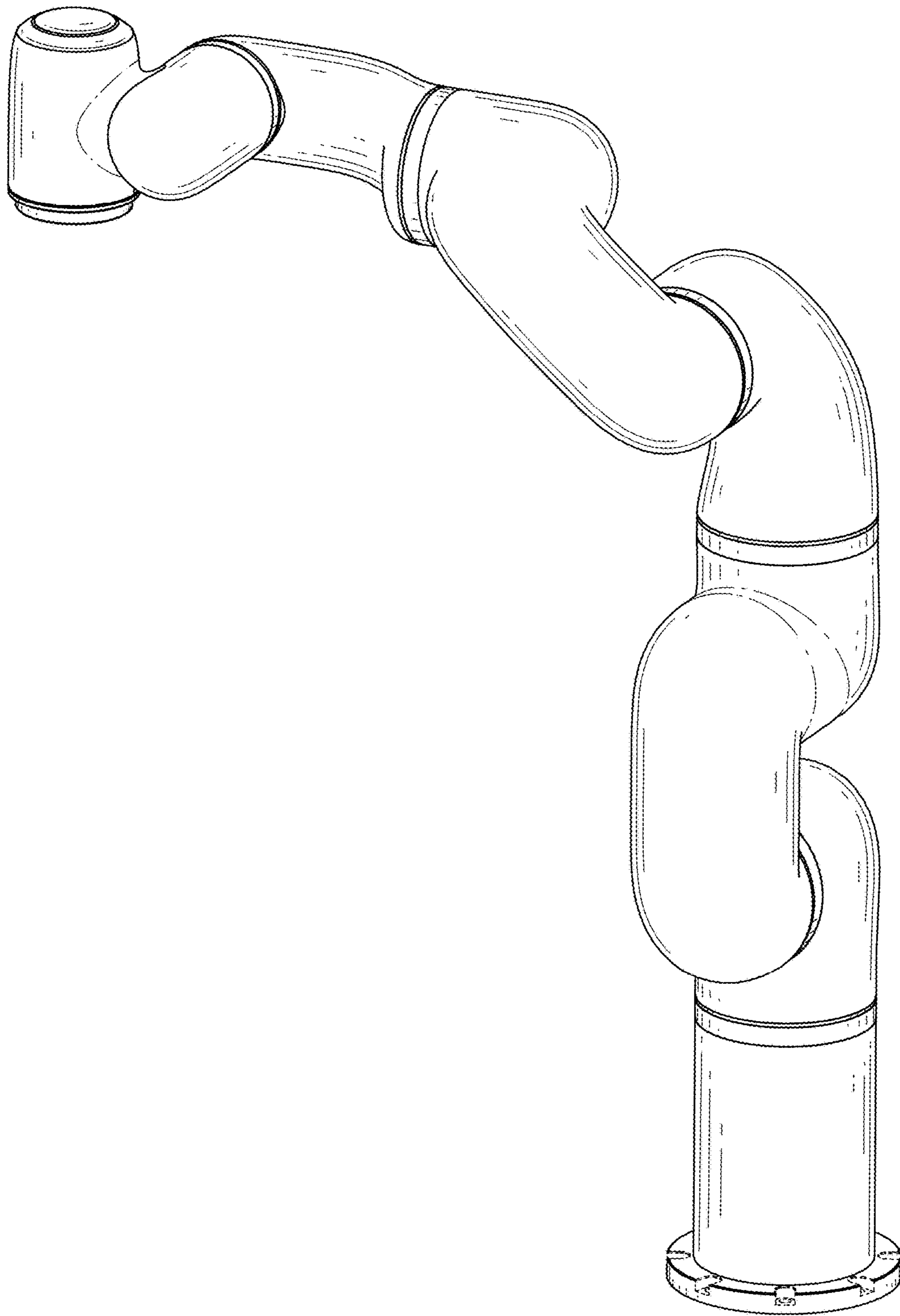


FIG. 2

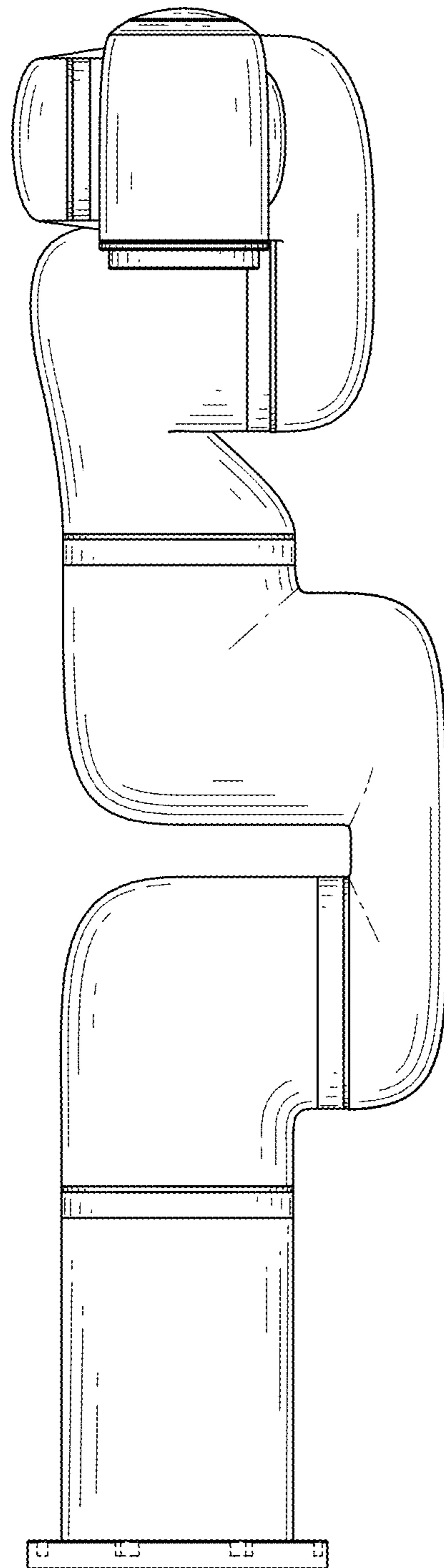


FIG. 3

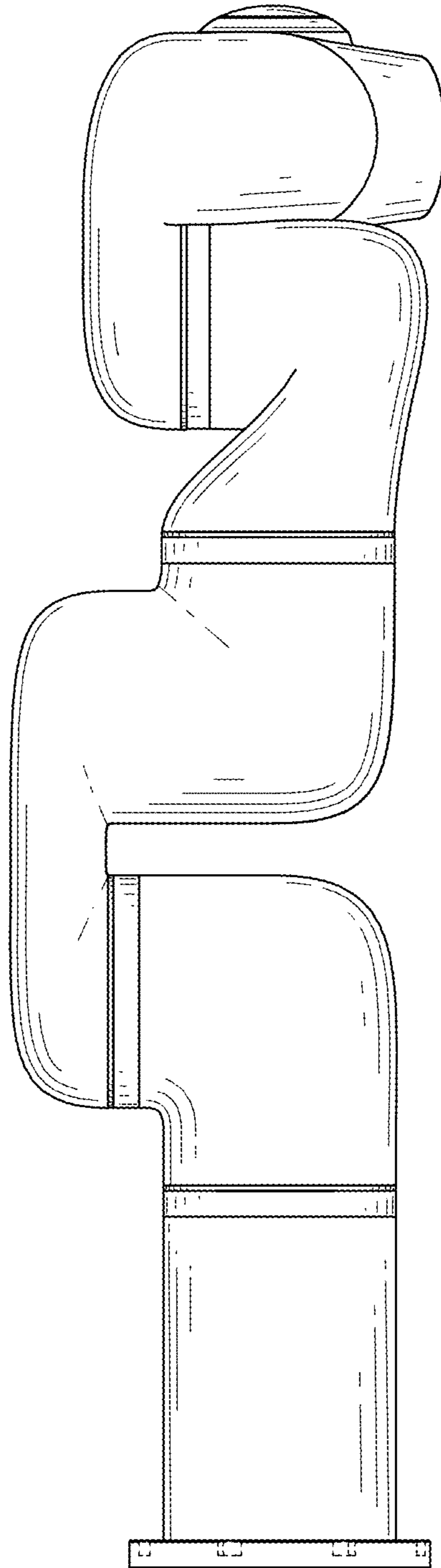


FIG. 4

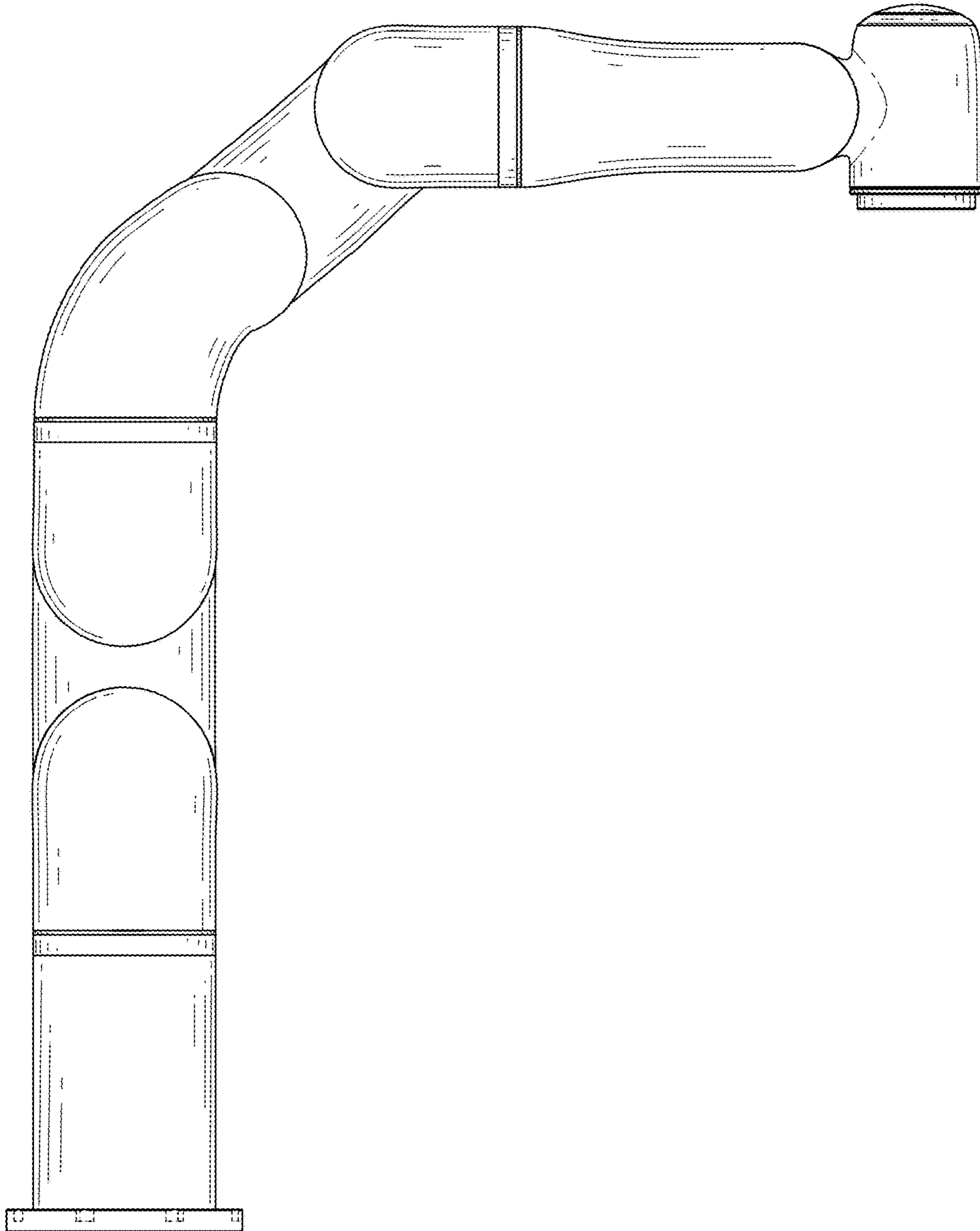


FIG. 5

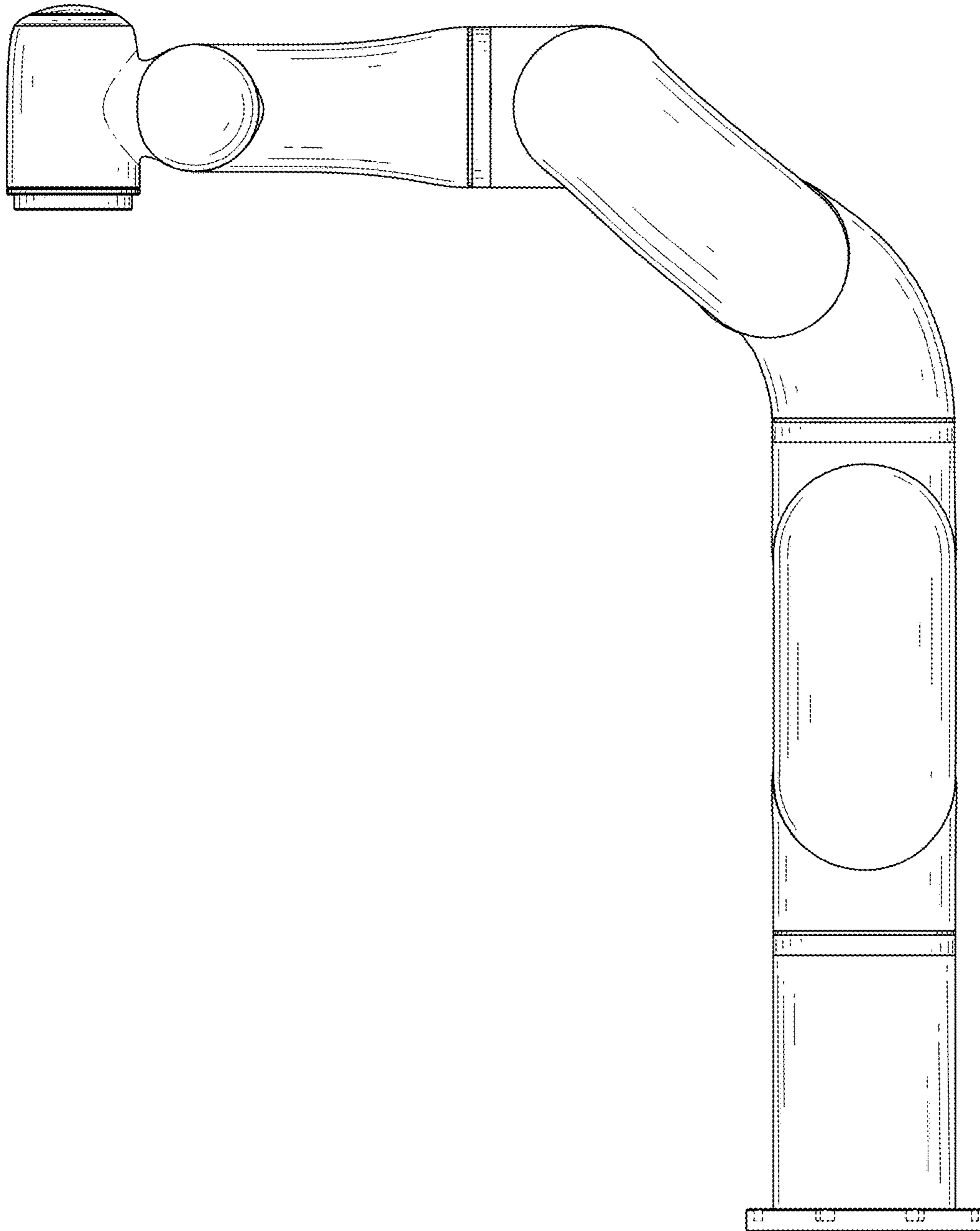


FIG. 6

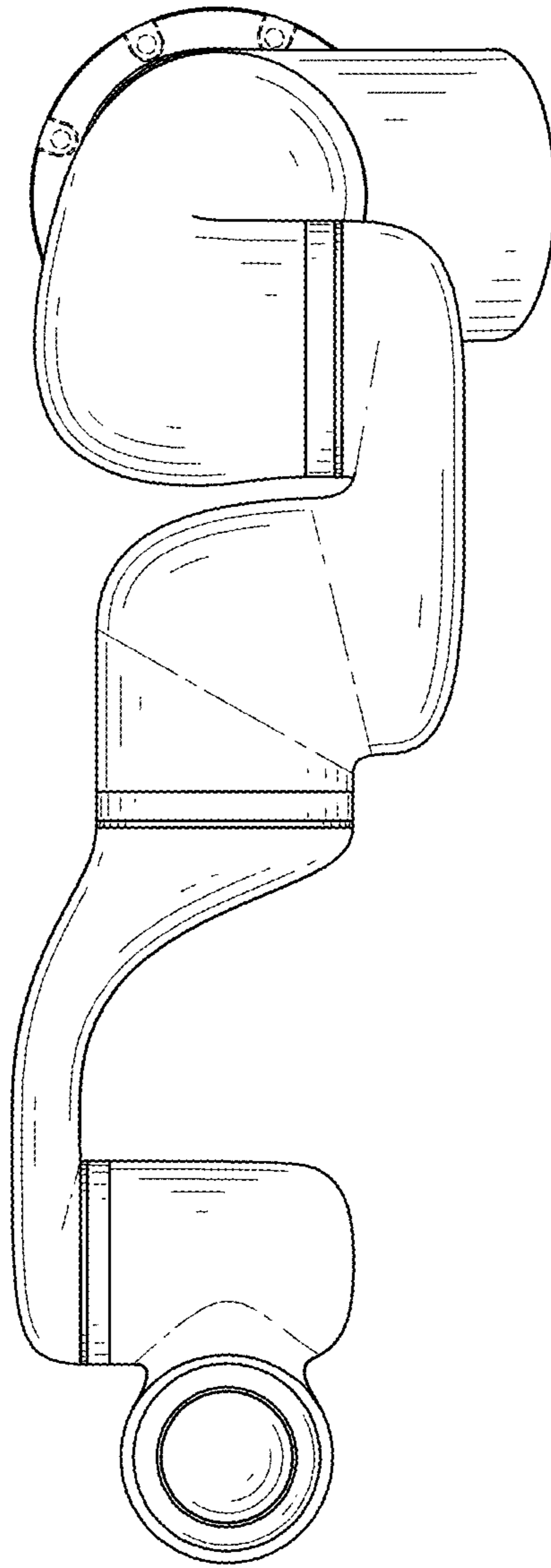


FIG. 7

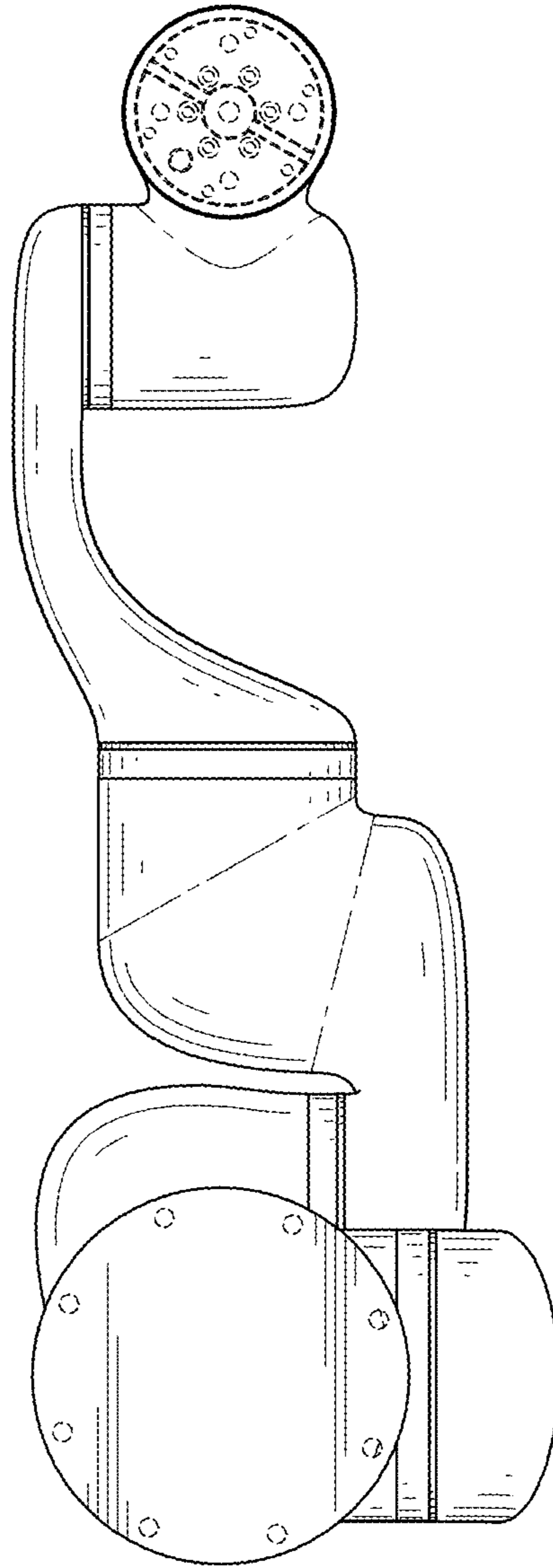


FIG. 8