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United States Patent [19]

Aizawa

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[45] Date of Patent: ** Feb. 23, 1993

[54] **AIR CYLINDER**

[75] Inventor: **Akira Aizawa,** Soka, Japan

[73] Assignee: **SMC Corporation,** Tokyo, Japan

[**] Term: **14 Years**

[21] Appl. No.: **486,171**

[22] Filed: **Feb. 28, 1990**

[30] **Foreign Application Priority Data**

Aug. 30, 1989 [JP] Japan 1-31570
Aug. 30, 1989 [JP] Japan 1-31575

[52] **U.S. Cl.** **D15/7;** D15/5

[58] **Field of Search** D15/1, 2, 4, 5, 7–9; 417/403, 404; 91/275

[56] **References Cited**

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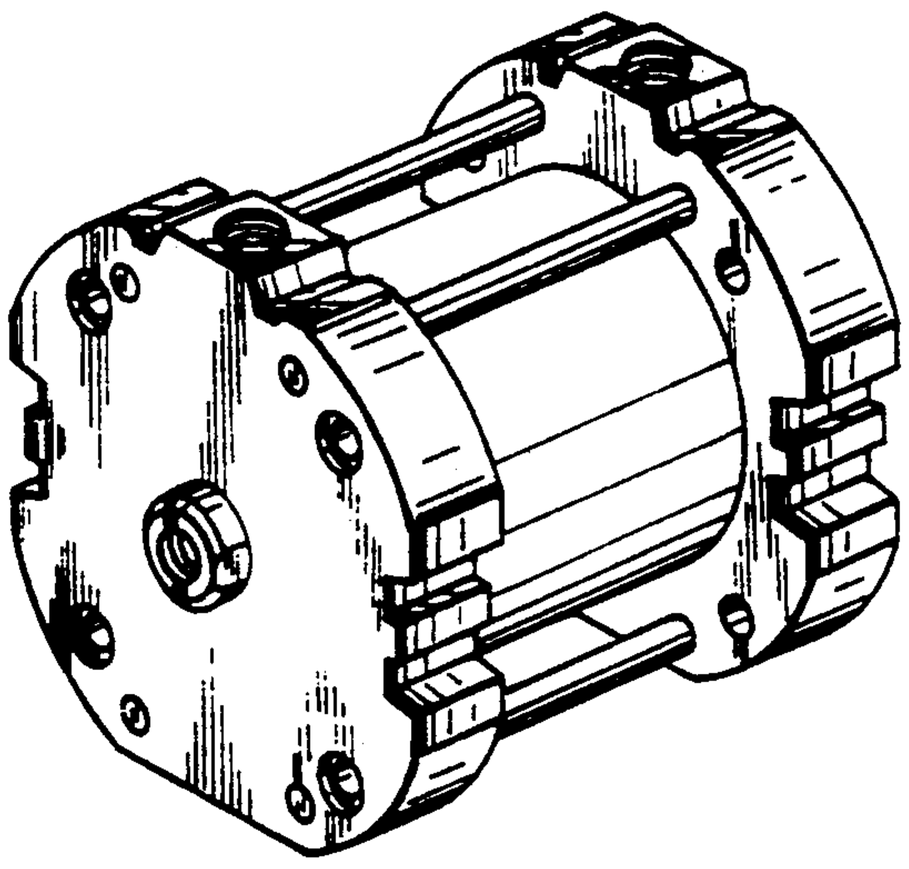
Assistant Examiner—R. Seifert
Attorney, Agent, or Firm—Oblon, Spivak, McClelland, Maier & Neustadt

[57] **CLAIM**

The ornamental design for an air cylinder, as shown and described.

DESCRIPTION

FIG. **1** is a front elevational view of an air cylinder showing my new design;
FIG. **2** is a top plan view;
FIG. **3** is a bottom plan view;
FIG. **4** is a right side elevational view;
FIG. **5** is a rear elevational view;
FIG. **6** is a cross sectional view taken along line 6—6 of FIG. **1**;
FIG. **7** is a cross sectional view taken along the lines of 7—7 of FIG. **4**;
FIG. **8** is a top, front and right perspective view;
FIG. **9** is a right side elevational view of an air cylinder showing a second embodiment of my new design wherein the only difference from the embodiment shown in FIGS. **1** through **8** is the variation in length;
FIG. **10** is a right side elevational view of an air cylinder showing a third embodiment of my new design wherein the only difference from the embodiment shown in FIGS. **1** through **9** is the variation in length;
FIG. **11** is a front elevational view of an air cylinder showing a fourth embodiment of my new design;
FIG. **12** is a top plan view of FIG. **11**;
FIG. **13** is a right side elevational view of FIG. **11**;
FIG. **14** is a left side elevational view of FIG. **11**;
FIG. **15** is a bottom plan view of FIG. **11**;
FIG. **16** is a rear elevational view of FIG. **11**;
FIG. **17** is a cross sectional view taken along the lines **16—16** of FIG. **11**;
FIG. **18** is a sectional view taken along the lines **17—17** of FIG. **13**;
FIG. **19** is a top, front right side perspective view of FIG. **11**;
FIG. **20** is a right side elevational view of an air cylinder showing a fifth embodiment of my new design wherein the only difference from the embodiment shown in FIGS. **11** through **18** is the variation in length; and,
FIG. **21** is a right side elevational view of an air cylinder showing a sixth embodiment of my new design wherein the only difference from the embodiment shown in FIGS. **11** through **18** is the variation in length.



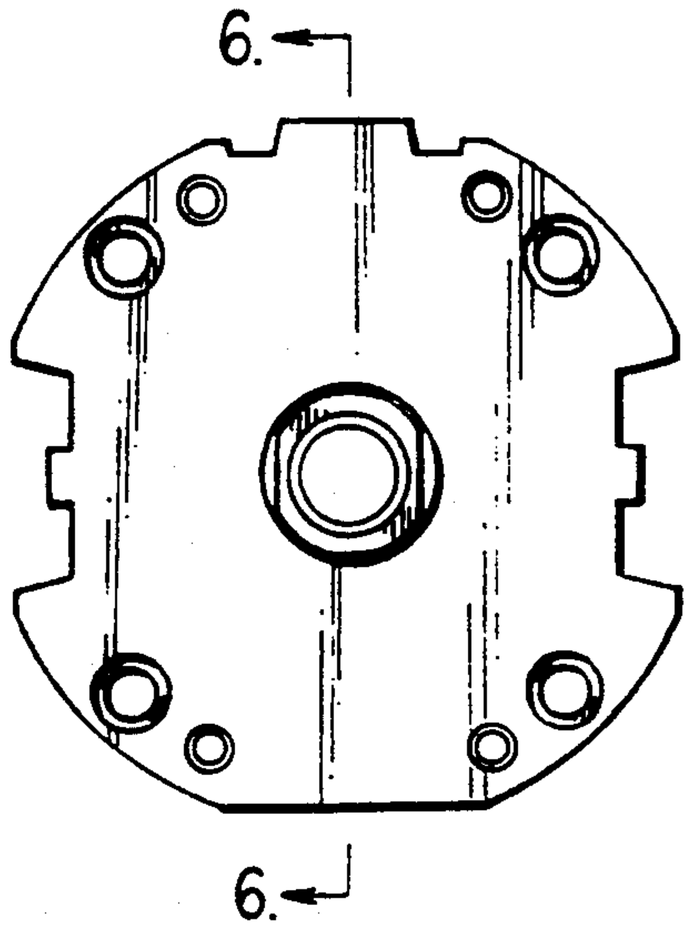


FIG. 1

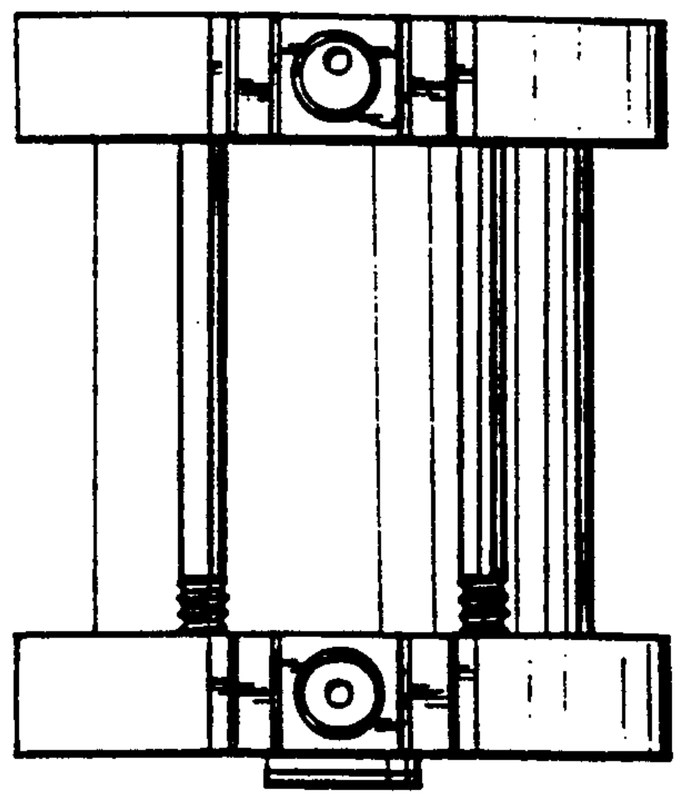


FIG. 2

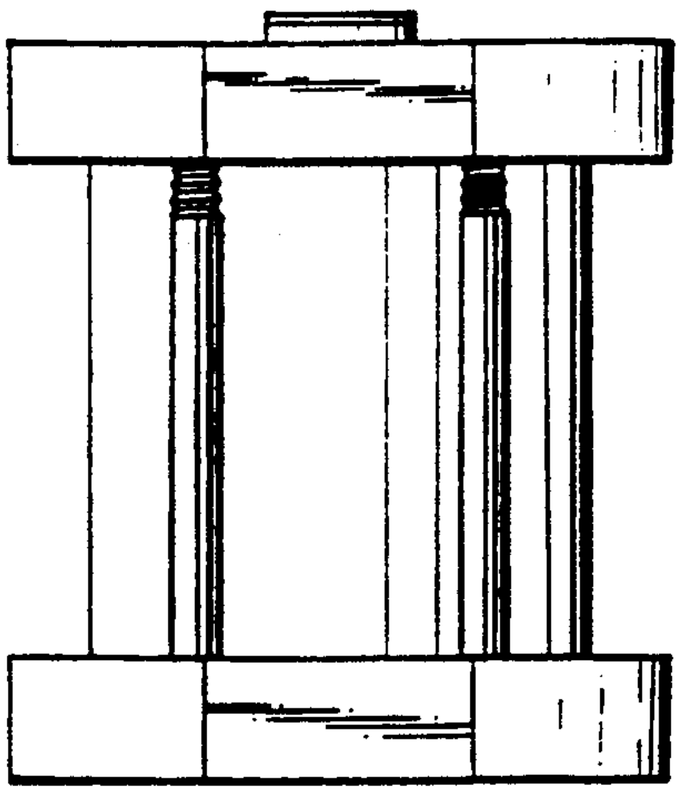


FIG. 3

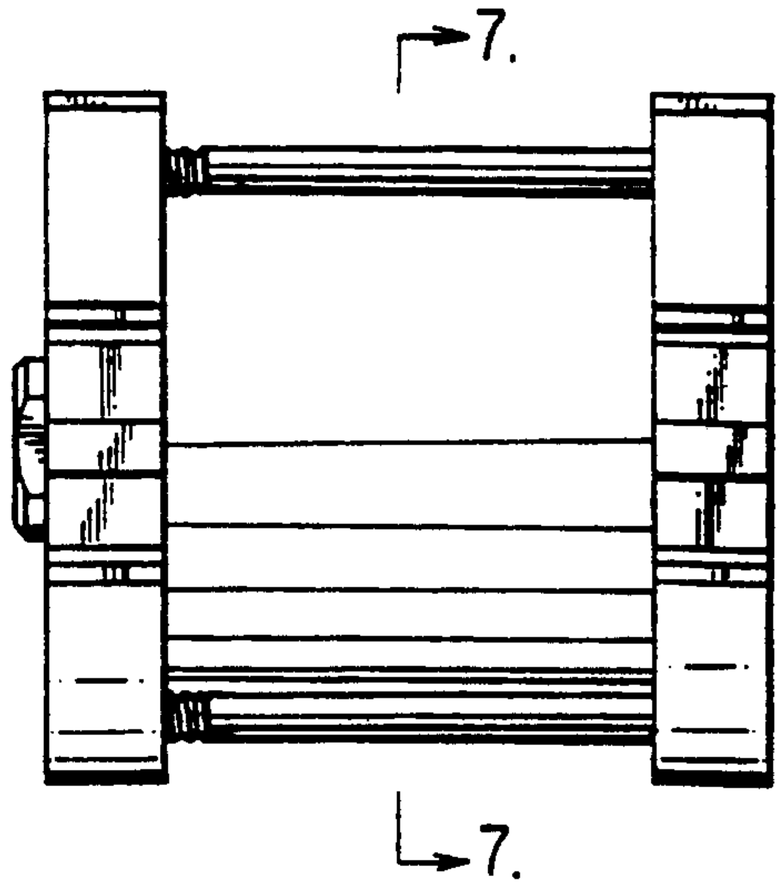


FIG. 4

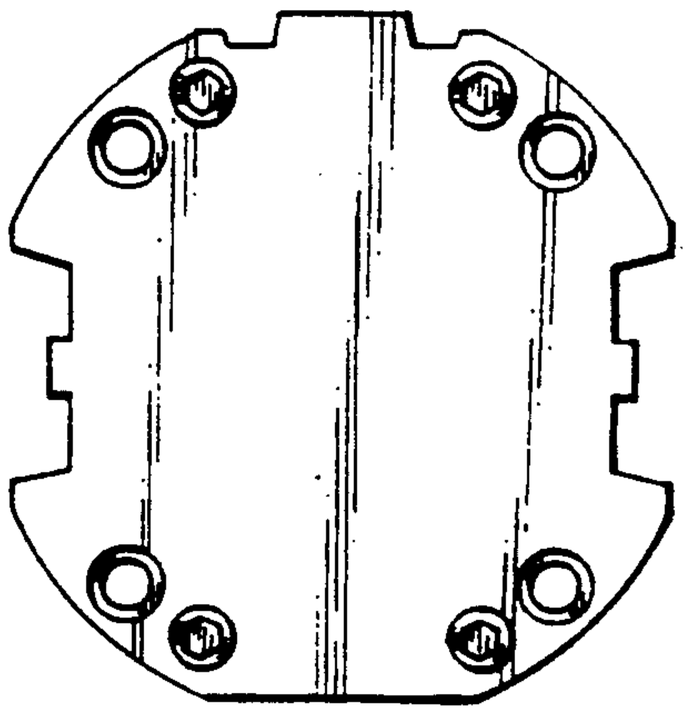


FIG. 5

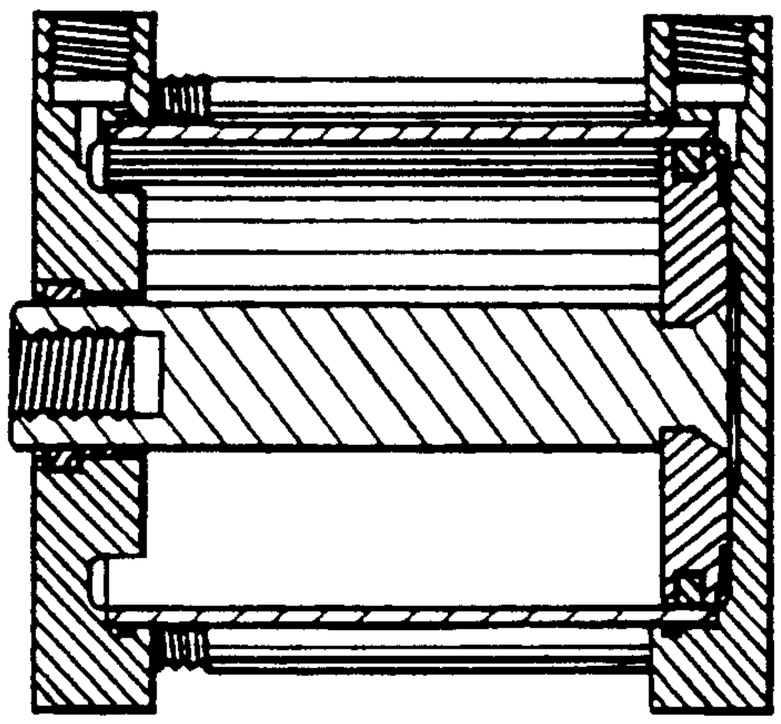


FIG. 6

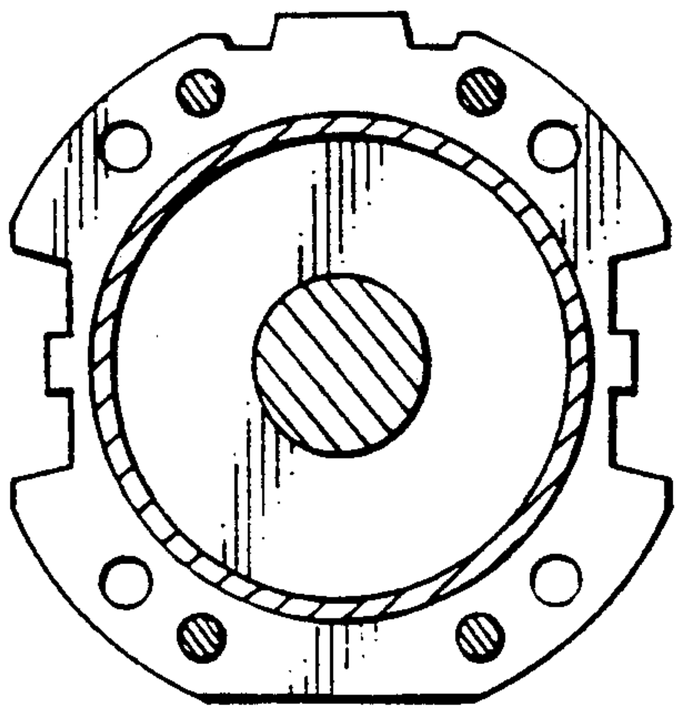


FIG. 7

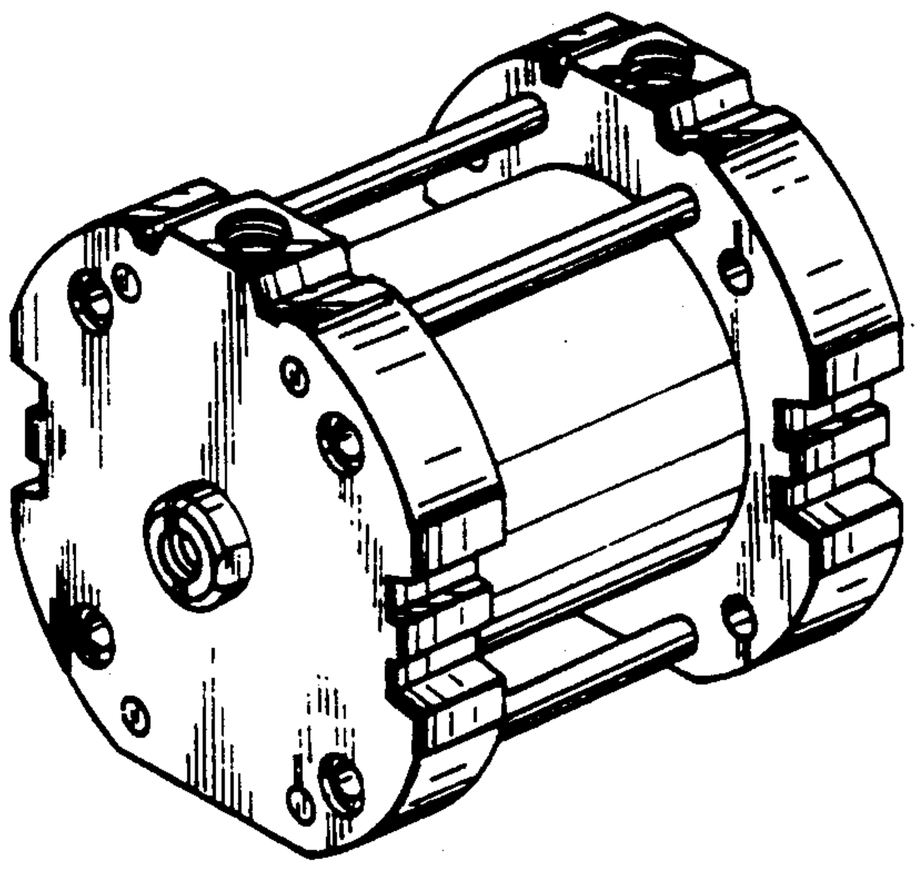


FIG. 8

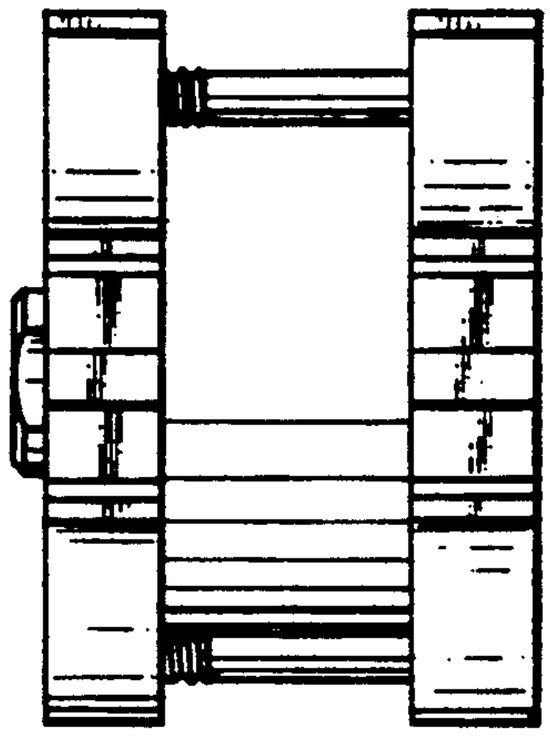


FIG. 9

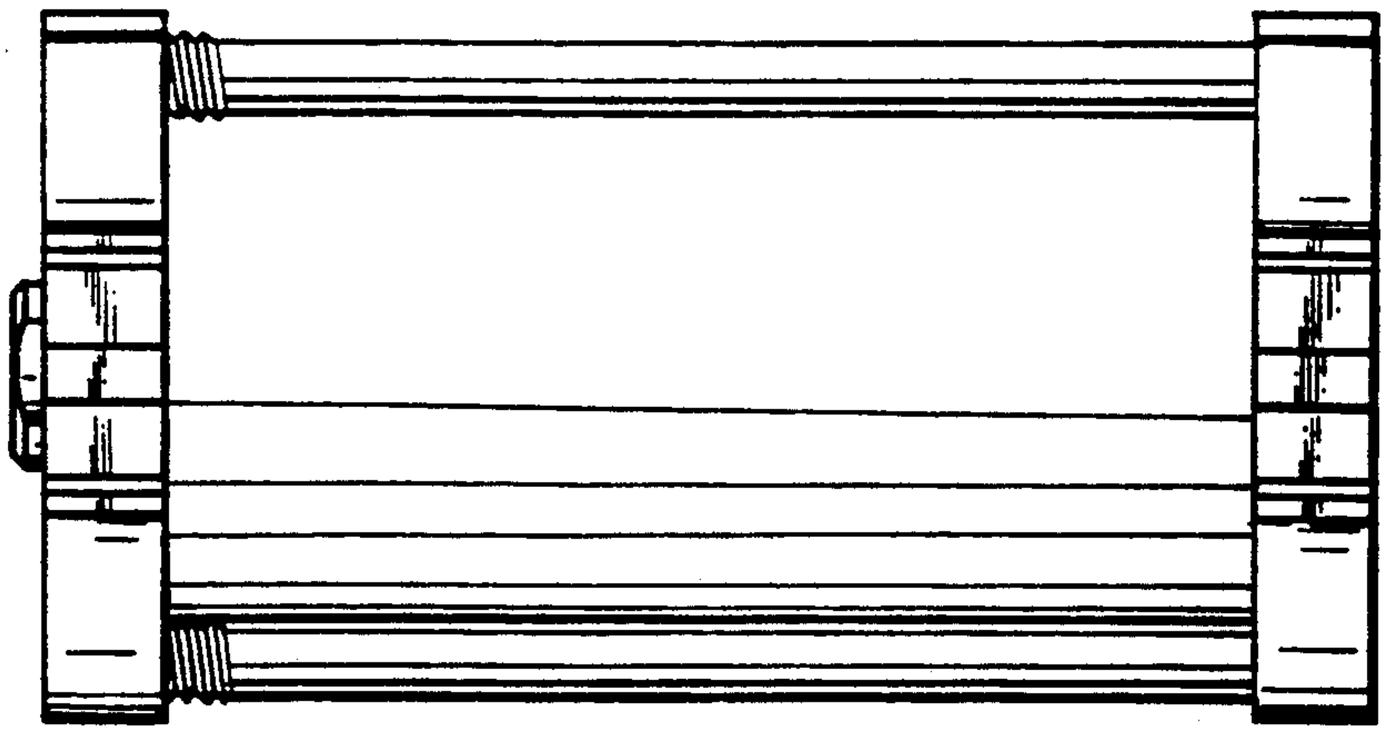


FIG. 10

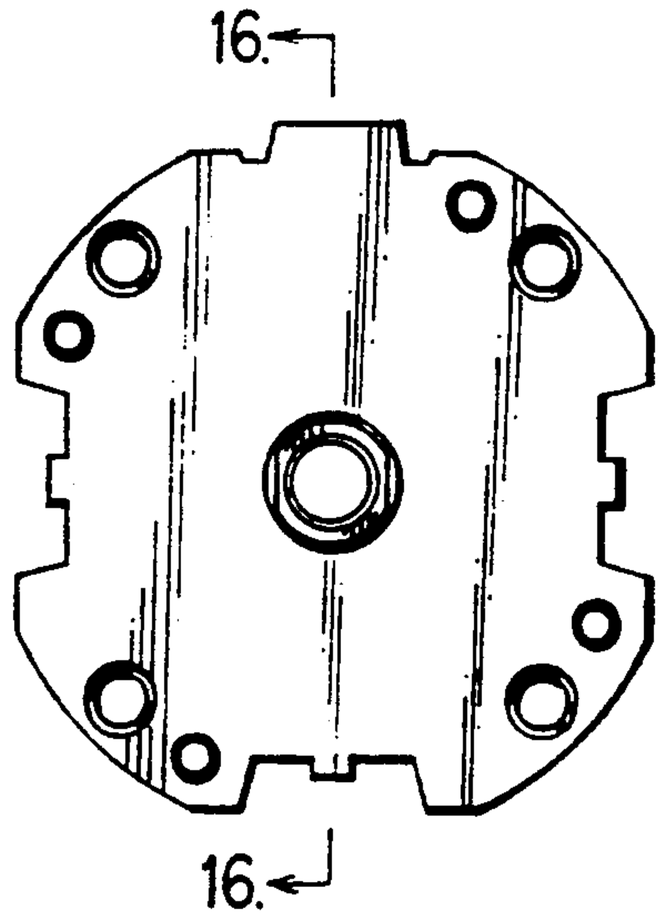


FIG. 11

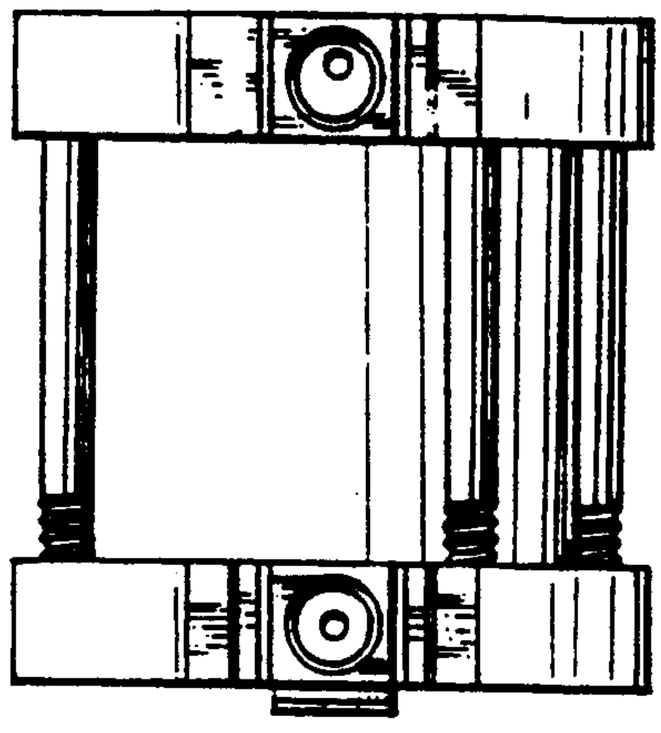


FIG. 12

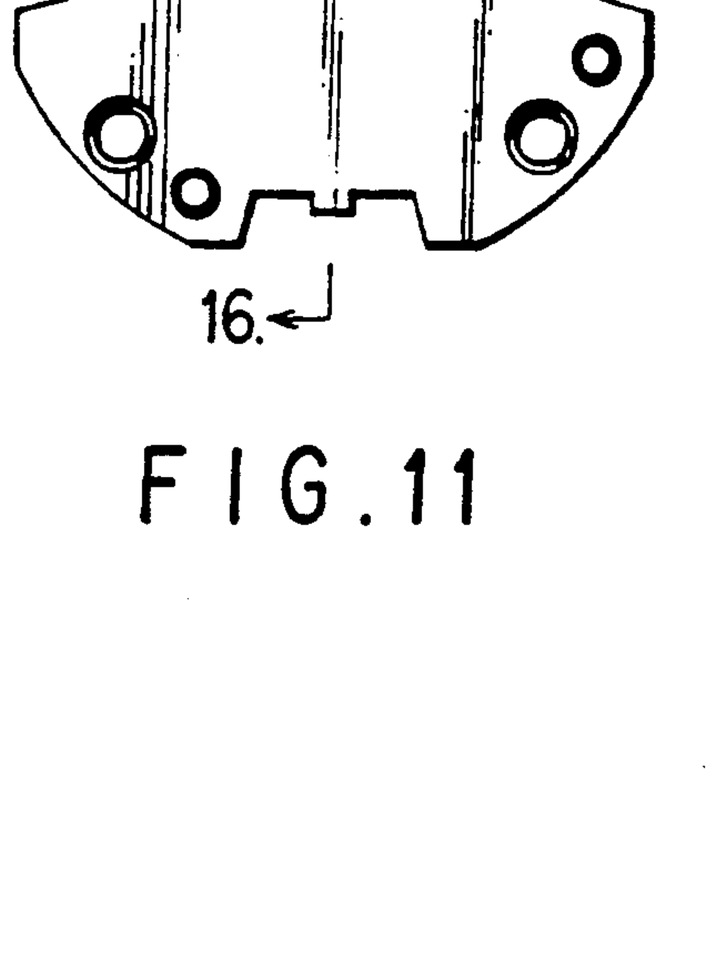


FIG. 13

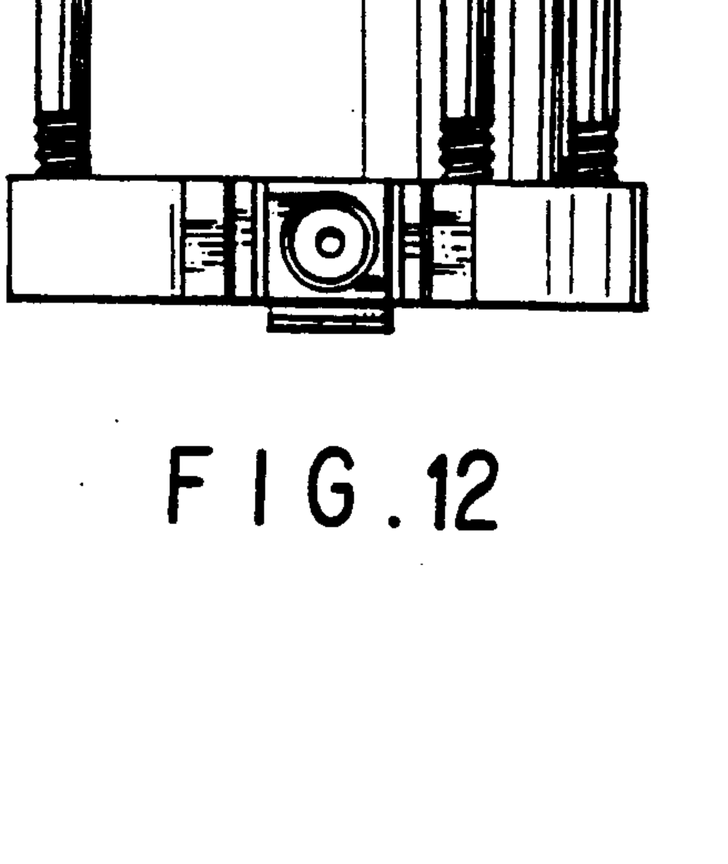


FIG. 14

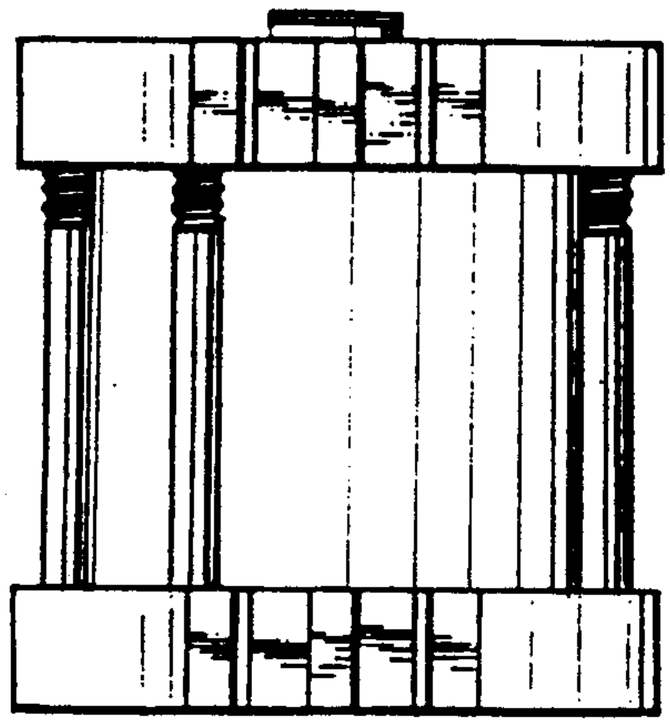


FIG. 15

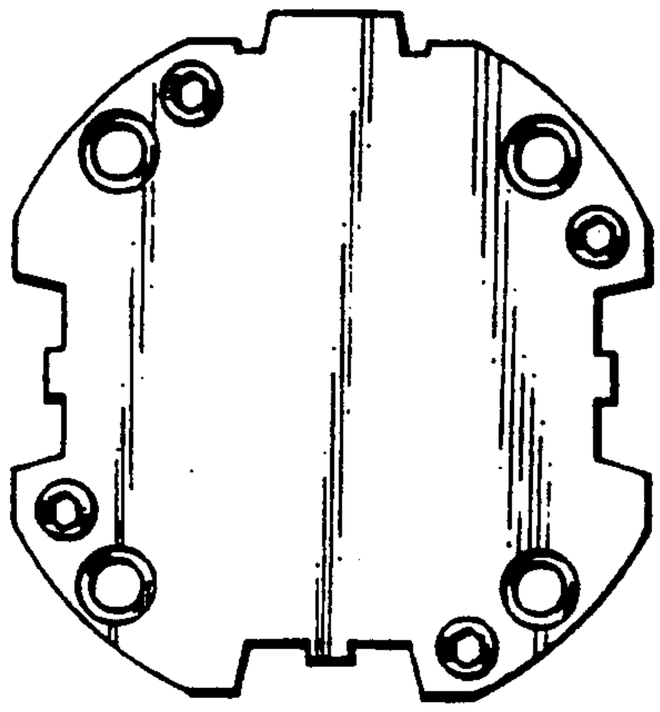


FIG. 16

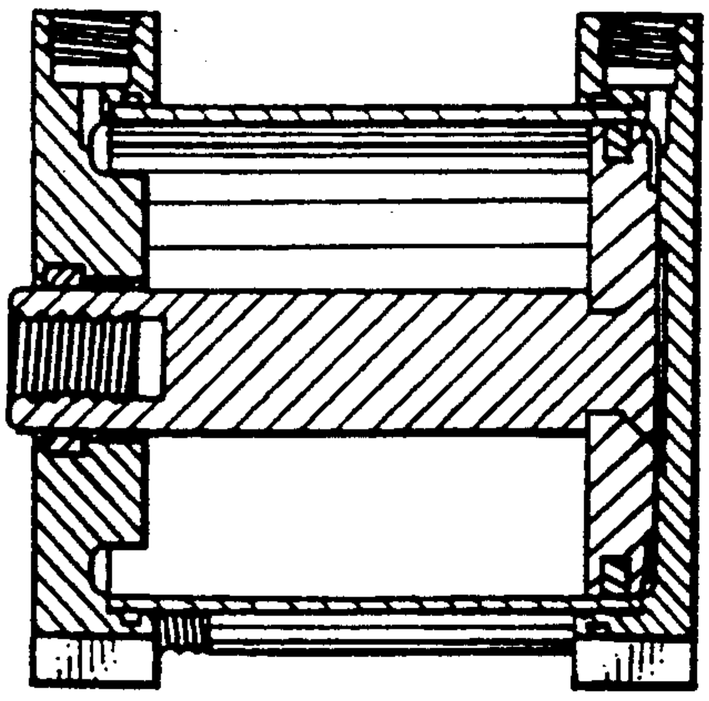


FIG. 17

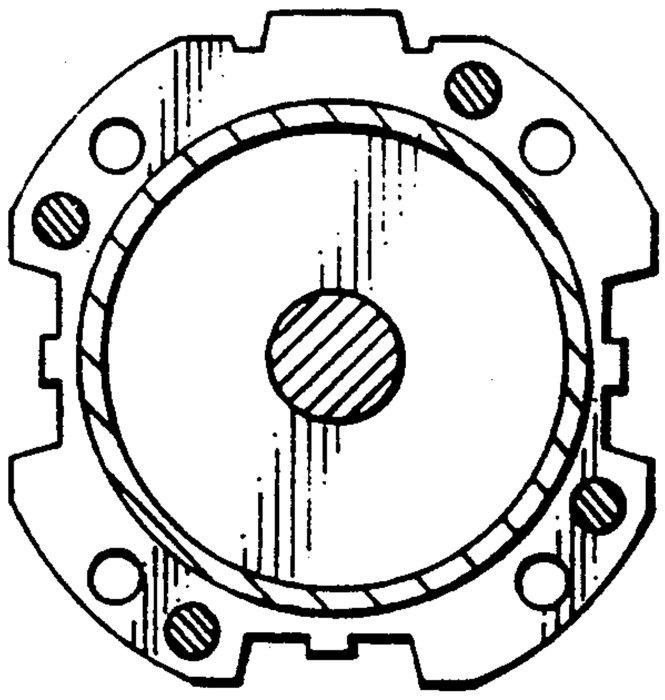


FIG. 18

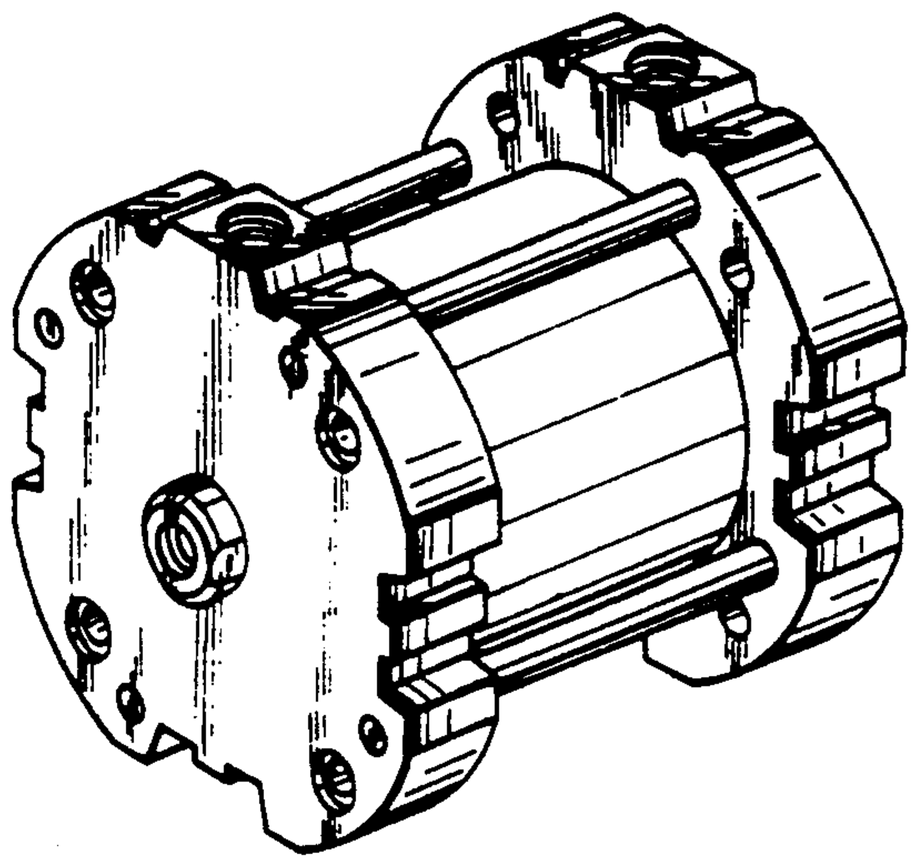


FIG. 19

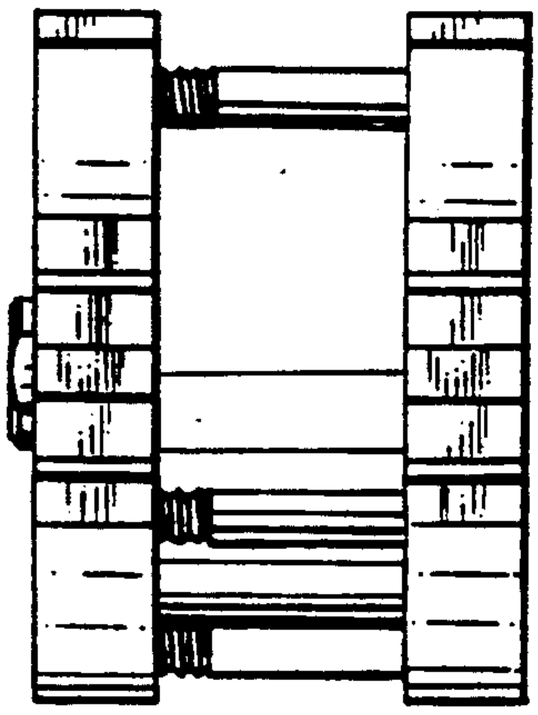


FIG. 20

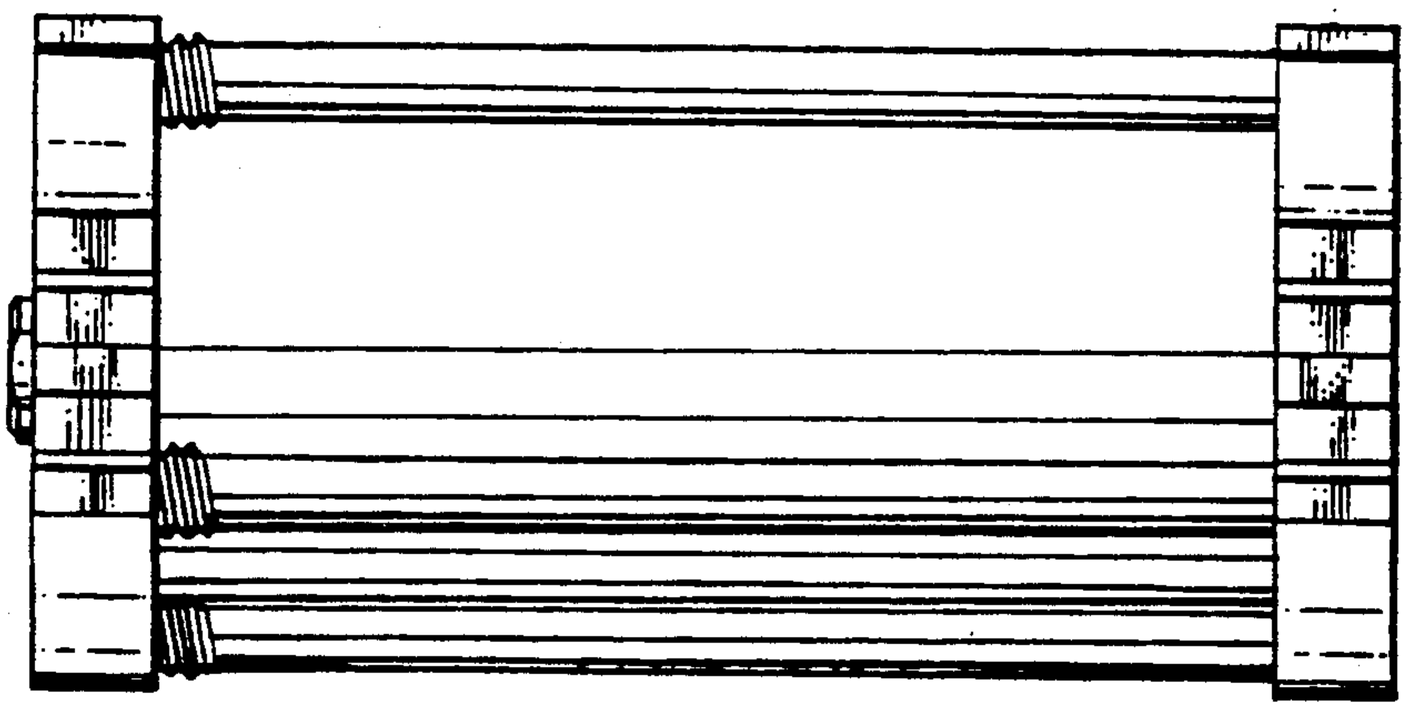


FIG. 21