



US00D383263S

United States Patent [19] Smith

[11] Patent Number: Des. 383,263
[45] Date of Patent: **Sep. 2, 1997

[54] TUBE CLEANER
[76] Inventor: **Graham Hubert Smith**, 9/15 Randall Court, Collaroy, NSW, 2097, Australia
[**] Term: 14 Years

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[21] Appl. No.: 37,443
[22] Filed: Apr. 7, 1995
[30] Foreign Application Priority Data
Oct. 7, 1994 [AU] Australia 3356/94
[51] LOC (6) Cl. 15-05
[52] U.S. Cl. D32/25
[58] Field of Search D32/25, 40, 45, D32/46; 15/104.061, 104.062, 3.51

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Assistant Examiner—Mitchell I. Siegel
Attorney, Agent, or Firm—Brinks Hofer Gilson & Lione

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[57] CLAIM

The ornamental design for a tube cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a top view of a tube cleaner showing my new design;
FIG. 2 is a side view of the tube cleaner of FIG. 1;
FIG. 3 is a bottom view of the tube cleaner of FIG. 1;
FIG. 4 is a perspective view of the tube cleaner of FIG. 1;
FIG. 5 is a top view of a second embodiment of the tube cleaner of FIG. 1;
FIG. 6 is a side view of the tube cleaner of FIG. 5;
FIG. 7 is a bottom view of the tube cleaner of FIG. 5; and,
FIG. 8 is a perspective view of the tube cleaner of FIG. 5.

1 Claim, 2 Drawing Sheets

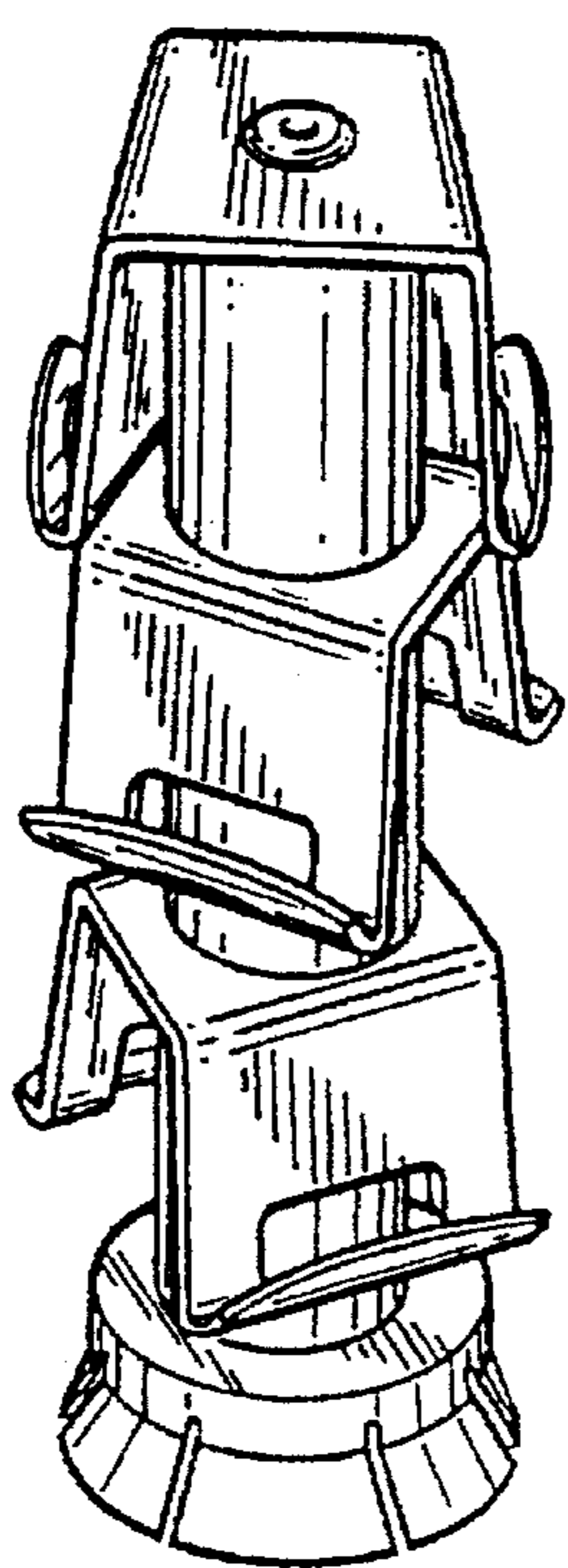


FIG. 1

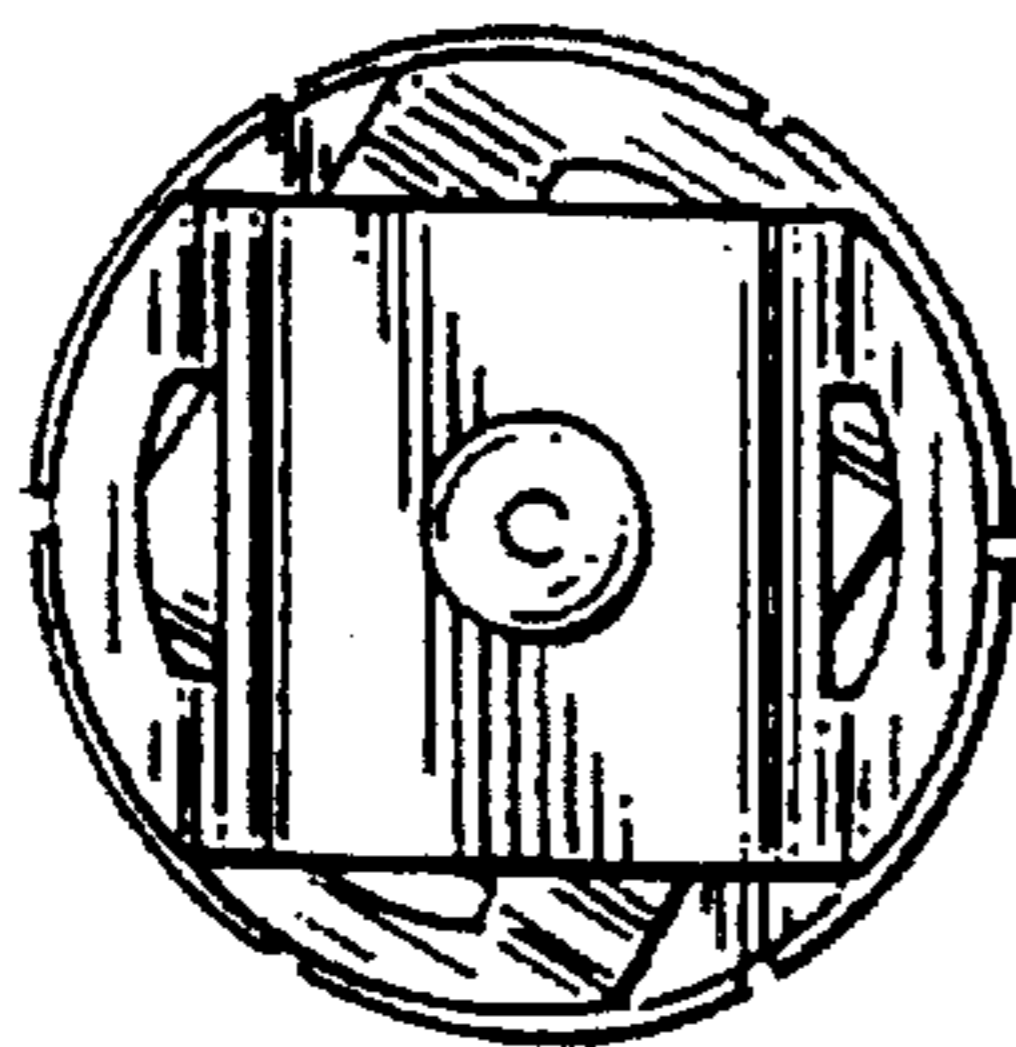


FIG. 2

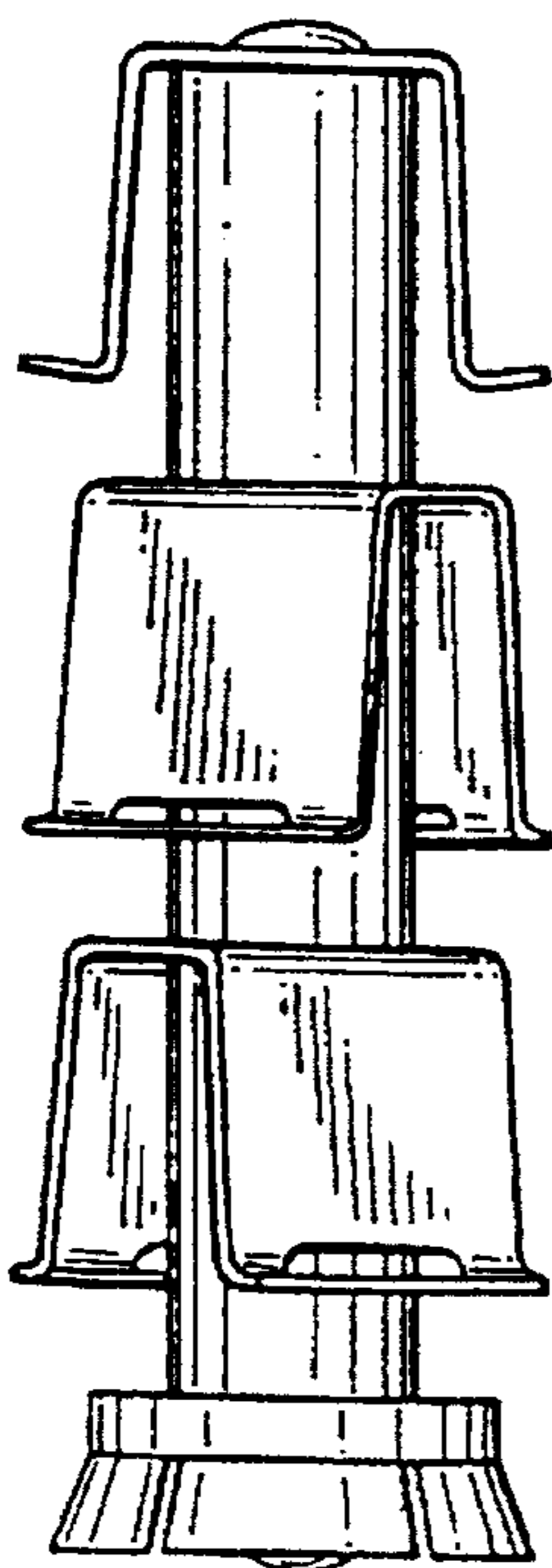


FIG. 4

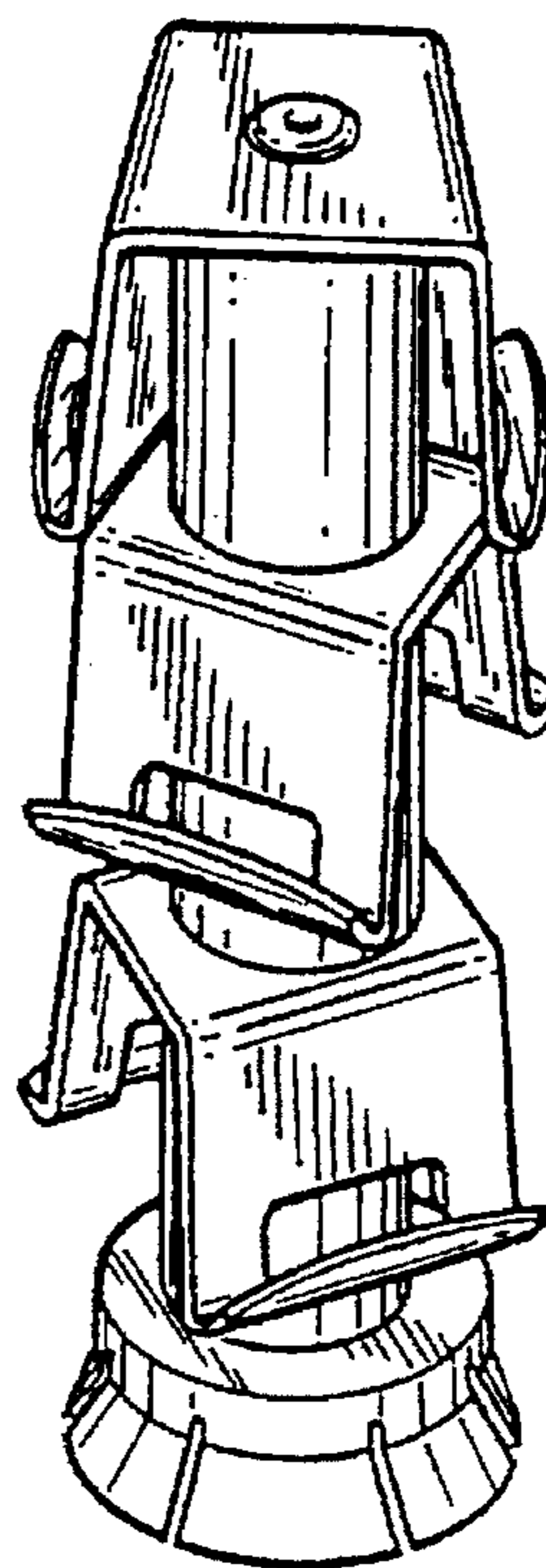


FIG. 3

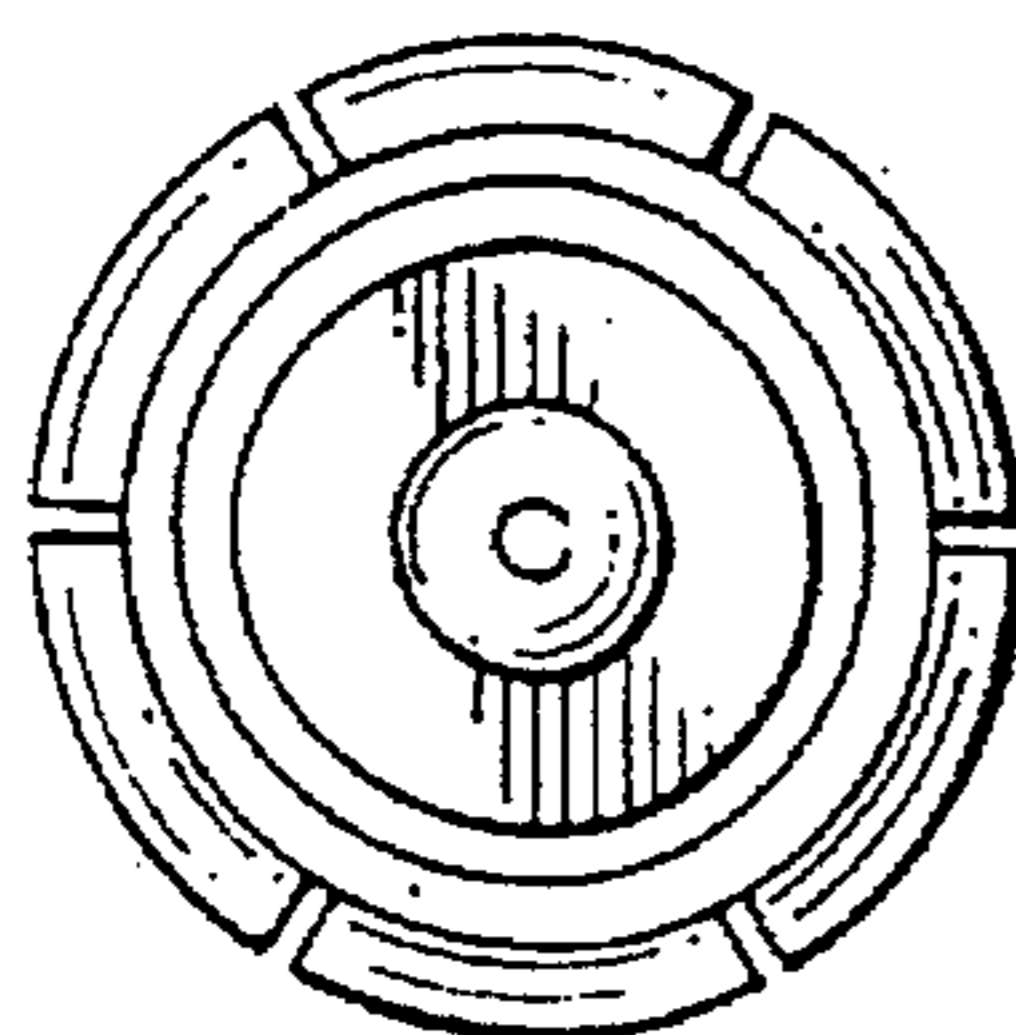


FIG. 5

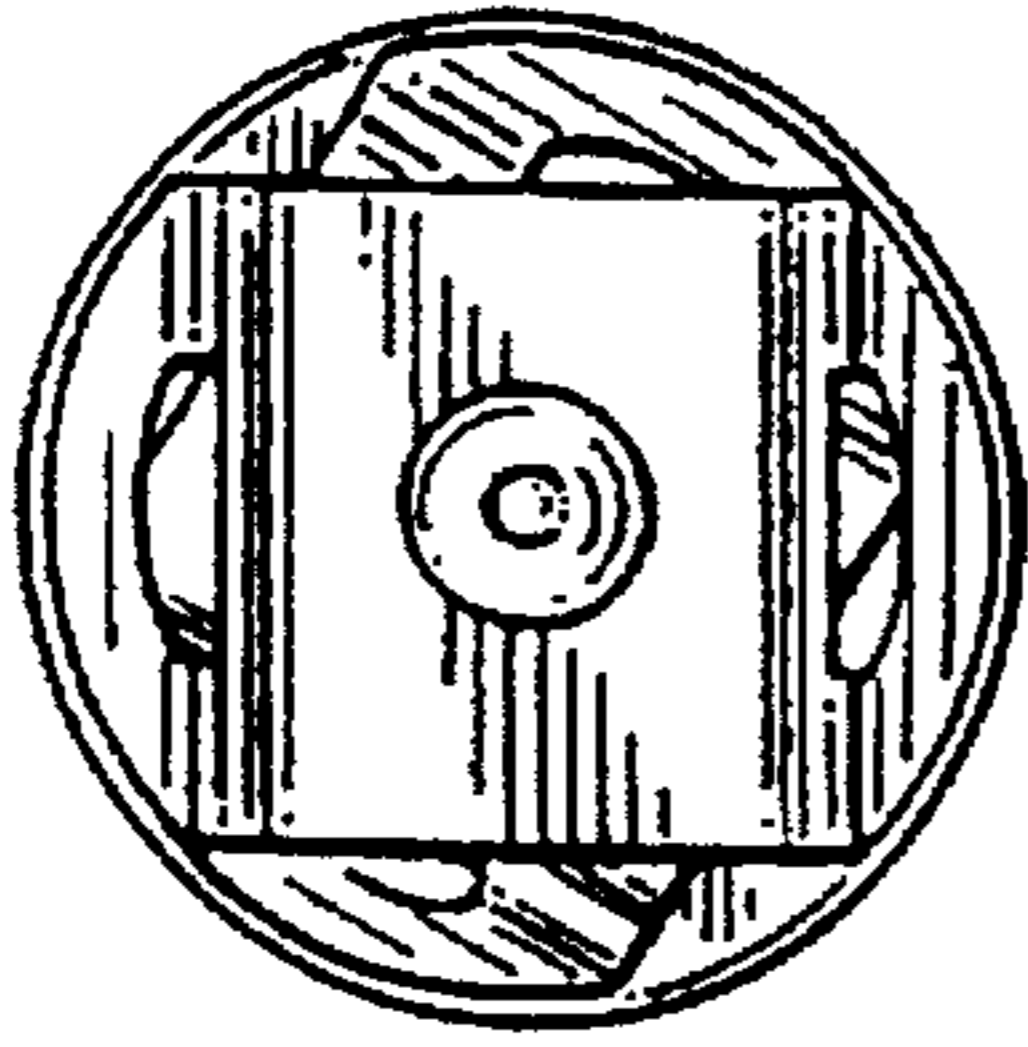


FIG. 6

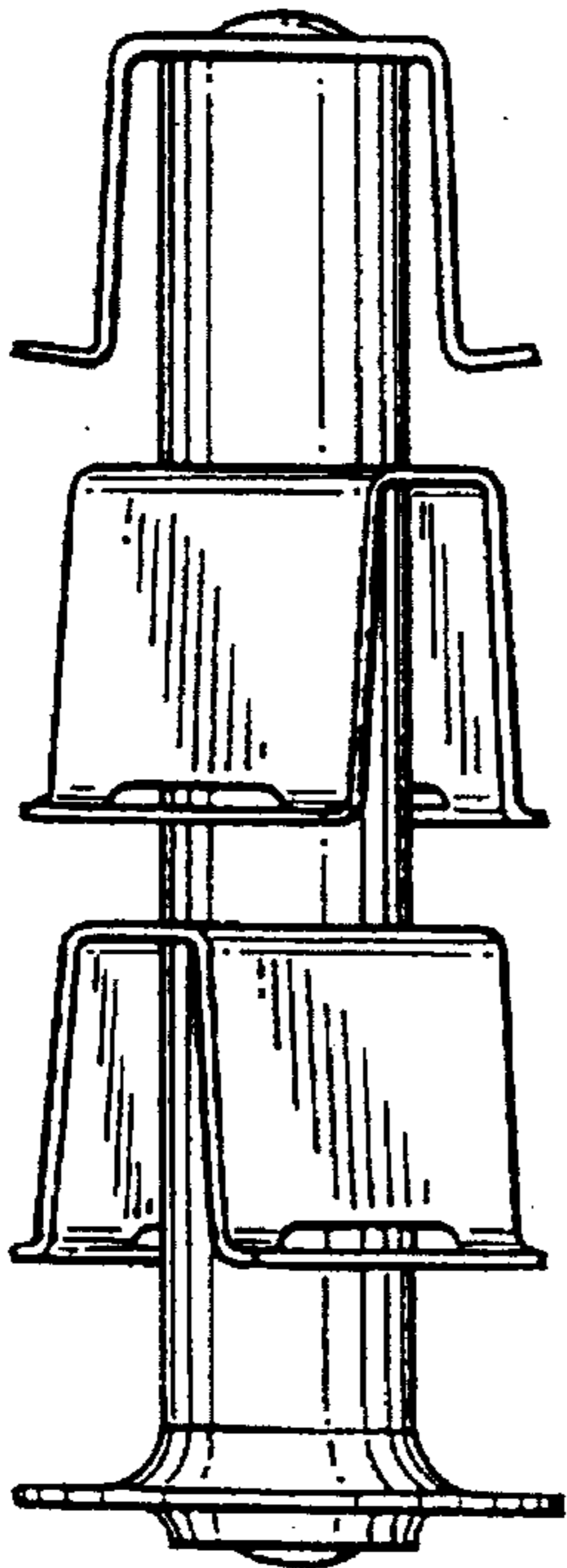


FIG. 8

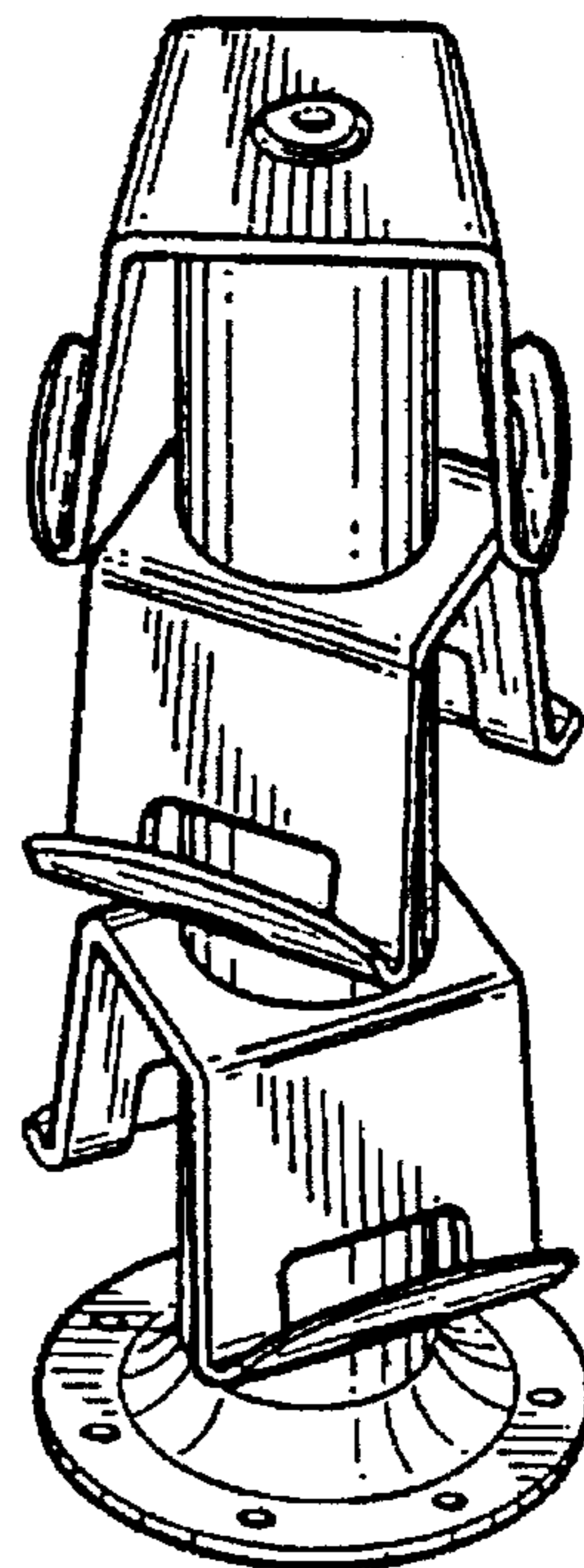
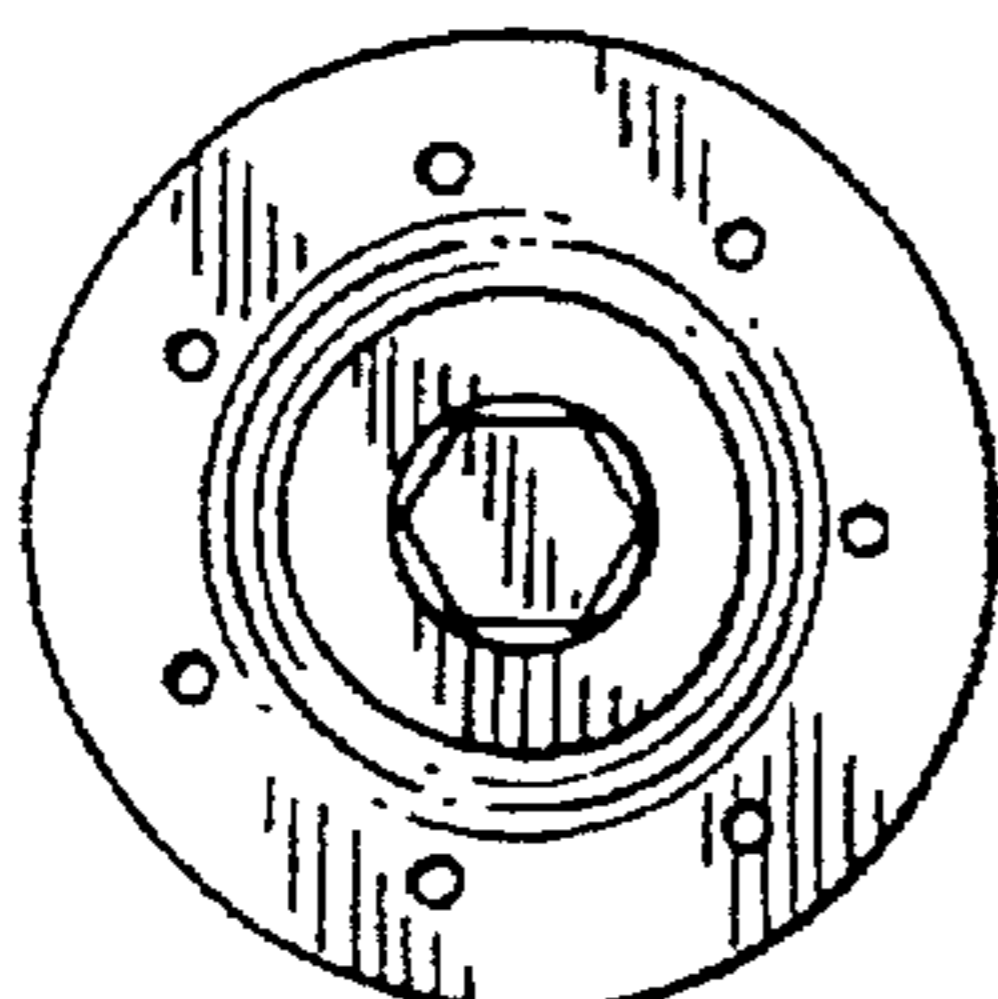


FIG. 7





US008383263B1

REEXAMINATION CERTIFICATE (4238th)

United States Patent [19]

[11] **B1 Des. 383,263**

Smith

[45] **Certificate Issued Dec. 26, 2000**

[54] **TUBE CLEANER**

[51] **LOC (7) Cl.** 15-05

[75] **Inventor: Graham Hubert Smith, 9/15 Randall Court, Collaroy, NSW, 2097, Australia**

[52] **U.S. Cl.** **D32/25**

[58] **Field of Search** D32/25, 40, 45, D32/46; 15/104.061, 104.062, 3.51

[73] **Assignee: Graham Hubert Smith, Collaroy, Australia**

[56] **References Cited**

Reexamination Request:

No. 90/005,097, Sep. 1, 1998

PUBLICATIONS

Reexamination Certificate for:

Patent No.: **Des. 8,383,263**
Issued: **Sep. 2, 1997**
Appl. No.: **29/037,443**
Filed: **Apr. 7, 1995**

Conco Systems, Inc. brochure published 1987, pp 1-4.

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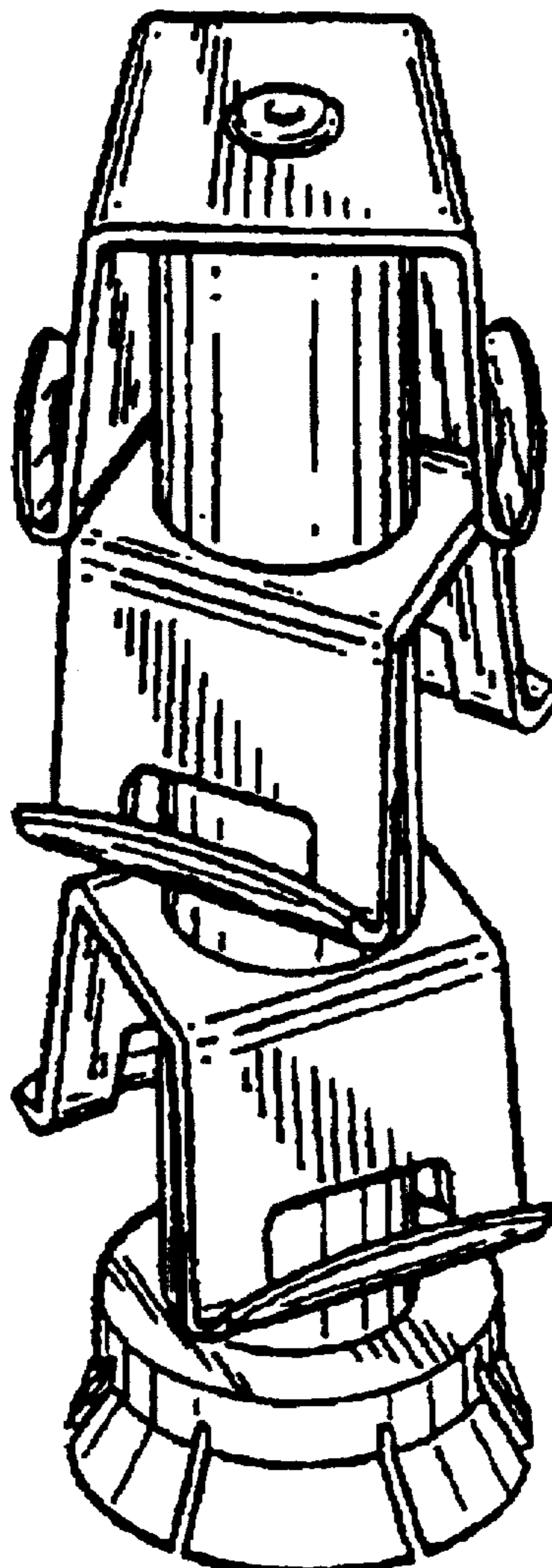
Energy Focus, p. 1 of reprint of article published Oct. 1989 by Department of Minerals and Energy, New South Wales, Australia.

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

[30] **Foreign Application Priority Data**

Oct. 7, 1994 [AU] Australia 3356/94

Primary Examiner—Mitchell Siegel



B1 Des. 383,263

1
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307

NO AMENDMENTS HAVE BEEN MADE TO
THE PATENT

2
AS A RESULT OF REEXAMINATION, IT HAS BEEN
DETERMINED THAT:

The patentability of claim 1 is confirmed.

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