US00D378683S

United States Patent [19]

Ridinger

[11] **Patent Number: Des. 378,683**

[45] **Date of Patent: **Apr. 1, 1997**

[54] **GUITAR TUNER WITH ANALOG-SIMULATIVE LIQUID CRYSTAL DISPLAY**

[76] Inventor: **Steve Ridinger**, P.O. Box 2769, Laguna Hills, Calif. 92654-2769

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

[21] Appl. No.: **46,828**

[22] Filed: **Nov. 16, 1995**

[52] **U.S. Cl.** **D17/99**; D10/102

[58] **Field of Search** D10/46, 75, 78, D10/96, 102, 106, 122, 123; D17/20, 99; 84/454

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 250,178	11/1978	Maxwell et al.	D10/75
D. 319,250	8/1991	Iinuma	D17/99
D. 363,890	11/1995	Nieman	D10/102
3,433,116	3/1969	Althoff	84/454
4,365,537	12/1982	Pogoda	84/454

OTHER PUBLICATIONS

Music Trades, Sep. 1988 p. 87 (The Digital Chromatina Tuner).

Primary Examiner—Ted Shooman

Assistant Examiner—Adir Aronovich

Attorney, Agent, or Firm—DeWitt Ross & Stevens S.C.

[57] **CLAIM**

An ornamental design for a guitar tuner with an analog-simulative liquid crystal display, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a guitar tuner with an analog-simulative liquid crystal display showing my new design;

FIG. **2** is a top plan view thereof;

FIG. **3** is a bottom plan view thereof;

FIG. **4** is a right side elevational view thereof;

FIG. **5** is a left side elevational view thereof;

FIG. **6** is a front elevational view thereof;

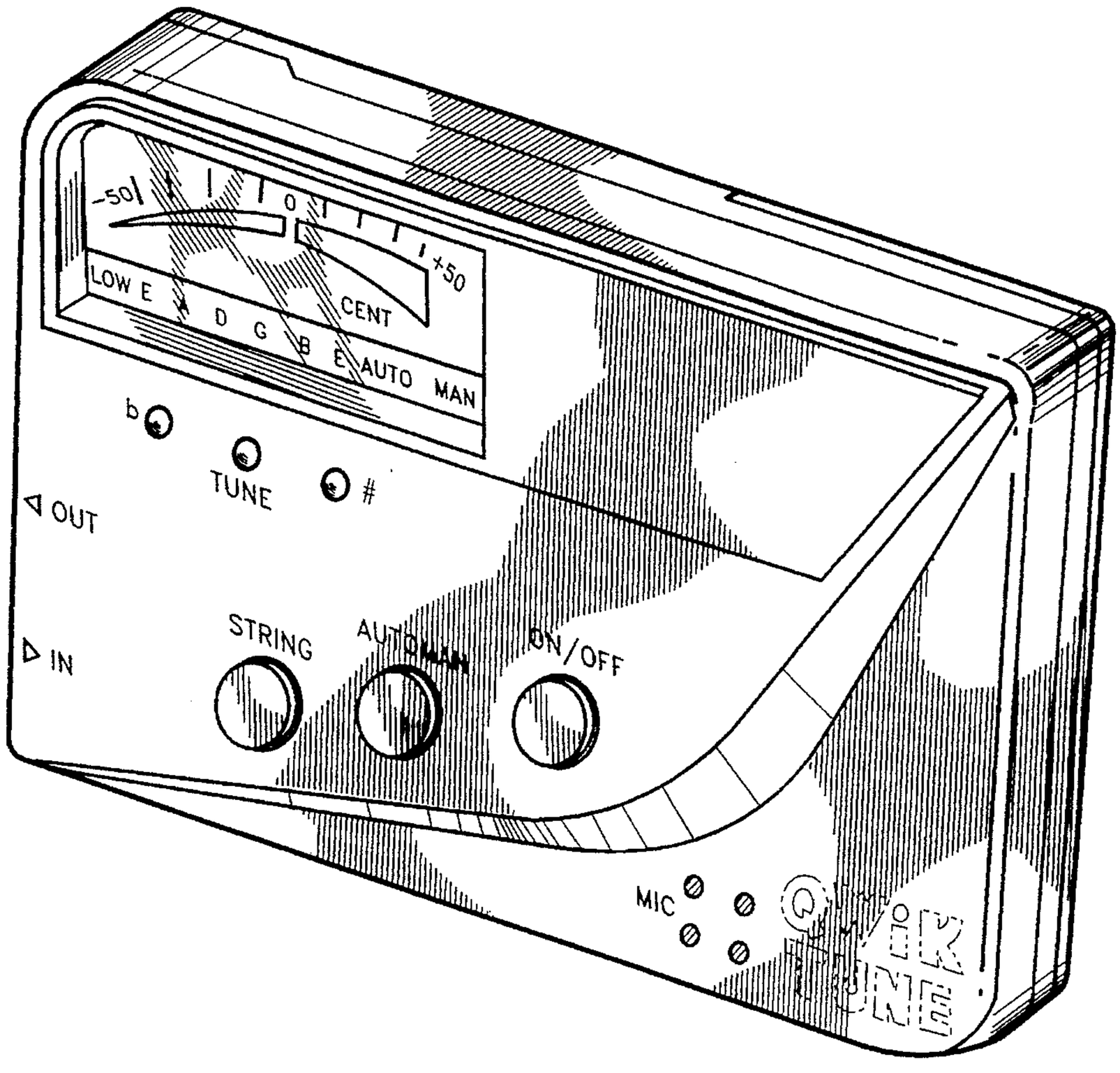
FIG. **7** is a rear elevational view thereof;

FIG. **8** is an enlarged fragmentary view of the analog-simulative liquid crystal display in a non-operational position; and,

FIG. **9** is an enlarged fragmentary view of the analog-simulative liquid crystal display in an operational position.

The broken line showing of the printed matter "QWiK TUNE" in FIG. **1** is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets



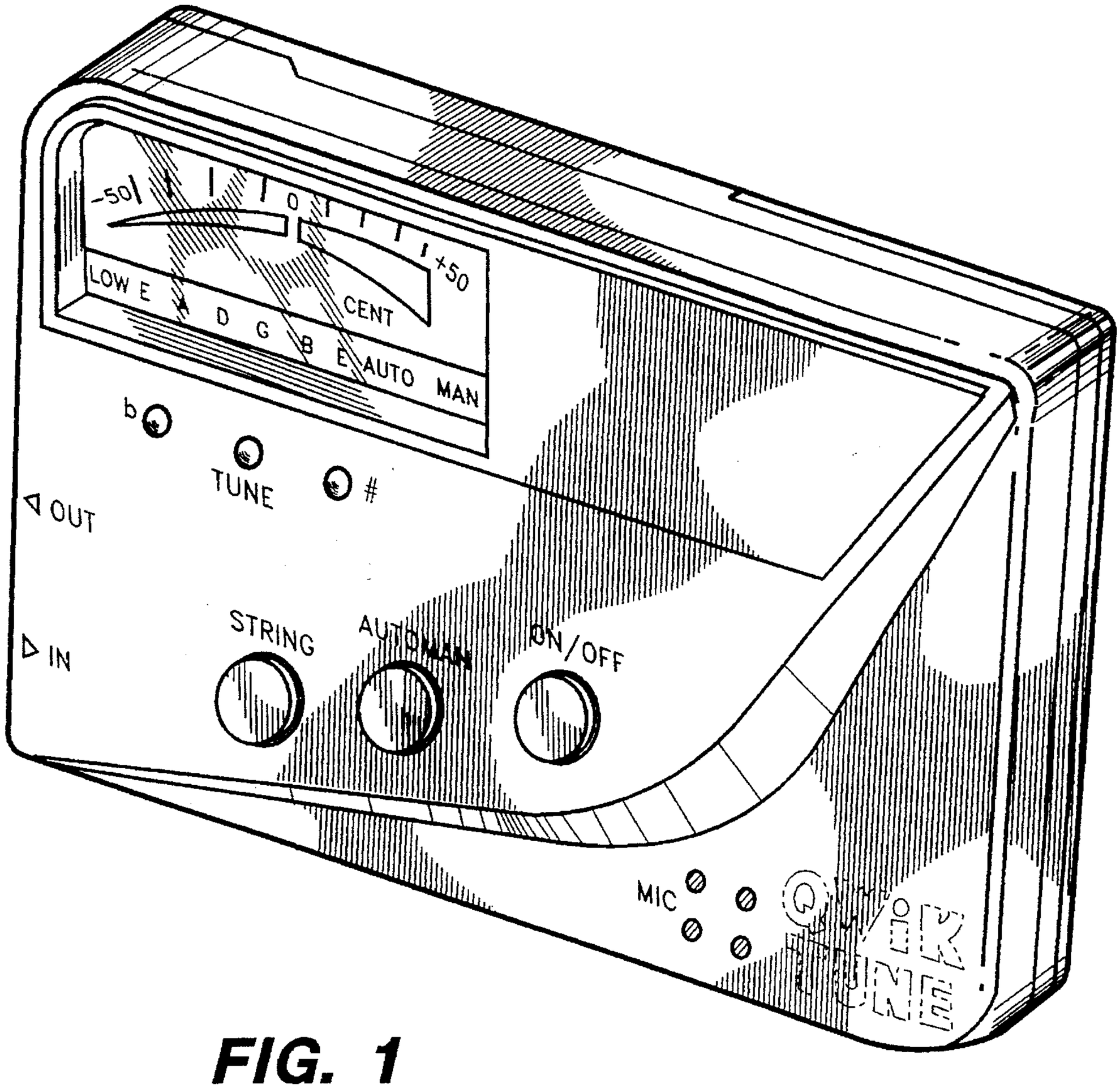

-50
0
+50
LOW E
A
D
G
B
E
CENT
AUTO
MAN
b
TUNE
#
OUT
IN
STRING
AUTO/MAN
ON/OFF
MIC
QUIK LOK

FIG. 1

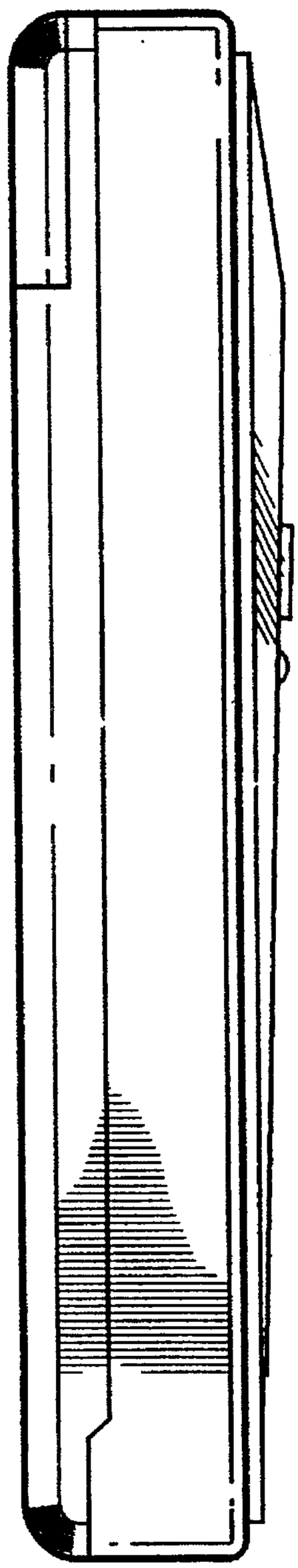


FIG. 2

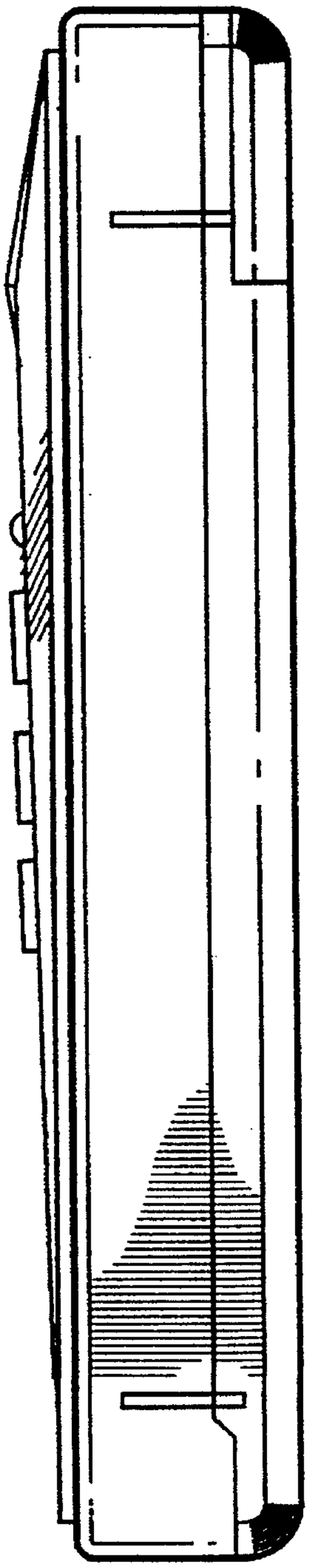


FIG. 3

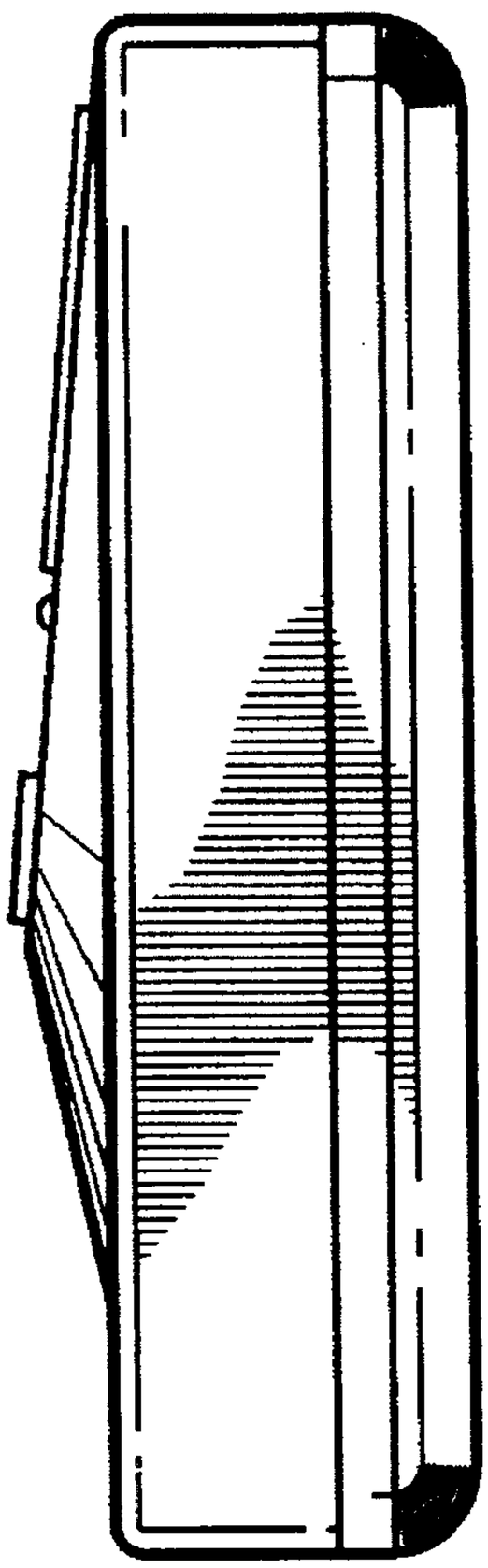


FIG. 4

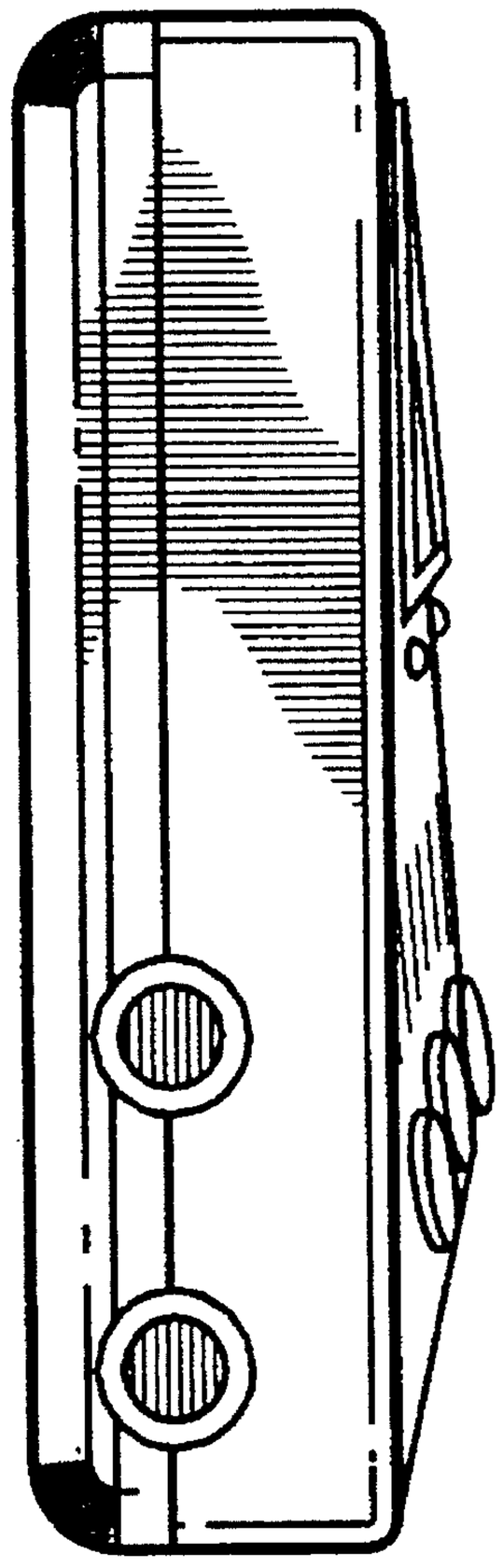


FIG. 5

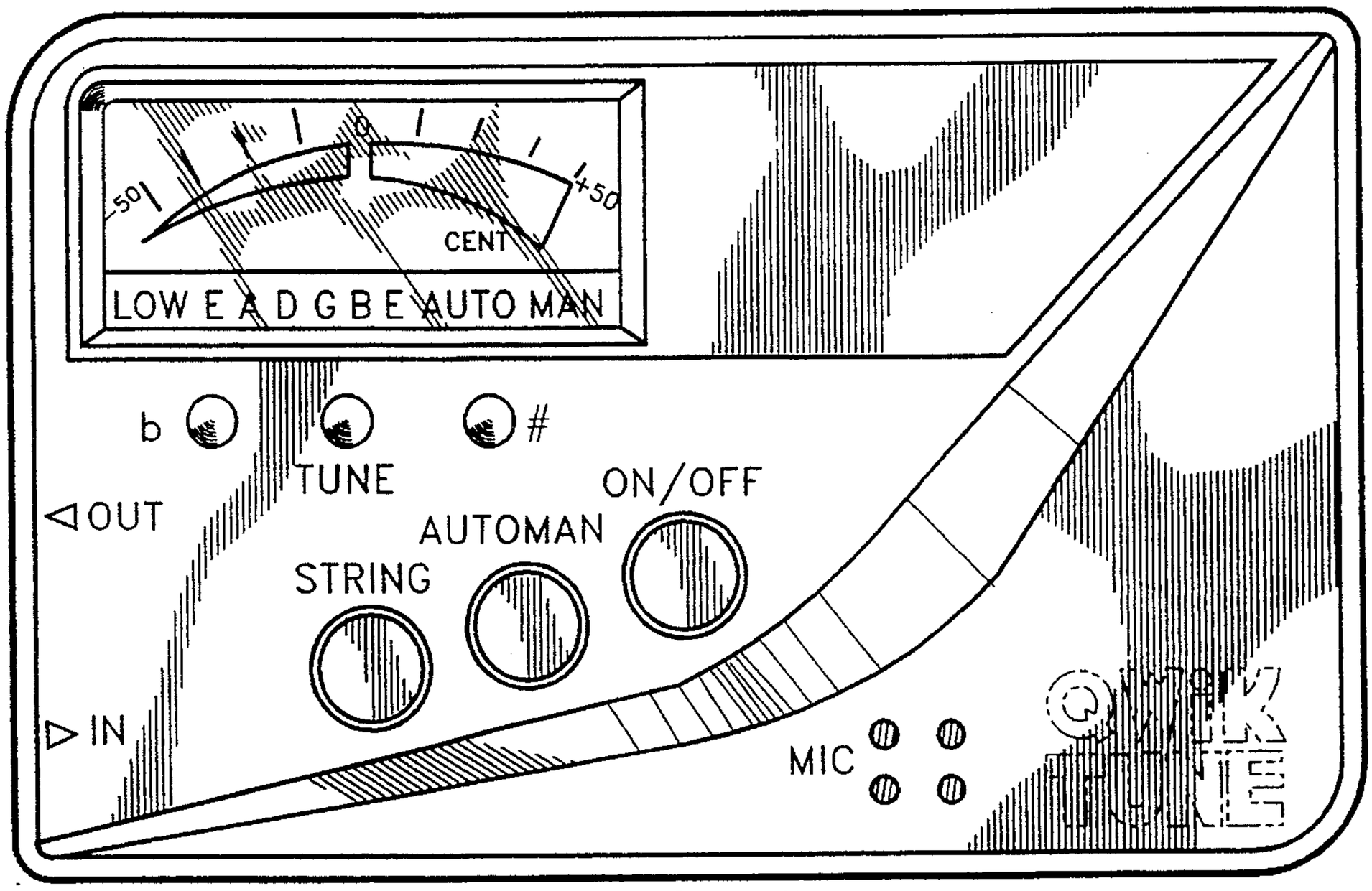

-50
0
+50
CENT
LOW E A D G B E AUTO MAN
b
#
TUNE
ON/OFF
OUT
AUTOMAN
STRING
IN
MIC

FIG. 6

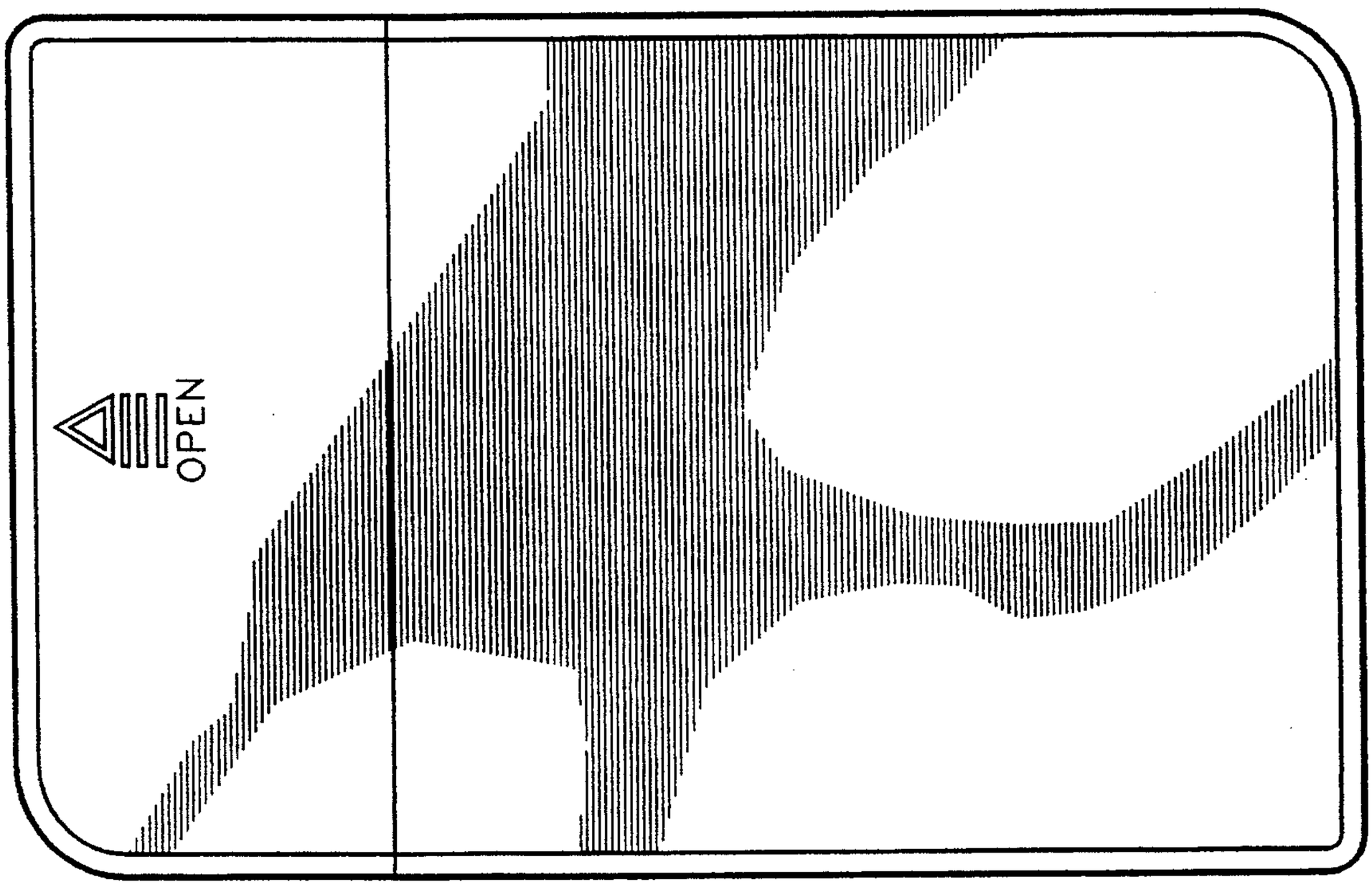

OPEN

FIG. 7

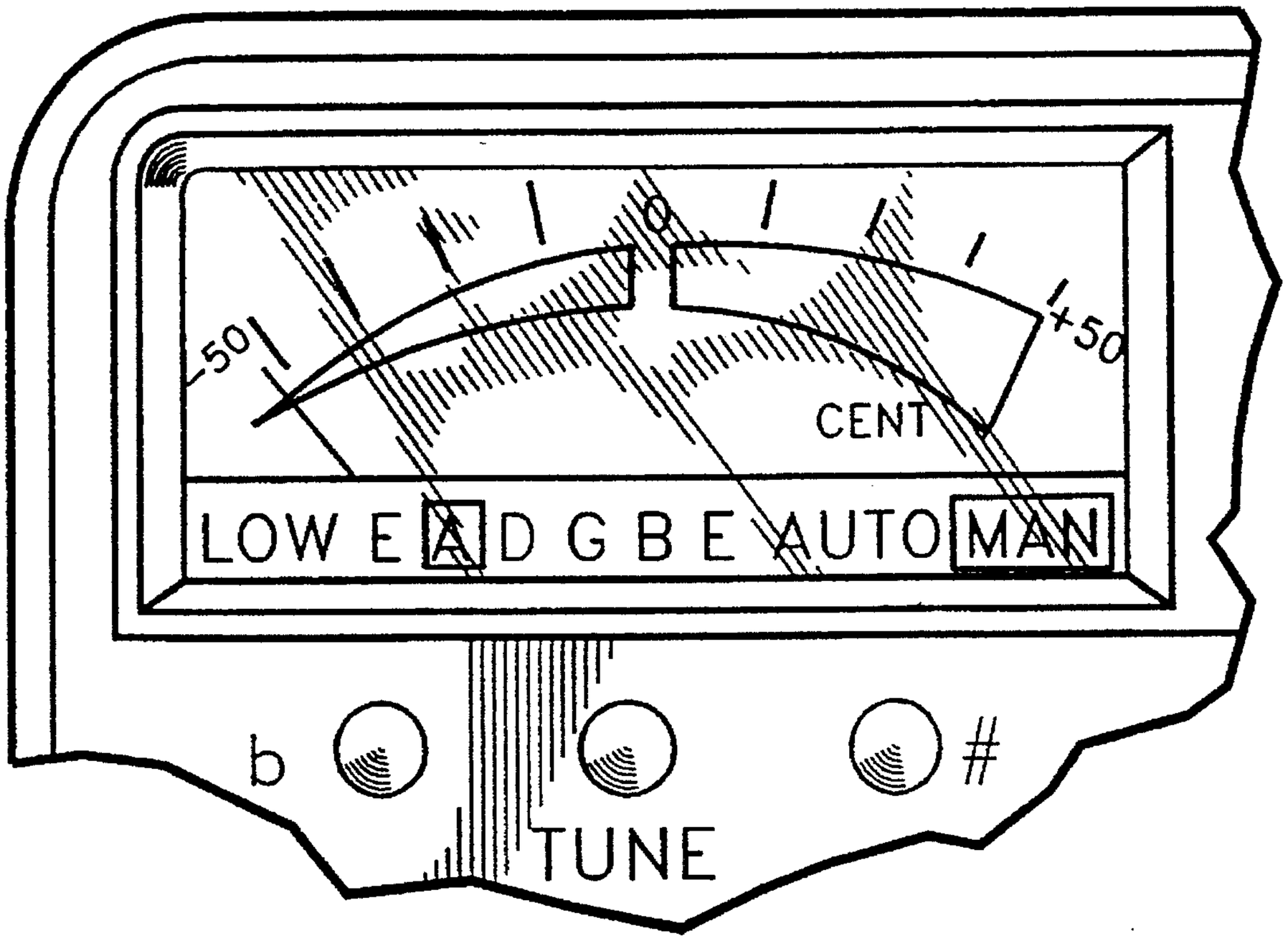

0
-50
+50
CENT
LOW E A D G B E AUTO MAN
b
#
TUNE

FIG. 8

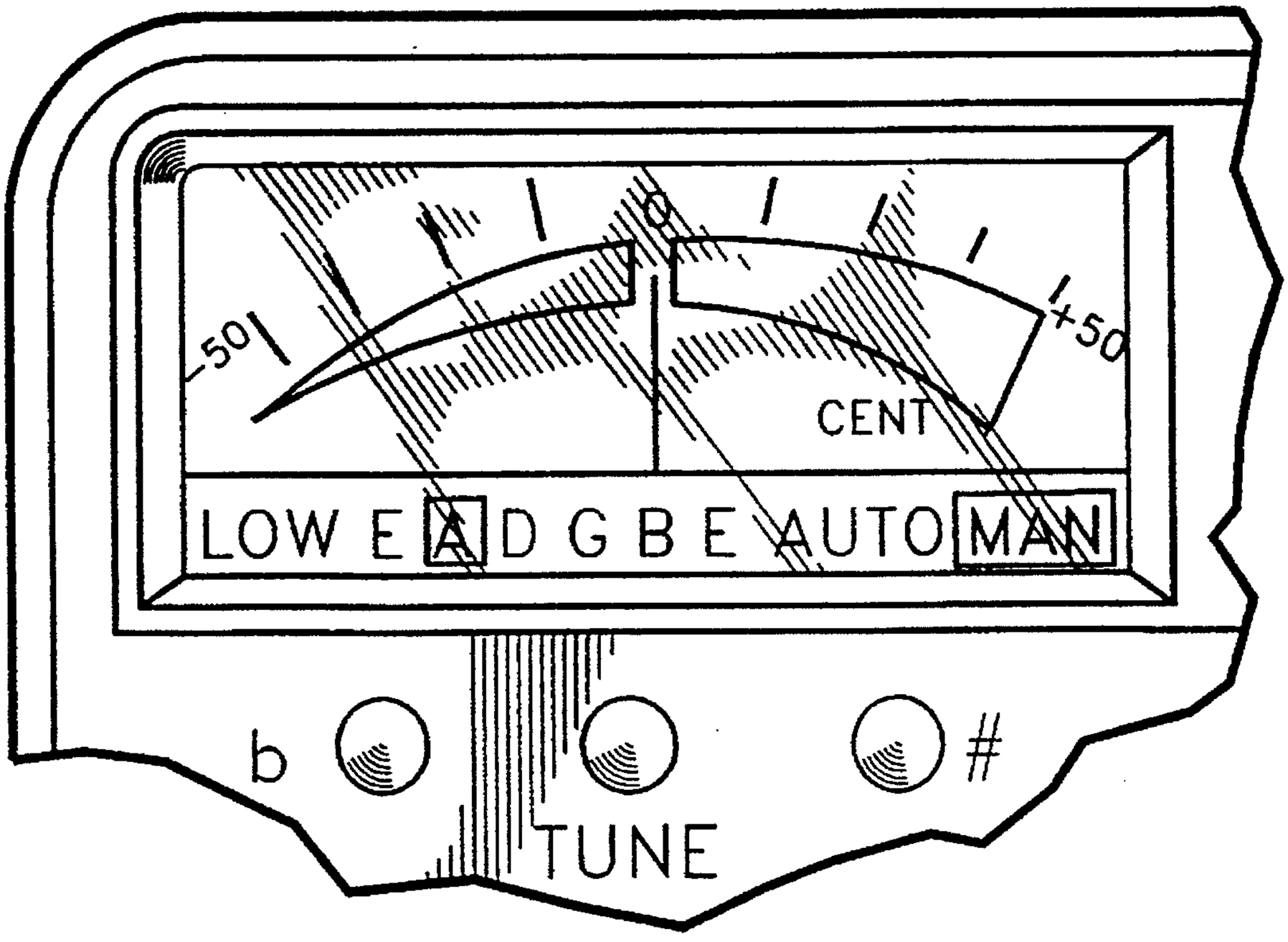

0
-50
+50
CENT
LOW E A D G B E AUTO MAN
b
#
TUNE

FIG. 9