

[54] HOUSING FOR LASER OPTICAL  
FOCUSING ELEMENTS FOR LASER  
WELDING MACHINE

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[\*\*] Term: 14 Years

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[52] U.S. Cl. .... D13/19

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LM, , 121 LS, 121 LT, 121 LU, 121 LV, 121  
LX, 121 LW, 121 LY, 121 LZ; D13/19;  
D15/144; D8/30

[56] References Cited  
U.S. PATENT DOCUMENTS

3,304,403 2/1967 Harper ..... 219/121 LP X  
3,382,343 5/1968 Muncheryow ..... 219/121 LC  
3,986,767 10/1976 Rexer et al. .... 219/121 LQ X  
4,141,456 2/1979 Hart ..... 219/121 LZ X

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[57] CLAIM

The ornamental design for a housing for laser optical  
focusing elements for a laser welding machine, as  
shown and described.

DESCRIPTION

FIG. 1 is a front isometric view of a housing for laser  
optical focusing elements for laser machine showing my  
new design;  
FIG. 2 is a front elevational view thereof;  
FIG. 3 is a rear elevational view thereof;  
FIG. 4 is a top plan view thereof;  
FIG. 5 is a side view thereof, the opposite side being a  
mirror image; and  
FIG. 6 is a view taken along section line 6—6 of FIG. 5.  
The welding machine console is fragmentarily shown in  
broken lines for illustrative purposes only.

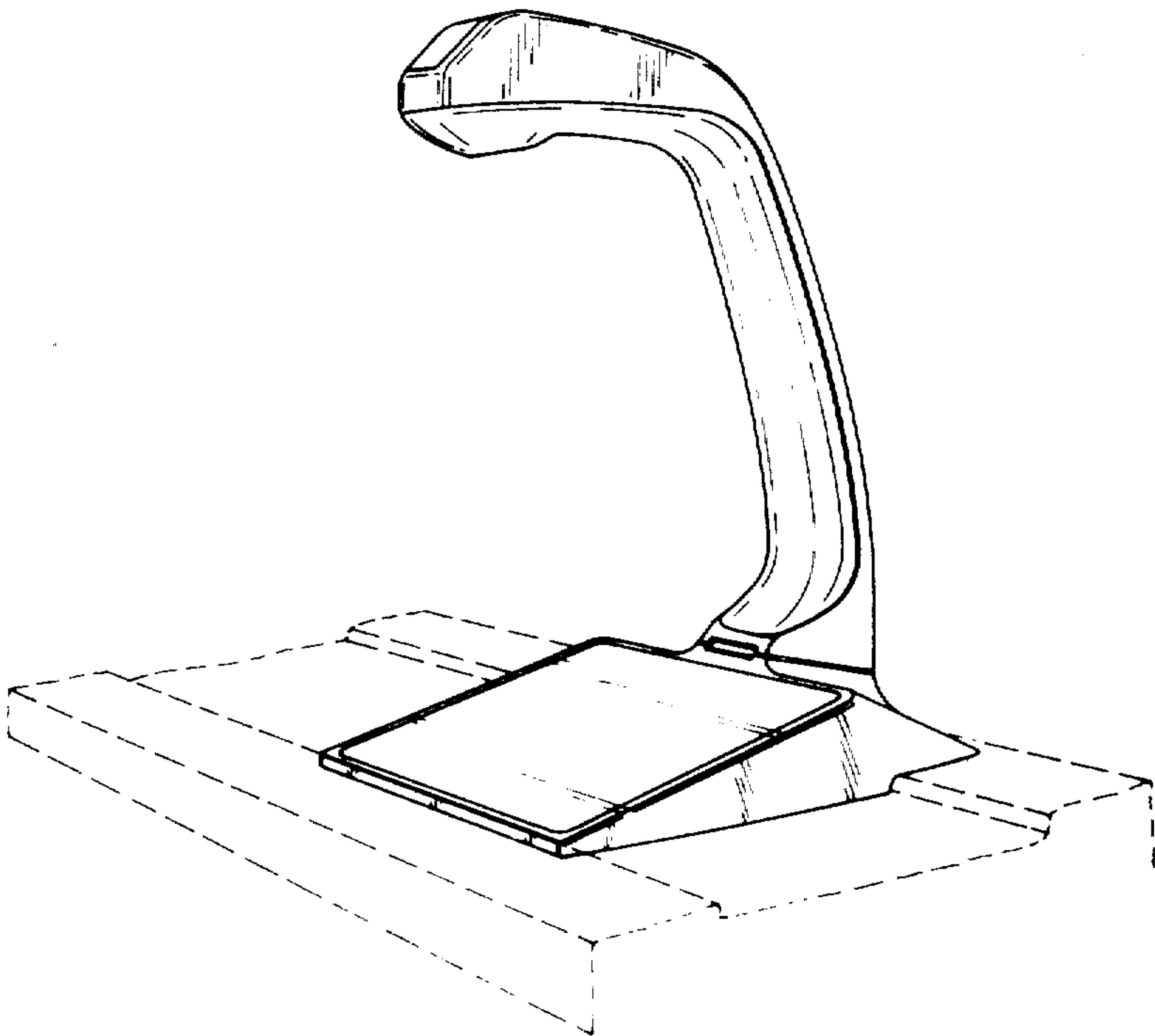


FIG. 1

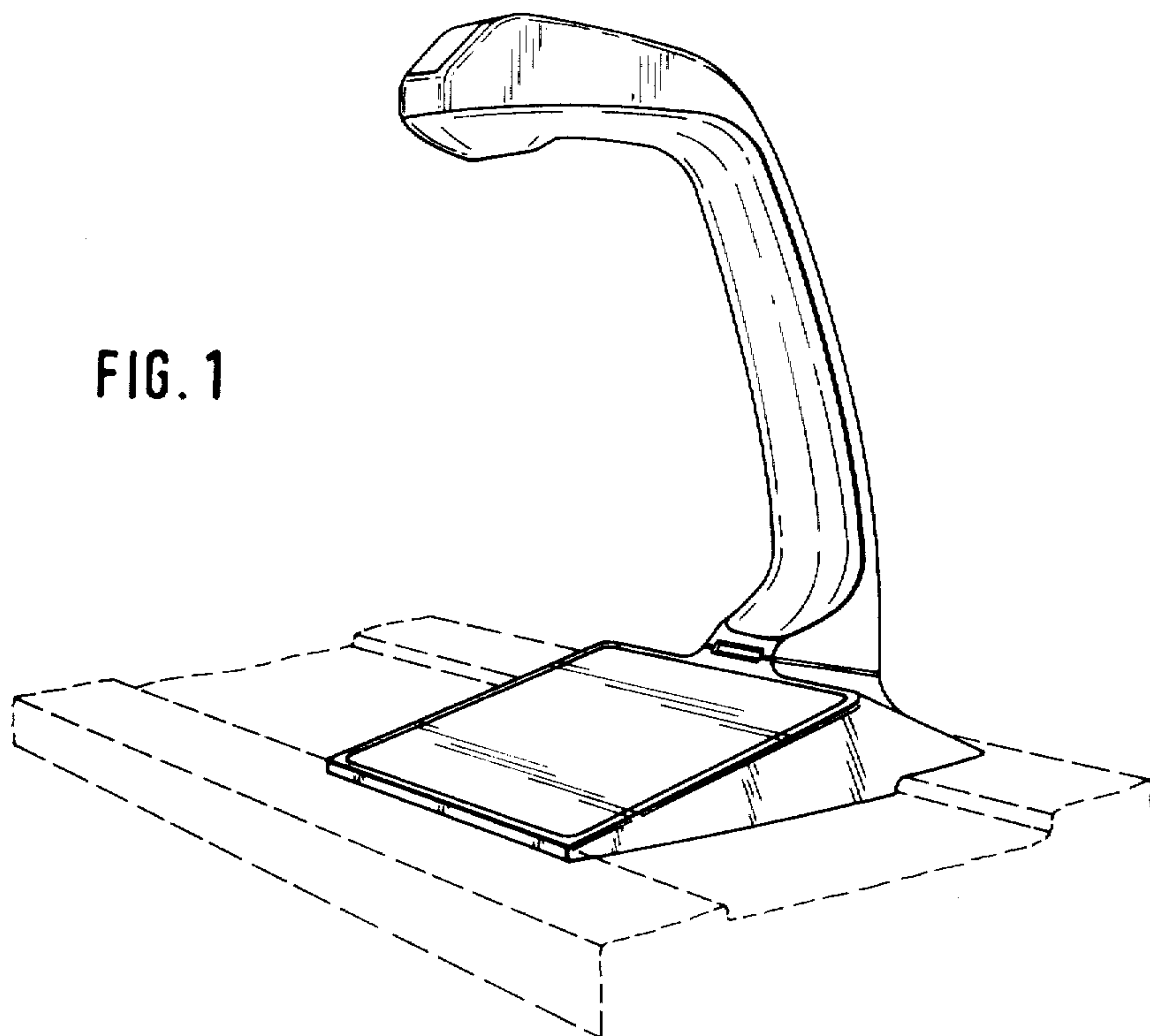


FIG. 2

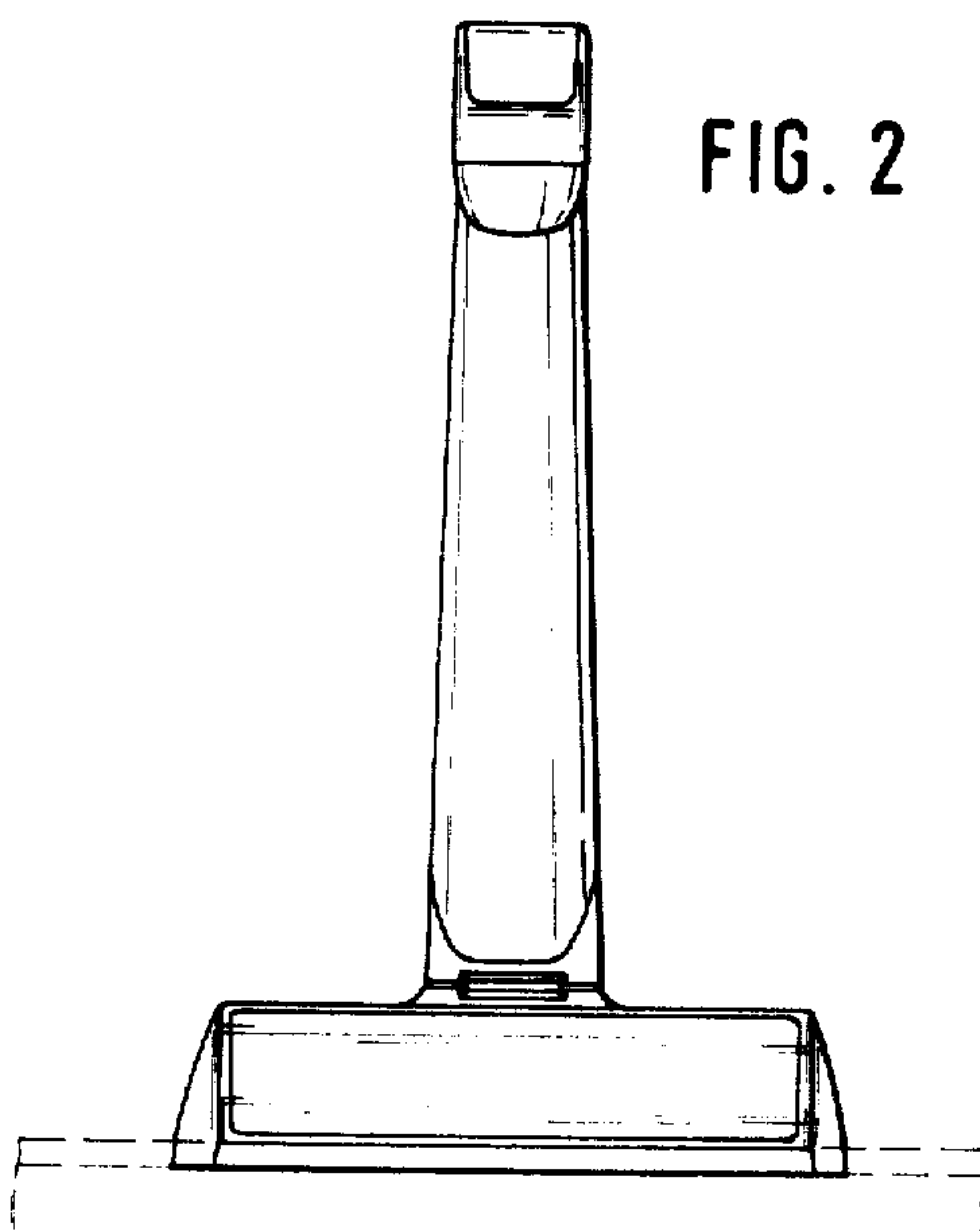


FIG. 3

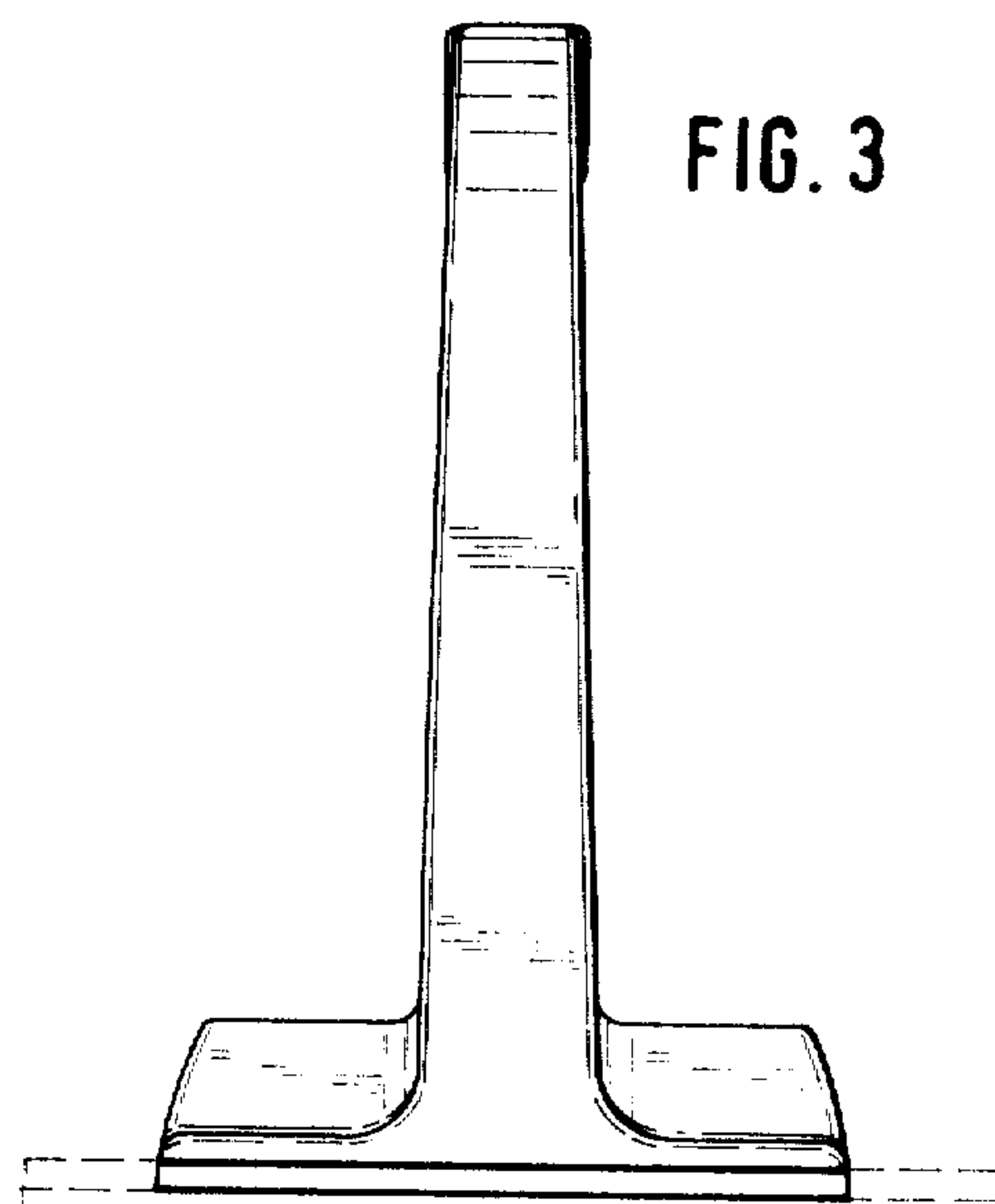


FIG. 4

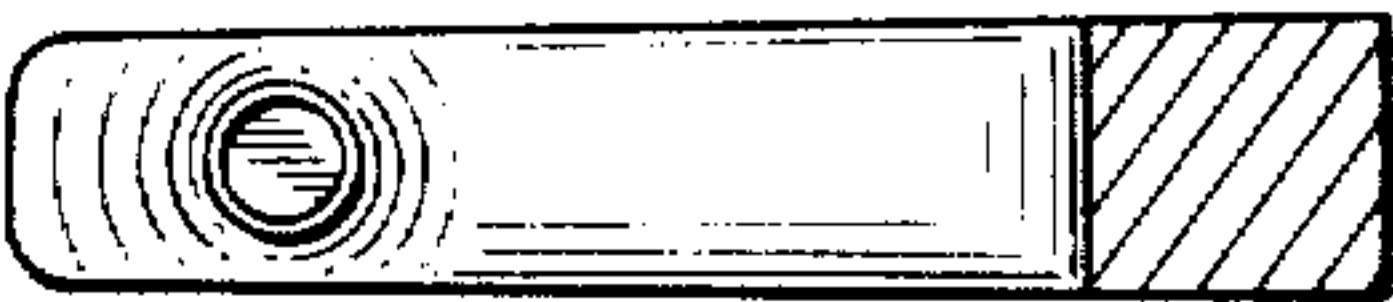
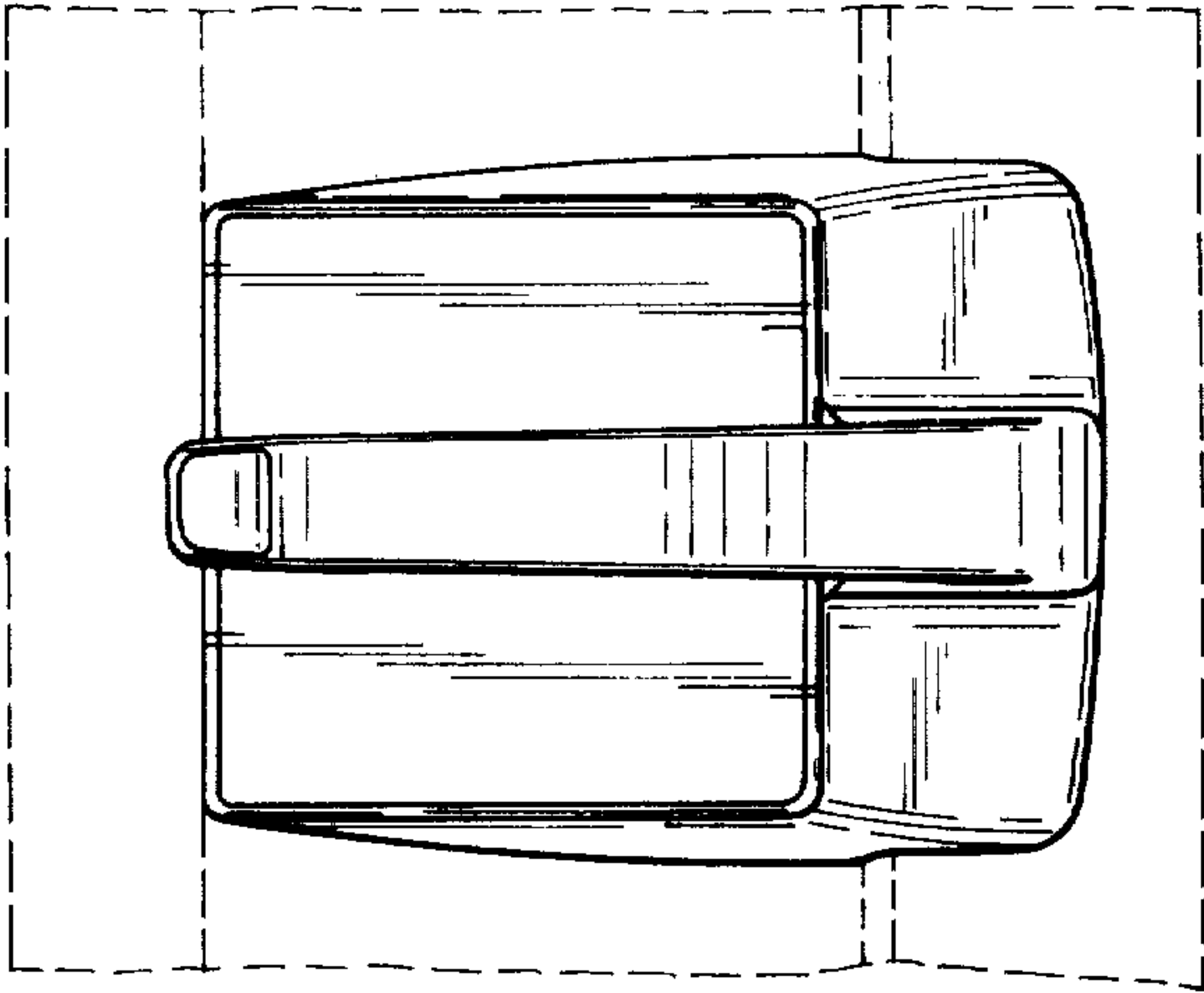


FIG. 6

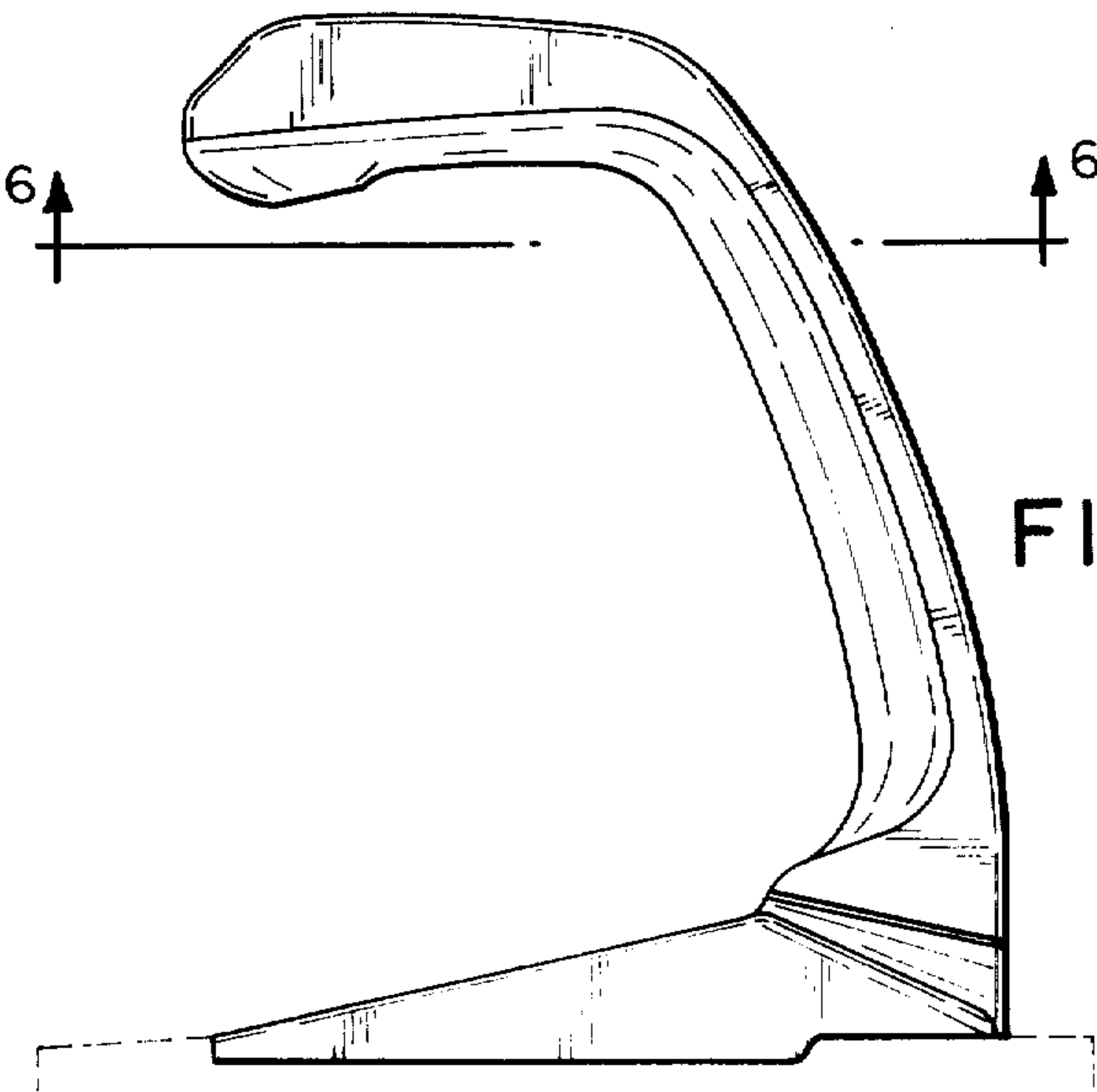


FIG. 5