

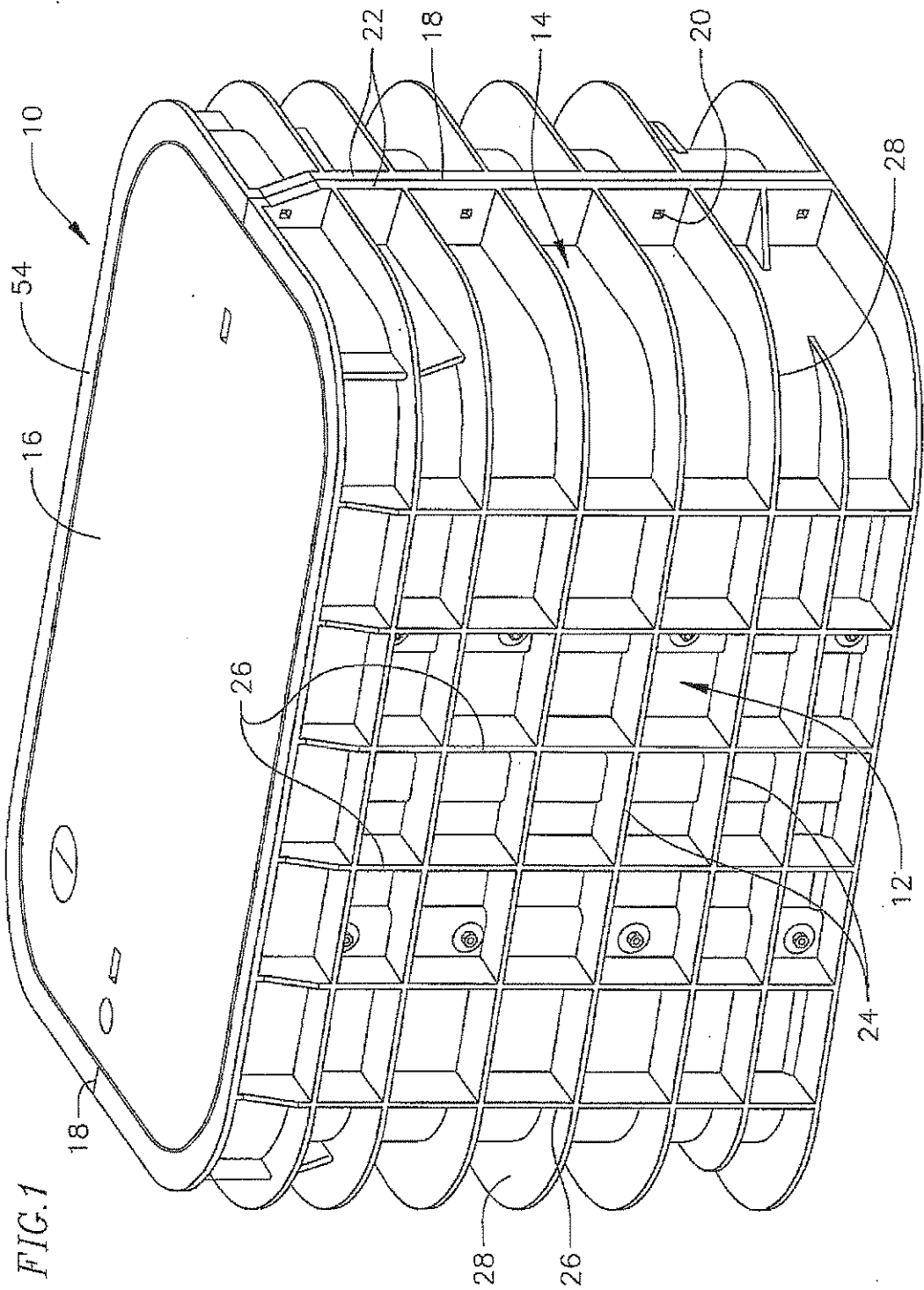
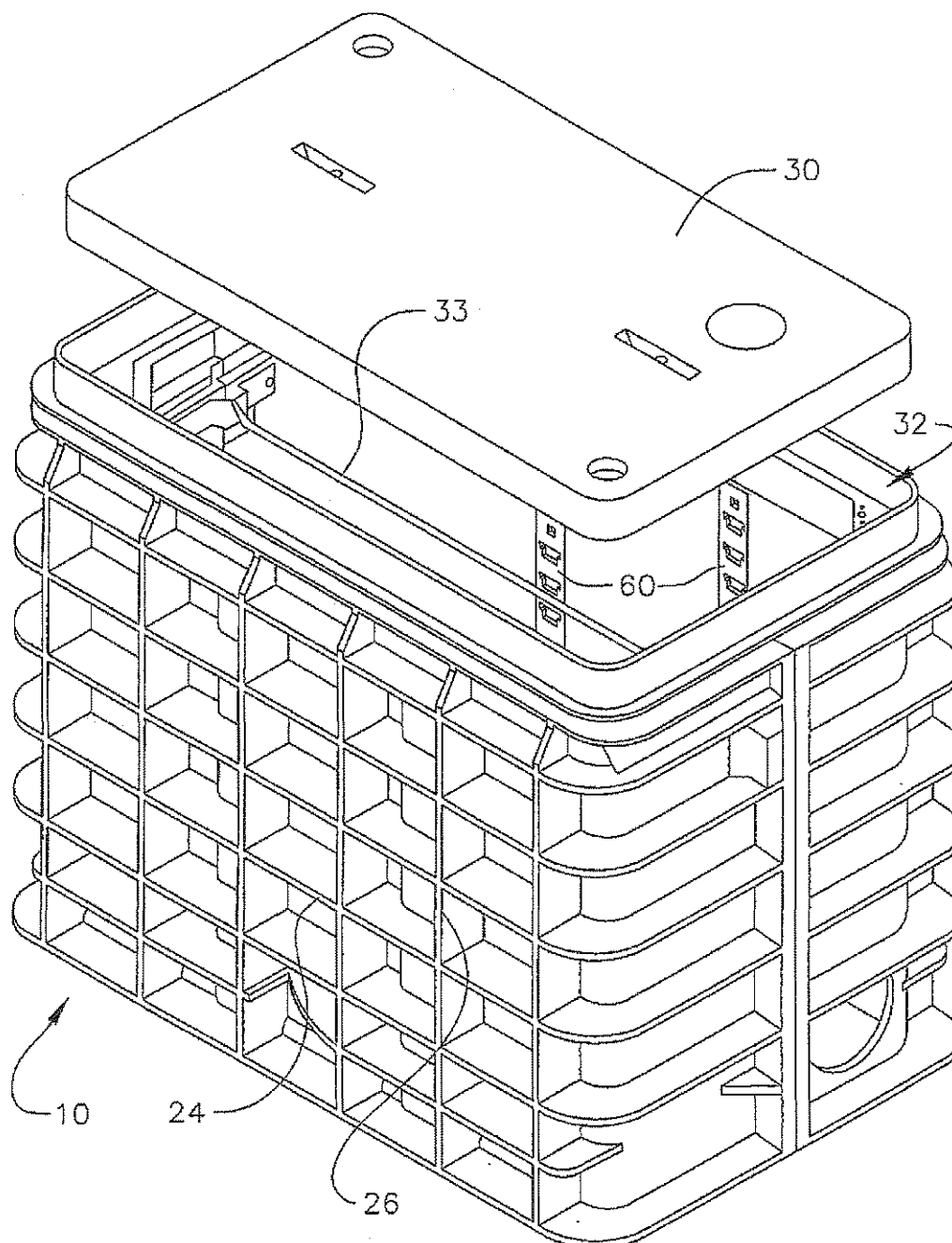


FIG. 1A



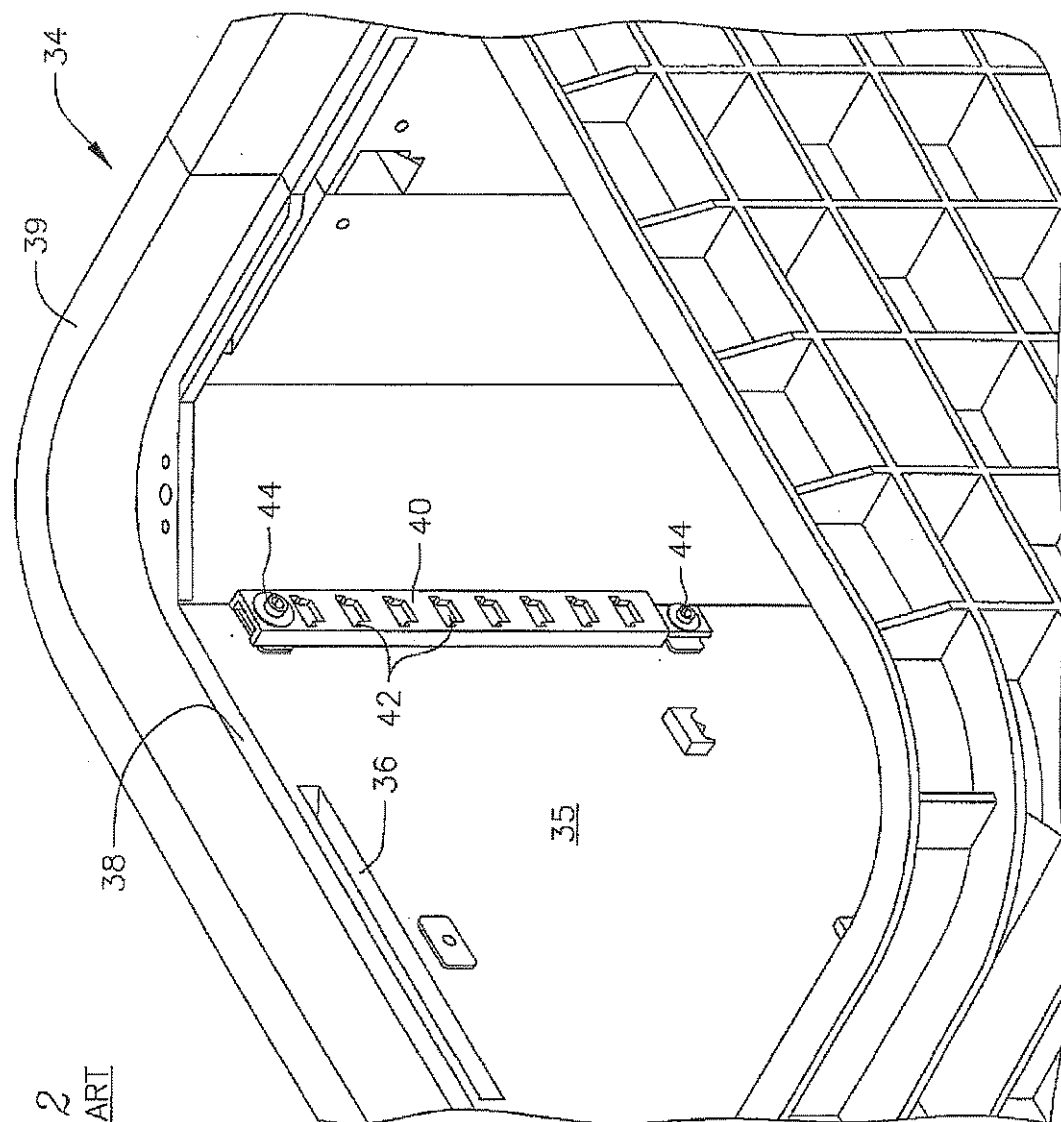
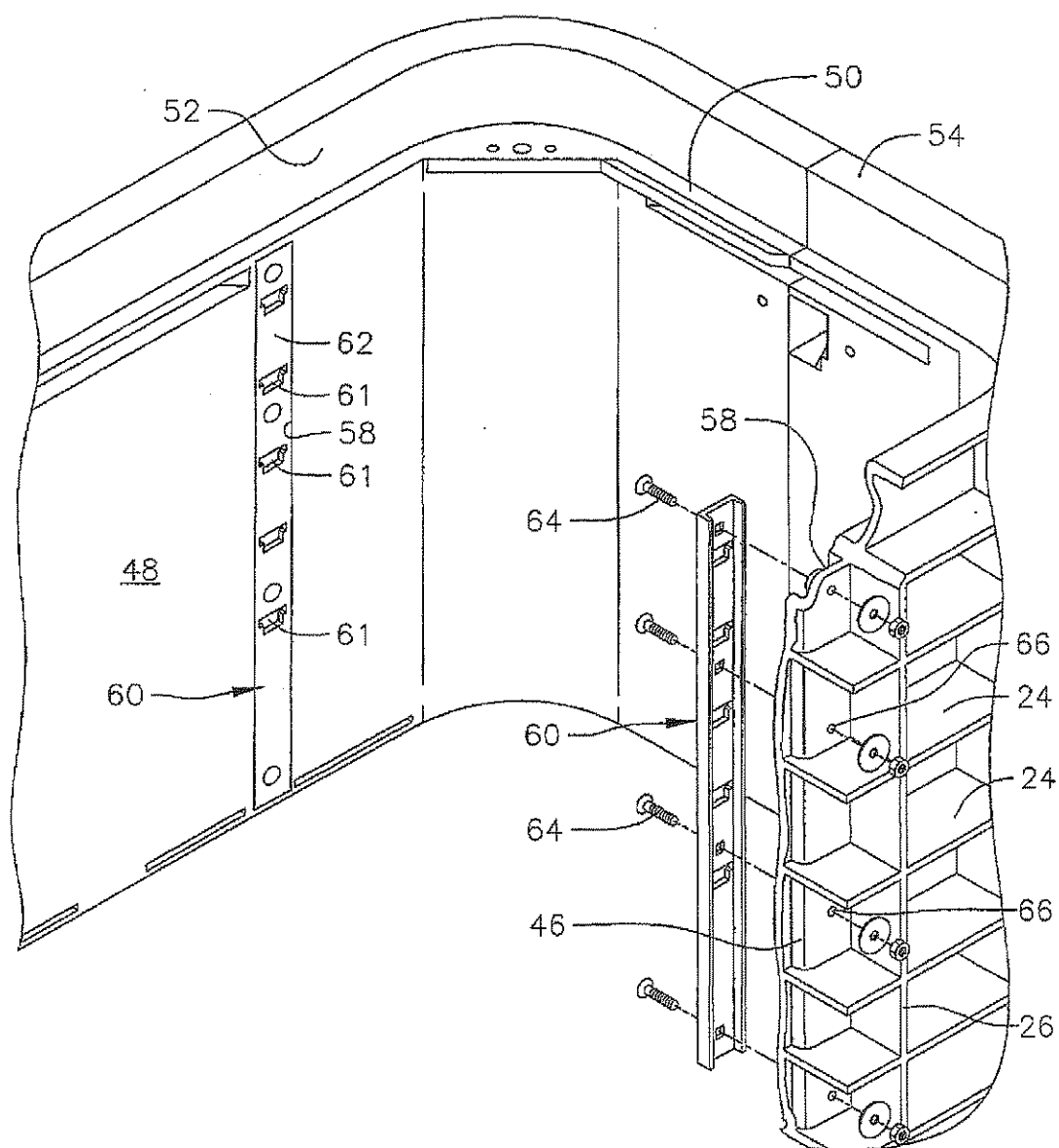


FIG. 3



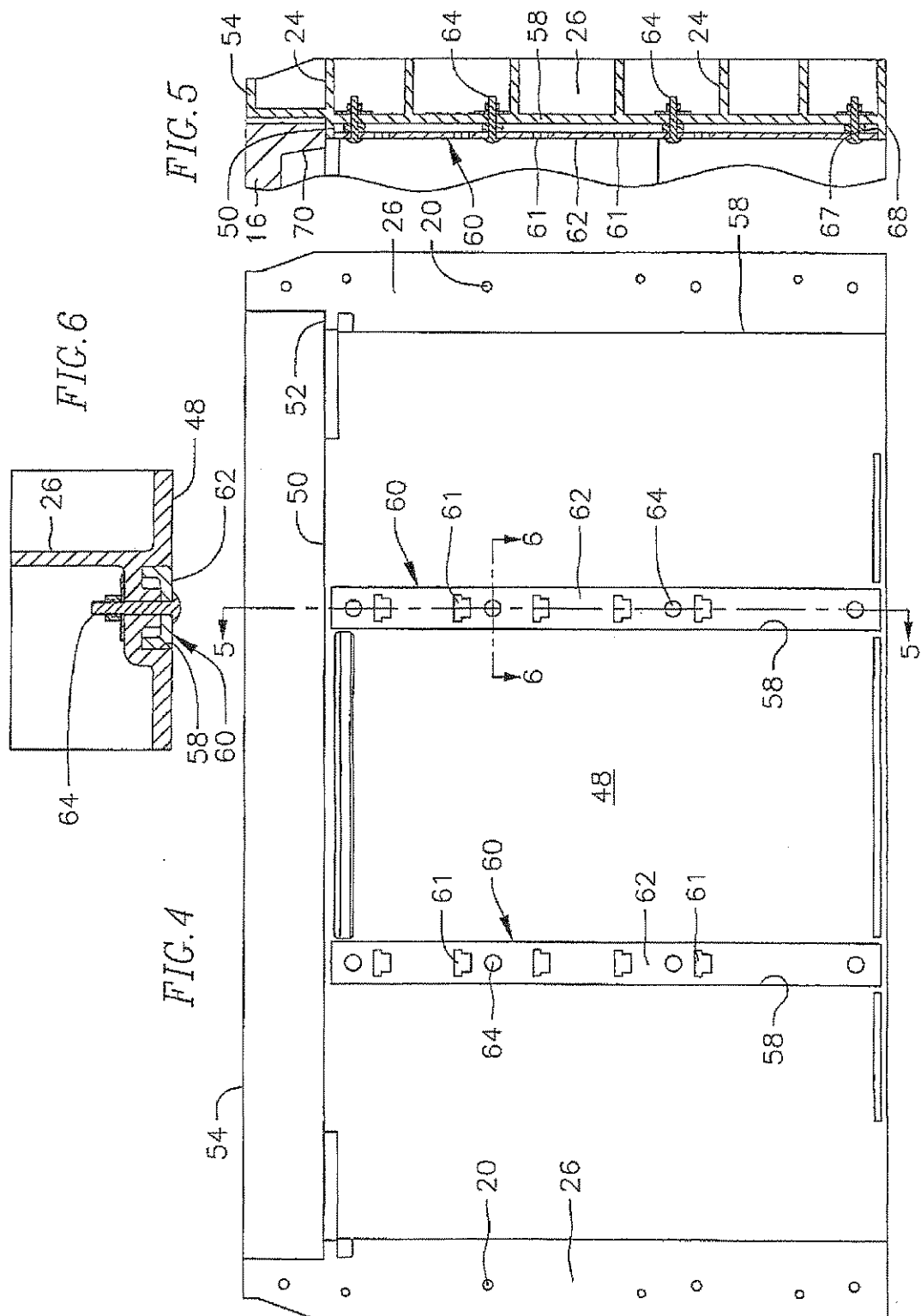


FIG. 7

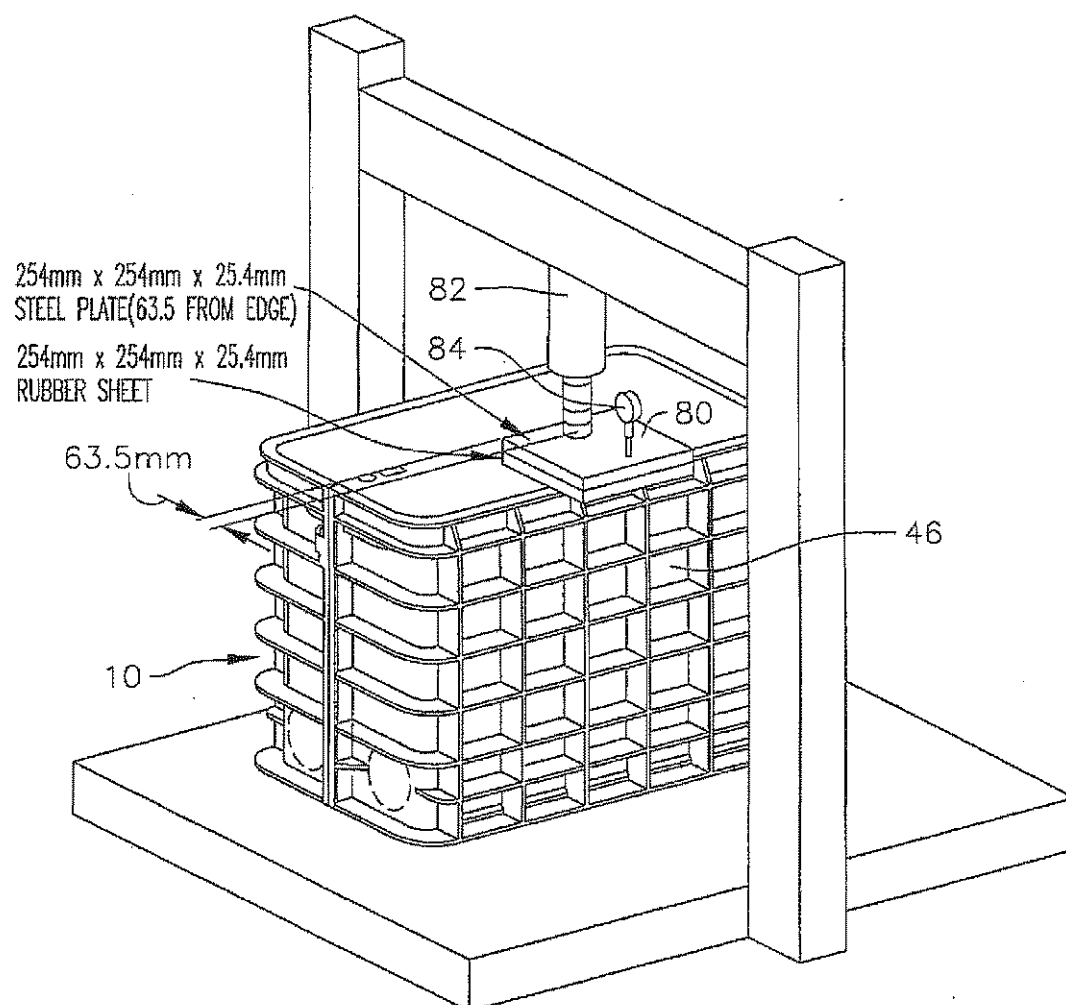
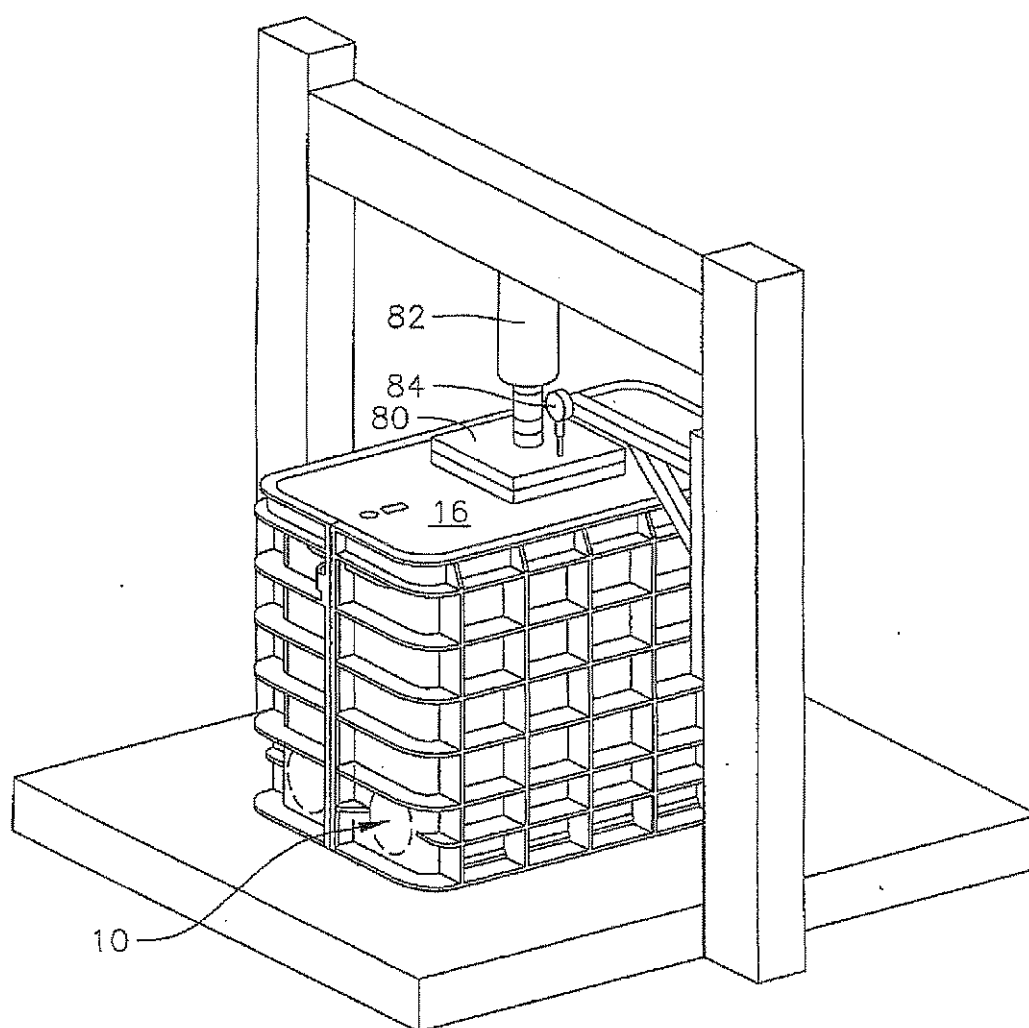
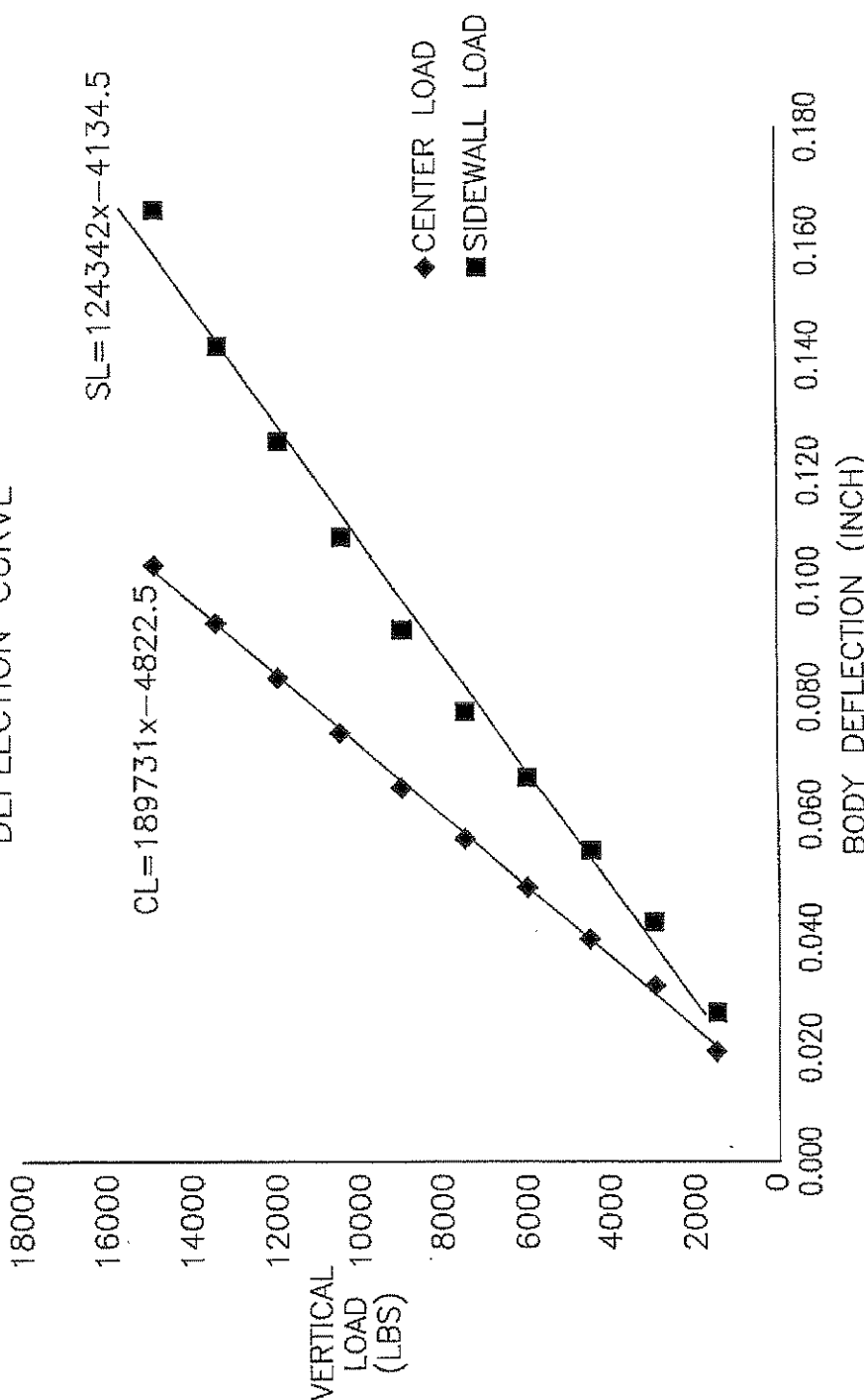


FIG. 8

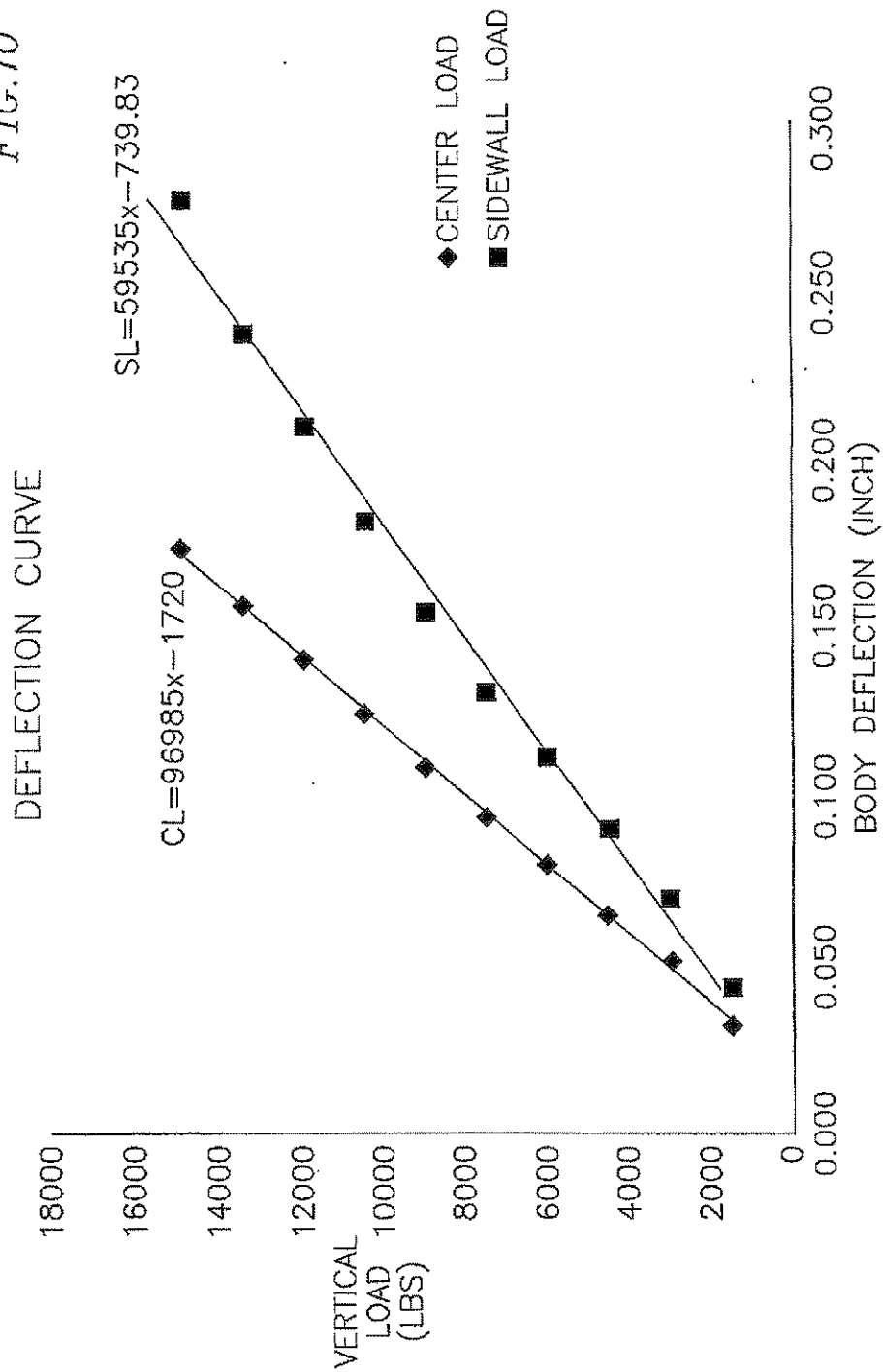


DEFLECTION CURVE



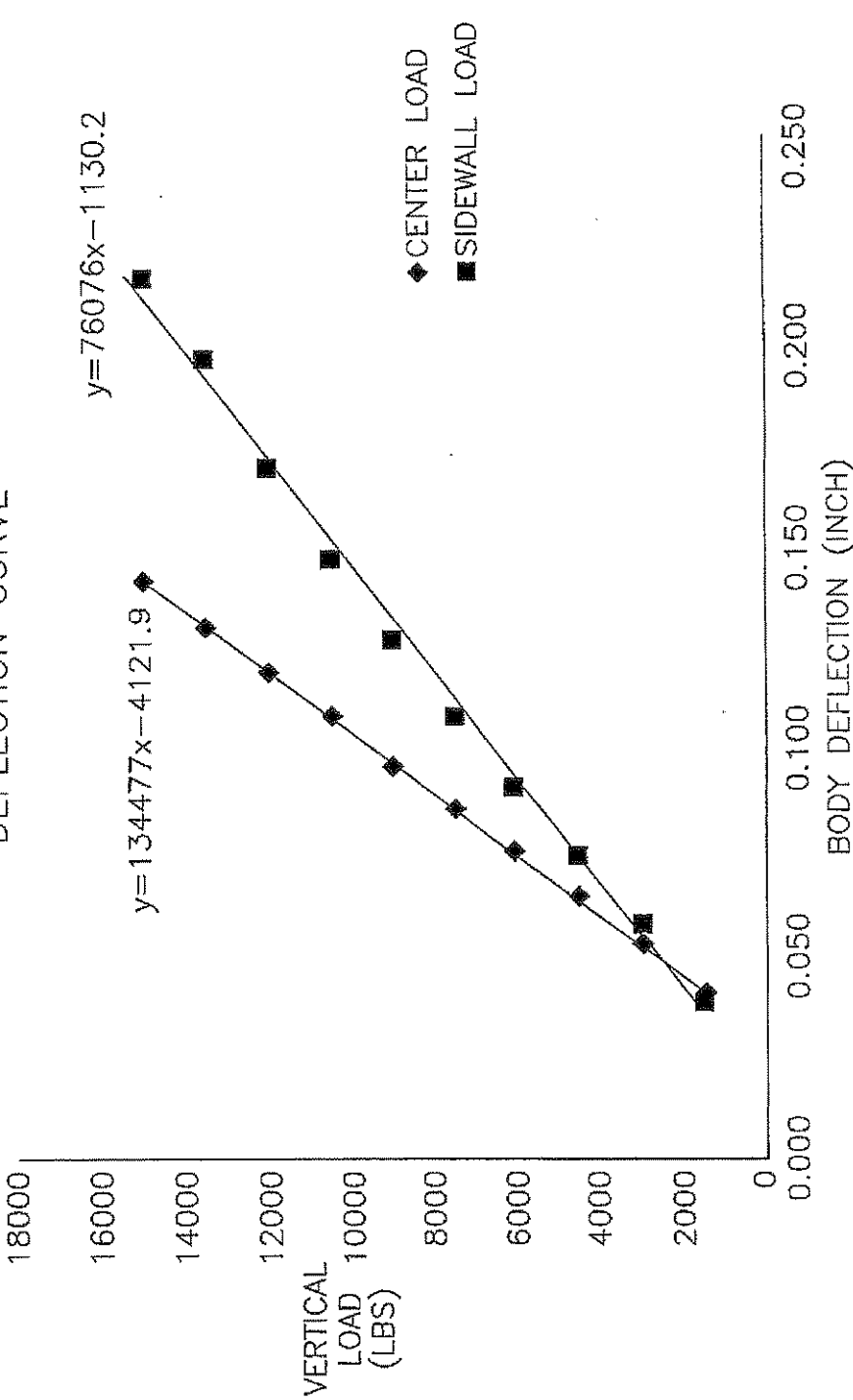
GRAPH SHOWS THE STIFFNESS (k) OF THE VAULT FOR TWO LOAD LOCATIONS.  
FOR THE CENTER LOAD  $k=189731$  LBS/IN AND FOR THE SIDEWALL LOAD  $k=124342$  LBS/IN.

FIG. 10



GRAPH SHOWS THE STIFFNESS (k) OF THE VAULT FOR TWO LOAD LOCATIONS.  
FOR THE CENTER LOAD  $k=96985$  LBS/IN AND FOR THE SIDEWALL LOAD  $k=59535$  LBS/IN.

DEFLECTION CURVE  
FIG.11



GRAPH SHOWS THE STIFFNESS (k) OF THE VAULT FOR TWO LOAD LOCATIONS.  
FOR THE CENTER LOAD  $k=13447$  LBS/IN AND FOR THE SIDEWALL LOAD  $k=76076$  LBS/IN.