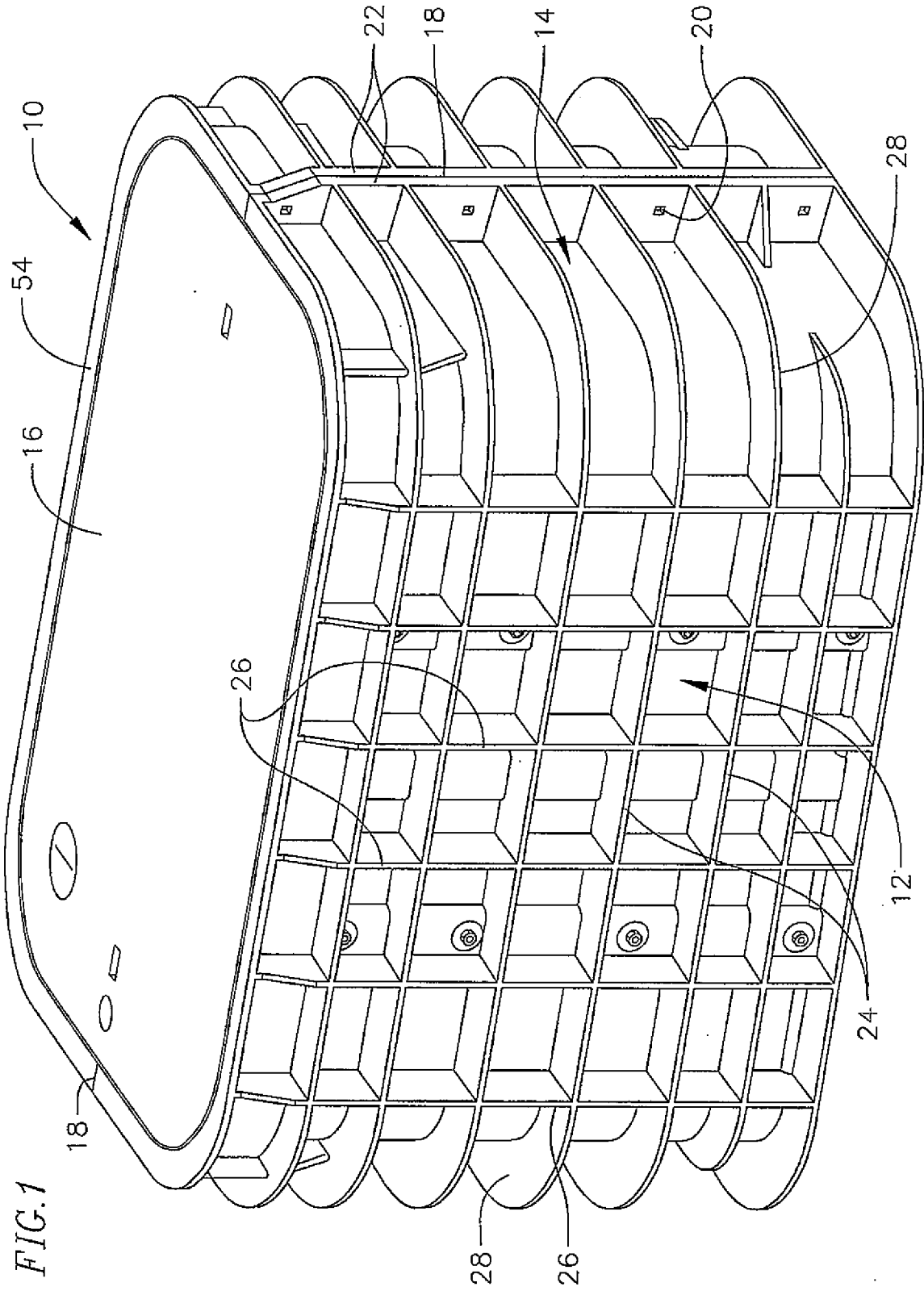
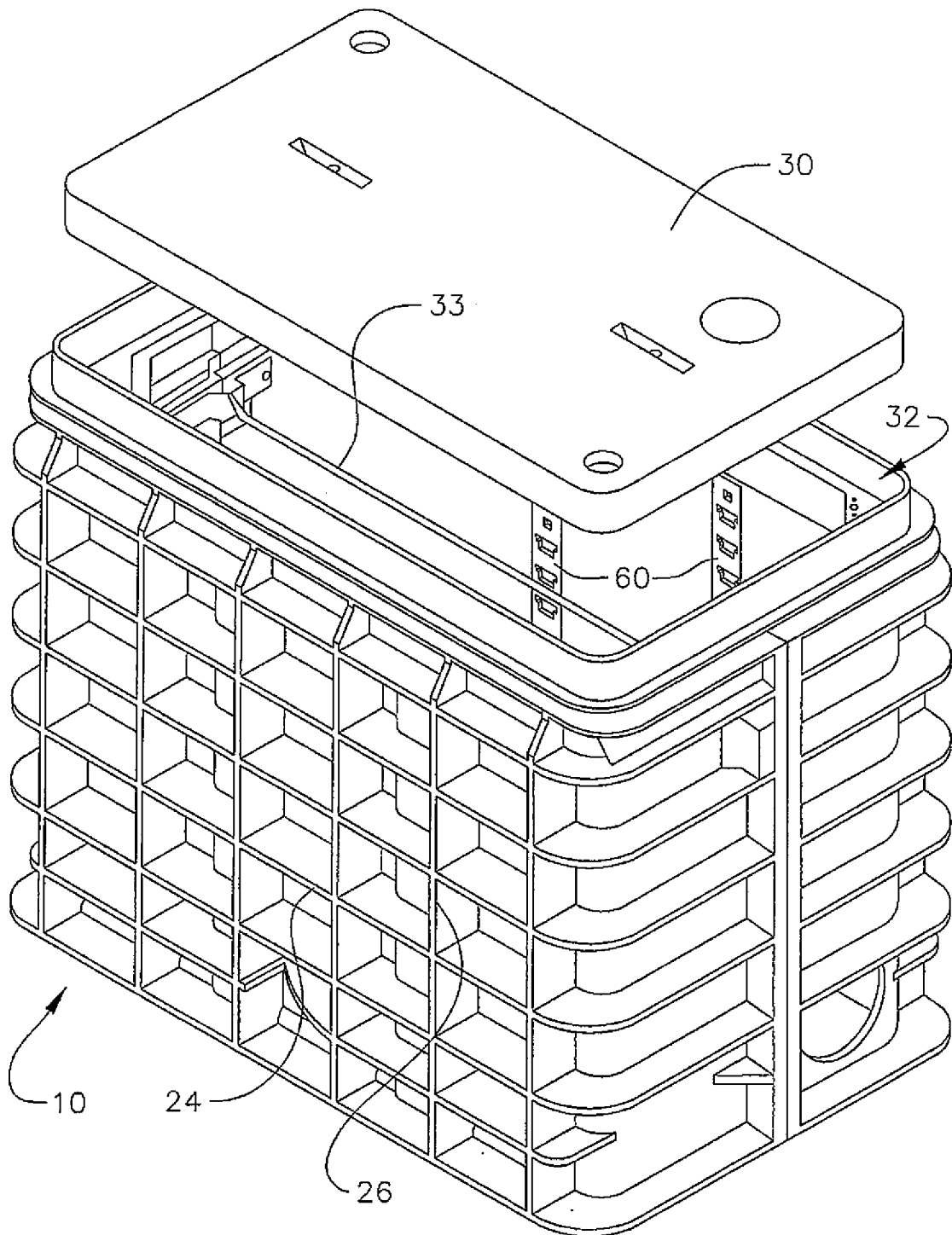




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FIG. 1A



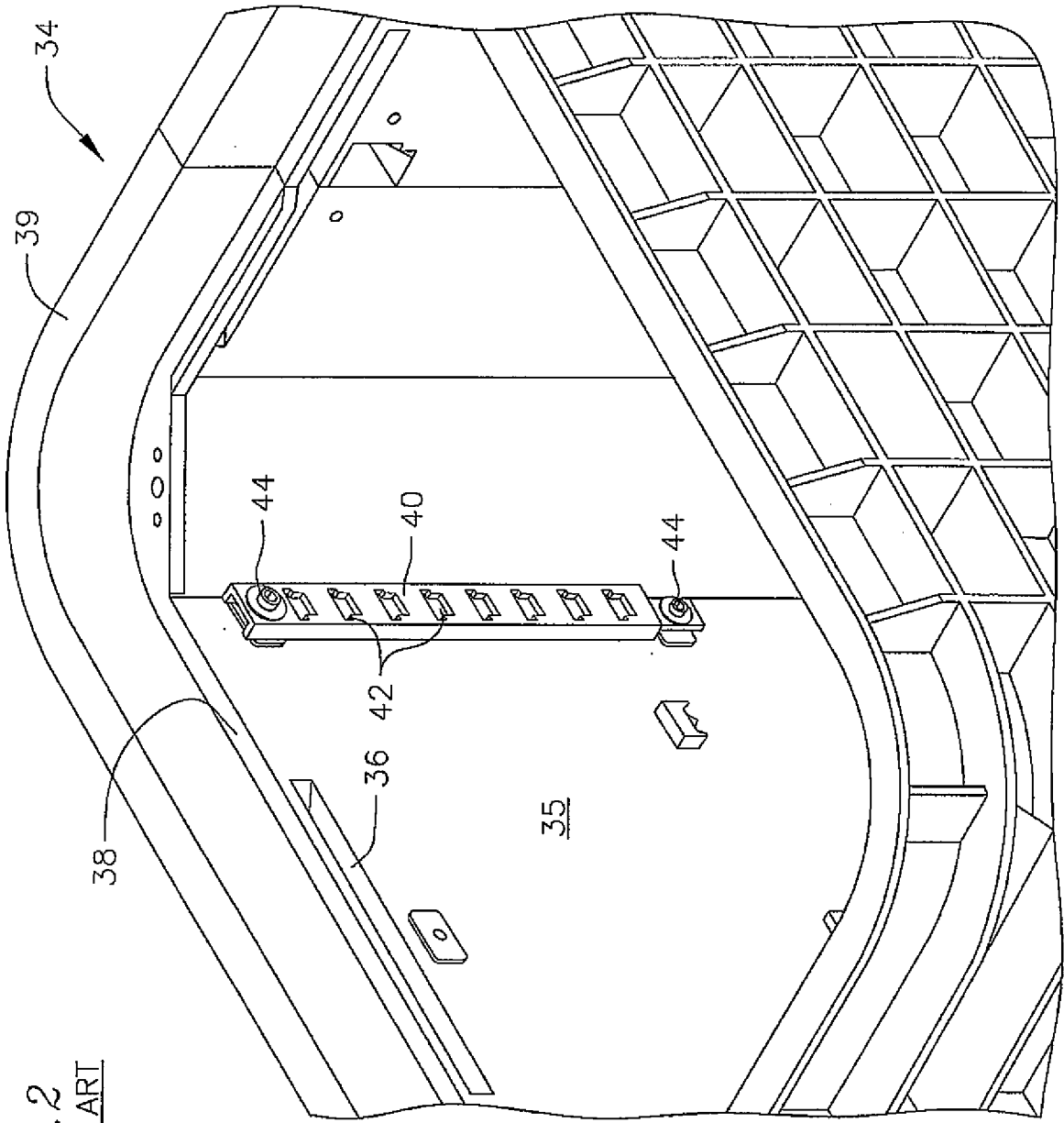
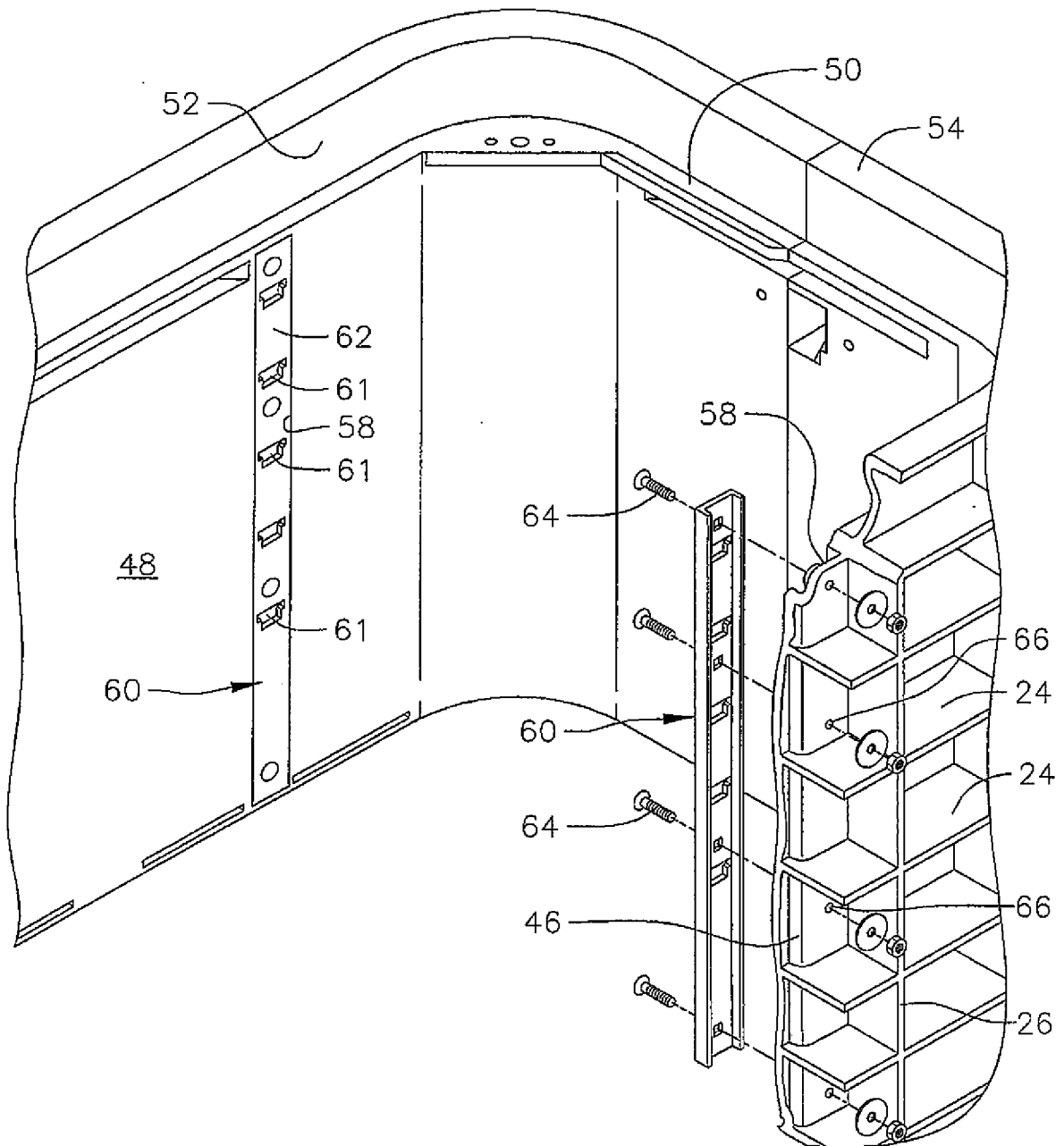


FIG. 3



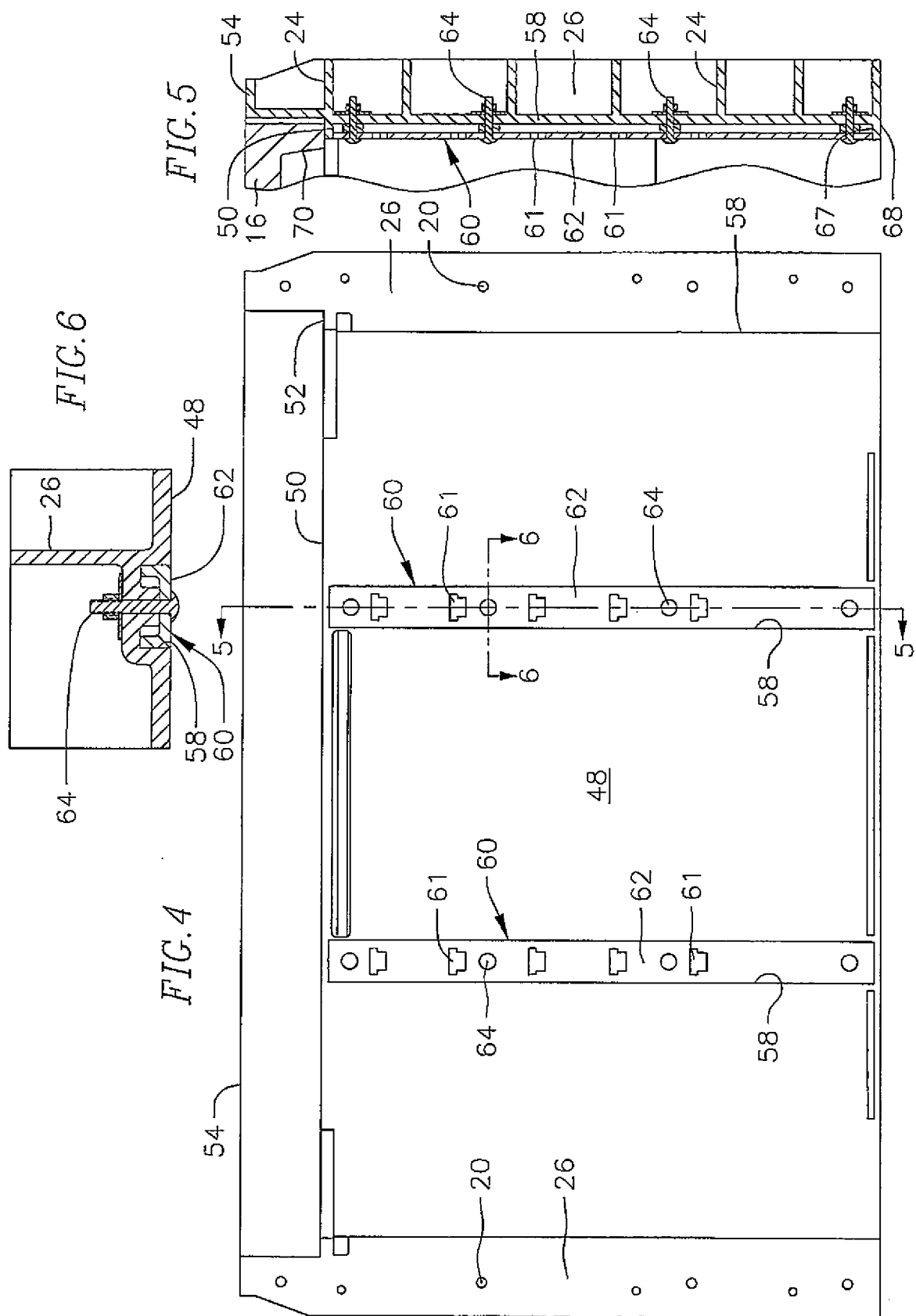


FIG. 7

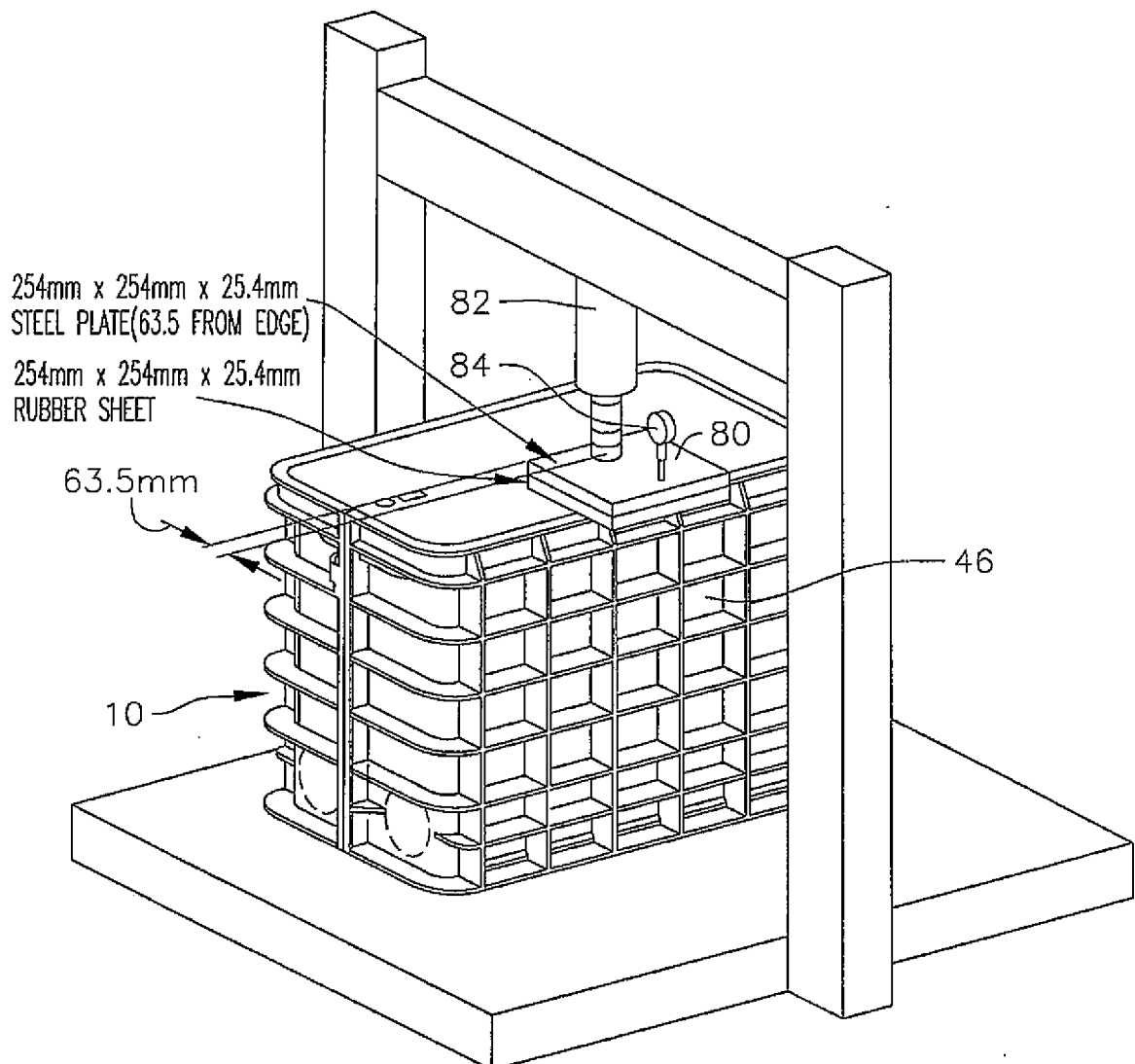
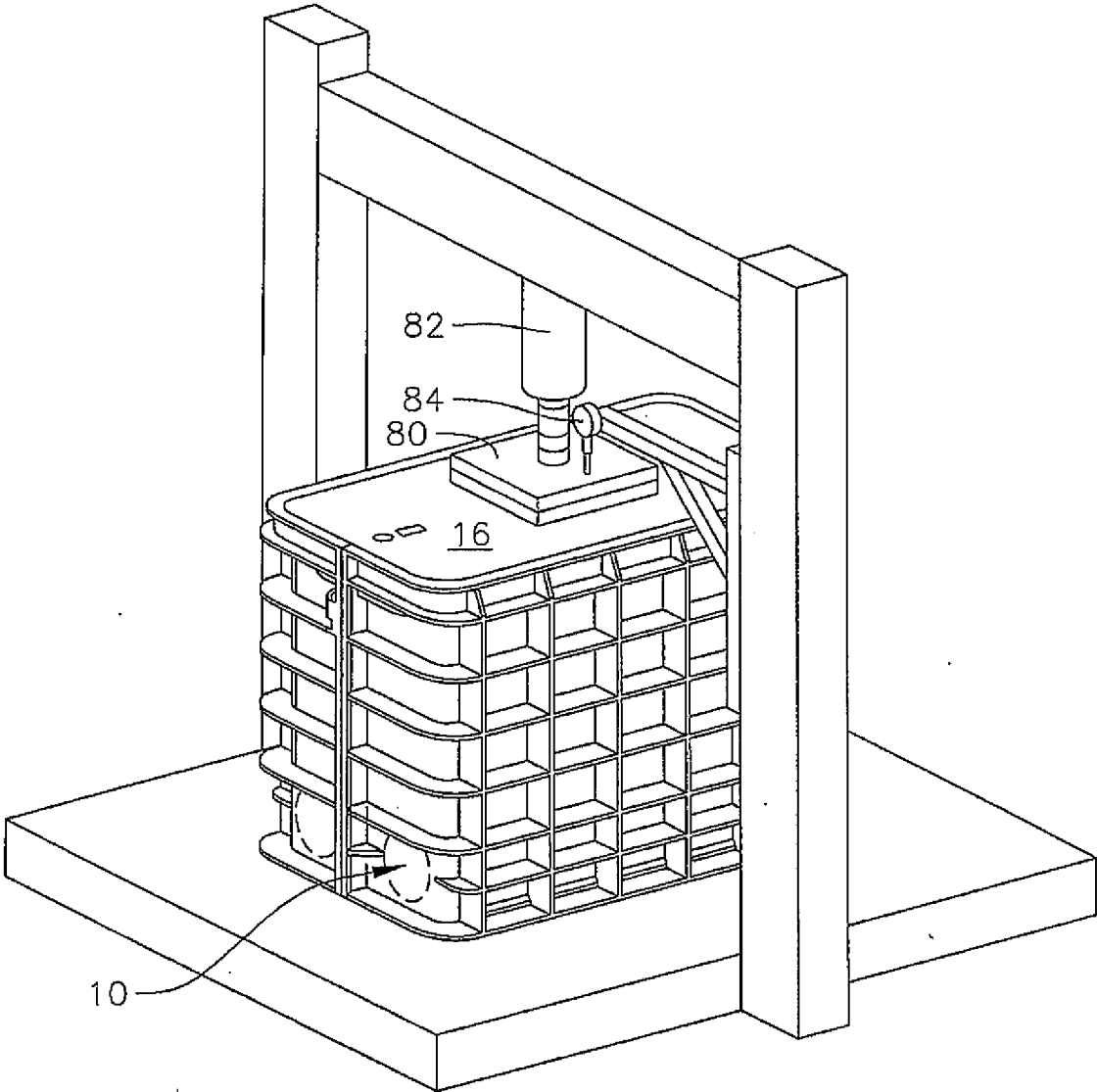
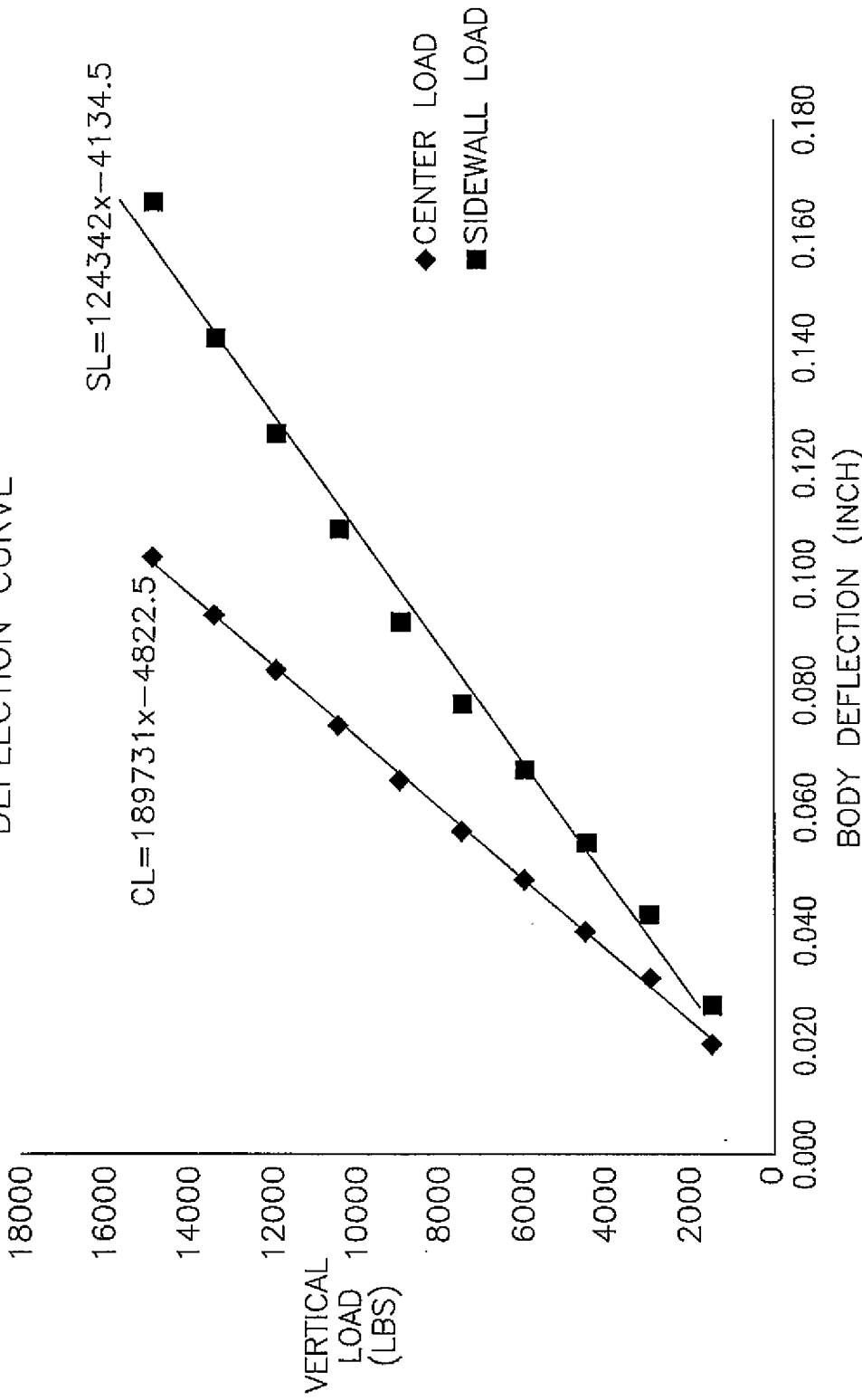


FIG. 8



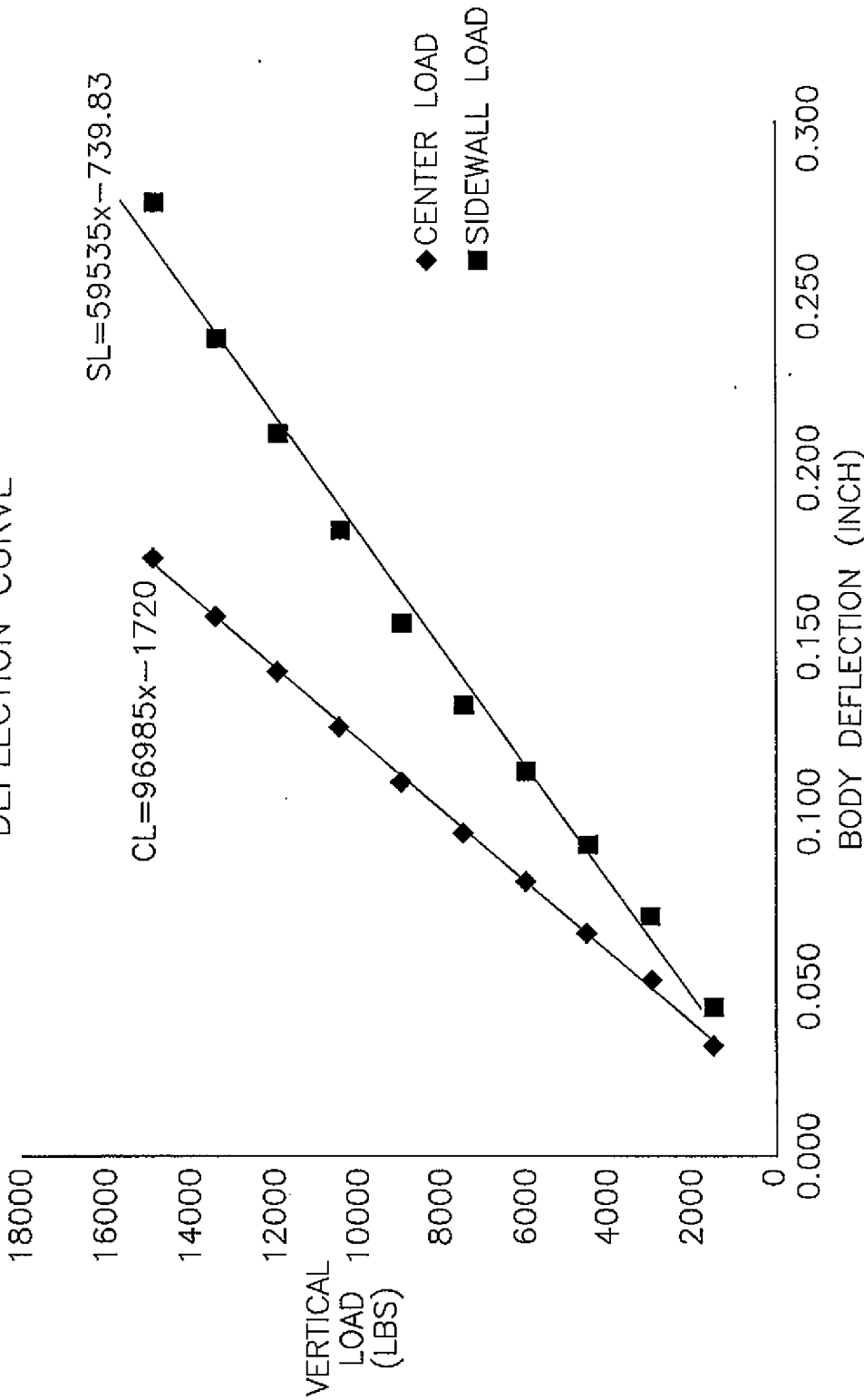
DEFLECTION CURVE

FIG.9



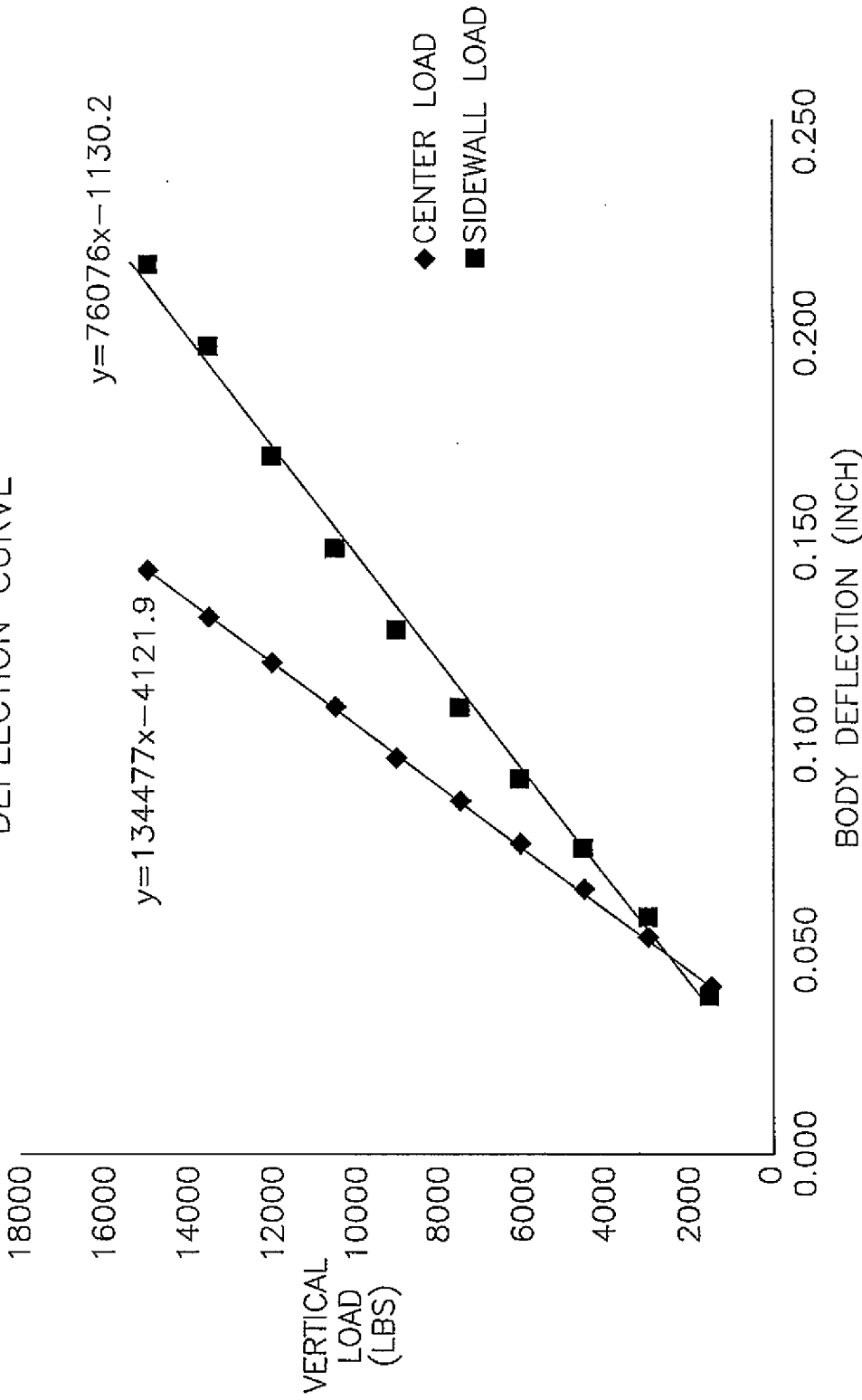
GRAPH SHOWS THE STIFFNESS (k) OF THE VAULT FOR TWO LOAD LOCATIONS.
FOR THE CENTER LOAD $k=189731$ LBS/IN AND FOR THE SIDEWALL LOAD $k=124342$ LBS/IN.

DEFLECTION CURVE
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.