

[72] Inventor **Herman D. Manas**  
 Roslyn Estates, N.Y.  
 [21] Appl. No. **837,158**  
 [22] Filed **June 27, 1969**  
 [45] Patented **June 29, 1971**  
 [73] Assignee **M.R.M. Company, Inc.**  
 Plainview, Long Island, N.Y.

Primary Examiner—Houston S. Bell, Jr.  
 Attorney—Kenyon and Kenyon, Reilly, Carr & Chapin

[54] **VALVE ARRANGEMENT FOR CONTAINER FILLING MACHINES**  
 8 Claims, 5 Drawing Figs.

[52] U.S. Cl. .... **141/45,**  
 141/141, 141/144  
 [51] Int. Cl. .... **B65b 31/06**  
 [50] Field of Search. .... **141/128,**  
 138—152, 45

[56] **References Cited**  
 UNITED STATES PATENTS  
 3,385,328 5/1968 Riesenberg ..... 141/128

**ABSTRACT:** Fluid filling machine with novel control valving movable from closed to open condition when a container is in position to receive the filling fluid, the valving remaining closed if no container is present and in such event permitting bypass return flow of the filling fluid to its source. The valving is operated by a control lever which is movable from an inoperative to operative position by the container that is to be filled. The lever, in turn, in its operative position is moved to valve-open position by engagement of the lever with a cam in the path of travel of the container to initiate filling thereof and is subsequently movable to close the valve at completion of fill, the latter movement being effected either by sensing means responsive to level of fill in the container or a further cam in the event of failure of the sensing means. In intermediate stages of the fill, the lever can be manipulated to a controlled extent by additional cam means to control rate of flow during fill if desired. The valving is applicable to rotary and linear filling machines. Valving arrangements suitable for gravity and pressure filling are disclosed.

