

[54] **POWER PURGED LIQUID SAMPLER**

[76] Inventor: **Ernst Singer**, P.O. Box 3491 Luget Dr., Vancouver, British Columbia, Canada

[22] Filed: **Feb. 3, 1972**

[21] Appl. No.: **223,152**

[52] U.S. Cl. **222/21, 137/392**

[51] Int. Cl. **B67d 5/30**

[58] Field of Search 141/4, 5, 7, 59, 37, 39, 47, 141/49, 54, 115, 116, 50; 137/386, 392; 222/17-21, 464

[56] **References Cited**

UNITED STATES PATENTS

3,313,326	4/1967	Pellerino	141/50 X
3,404,809	10/1968	Harris et al.	222/17
3,407,973	10/1968	Scott	222/464 X

Primary Examiner—Houston S. Bell, Jr.
Assistant Examiner—Charles Gorenstein
Attorney, Agent, or Firm—Fetherstonhaugh & Co.

[57] **ABSTRACT**

Apparatus for taking measured samples of liquids with or without solids therein. This apparatus includes a volume control tube extending into a closed metering chamber and terminating above the bottom of the latter. A vacuum-pressure power source is operatively connected to the chamber, and programmer means causes this source alternately to apply vacuum and pressure to the chamber. A level controller in the chamber above the lower end of the control tube is connected to operate the power source to shut off the vacuum and start the pressure when liquid in the chamber reaches a predetermined level. A valve controlled outlet at the bottom of the chamber allows the liquids to flow out of it after the pressure has forced the level of the liquid to the lower end of the control tube.

19 Claims, 9 Drawing Figures

