# DEFENSIVE PUBLICATION

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### METHOD AND APPARATUS FOR AUTOMATICALLY AND CONTINUOUSLY DETERMINING THE CIRCUMFERENCE AND PRESSURE DROP OF A TOBACCO SMOKE FILTER ROD PREFERABLY OF CELLULOSE ACETATE FIBER

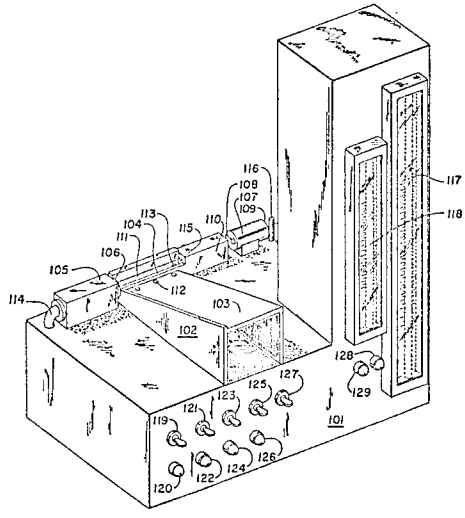
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**Continuation of application Ser. No. 399,032, Sept. 20, 1973, which is a continuation of application Ser. No. 290,295, Sept. 19, 1972, now abandoned. This application Aug. 22, 1974, Ser. No. 499,749**

**Int. Cl. G01b *13/08*; G01n *15/08***

**U.S. Cl. 73—37.5**

**4 Sheets Drawing. 13 Pages Specification**




Disclosed is a method and apparatus for automatically and continuously measuring the circumference and pressure drop of a tobacco smoke filter rod preferably composed of cellulose acetate fiber. In this invention a plurality of tobacco smoke filter rods of cellulose acetate fiber are stored in a storage location and subsequently automatically transported from the storage location to a pressure drop measuring zone wherein the pressure drop of the rod is automatically measured. The rod is then automatically transported to a circumference measuring zone wherein the circumference is automatically measured. The rod is then automatically transported away from the circumference measuring zone. The method and apparatus of this invention advantageously reduces the time necessary to conduct similar measurements using conventional pressure drop and circumference measuring equipment that is not automatic and continuous in character.

Sept. 2, 1975 R. G. WRYE T938,010

# METHOD AND APPARATUS FOR AUTOMATICALLY AND CONTINUOUSLY DETERMINING THE CIRCUMFERENCE AND PRESSURE DROP OF A TOBACCO SMOKE FILTER ROD PREFERABLY COMPOSED OF CELLULOSE ACETATE FIBER

Original Filed Sept. 19, 1972 4 Sheets-Sheet 1

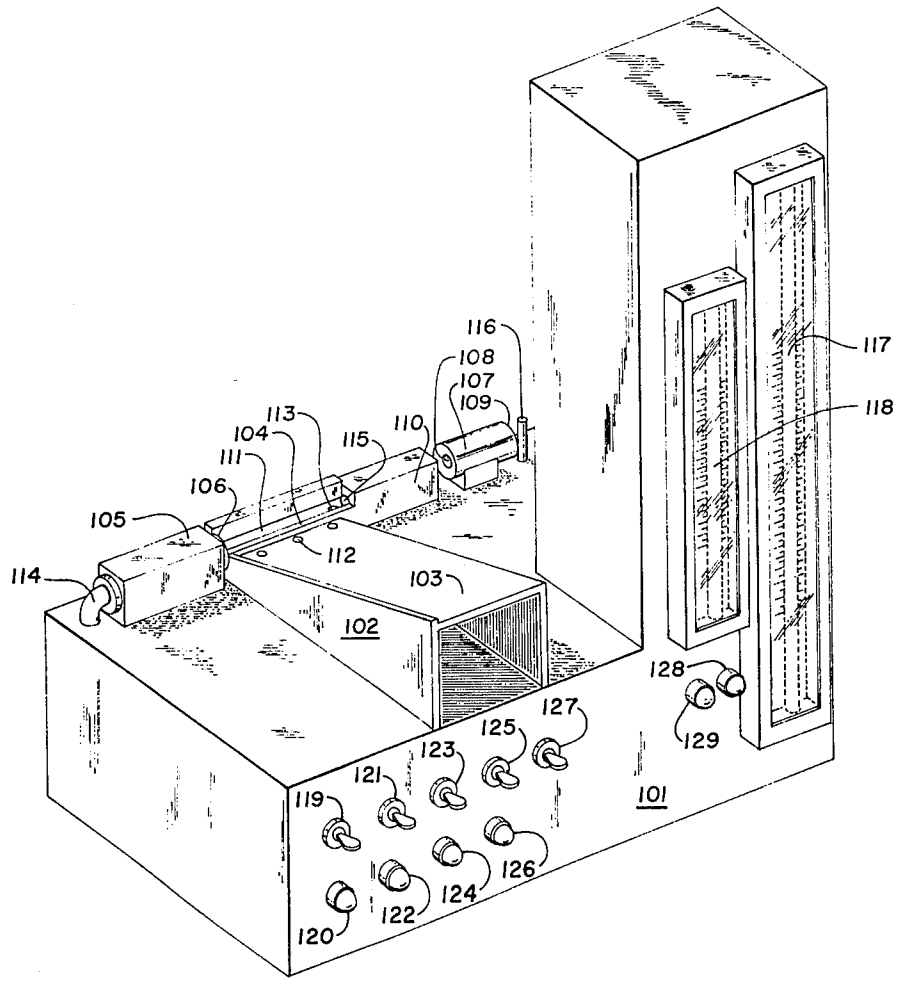



Fig. 1

METHOD AND APPARATUS FOR AUTOMATICALLY AND CONTINUOUSLY DETERMINING THE CIRCUMFERENCE AND PRESSURE DROP OF A TOBACCO SMOKE FILTER ROD PREFERABLY COMPOSED OF CELLULOSE ACETATE FIBER

Original Filed Sept. 19, 1972 4 Sheets-Sheet 2

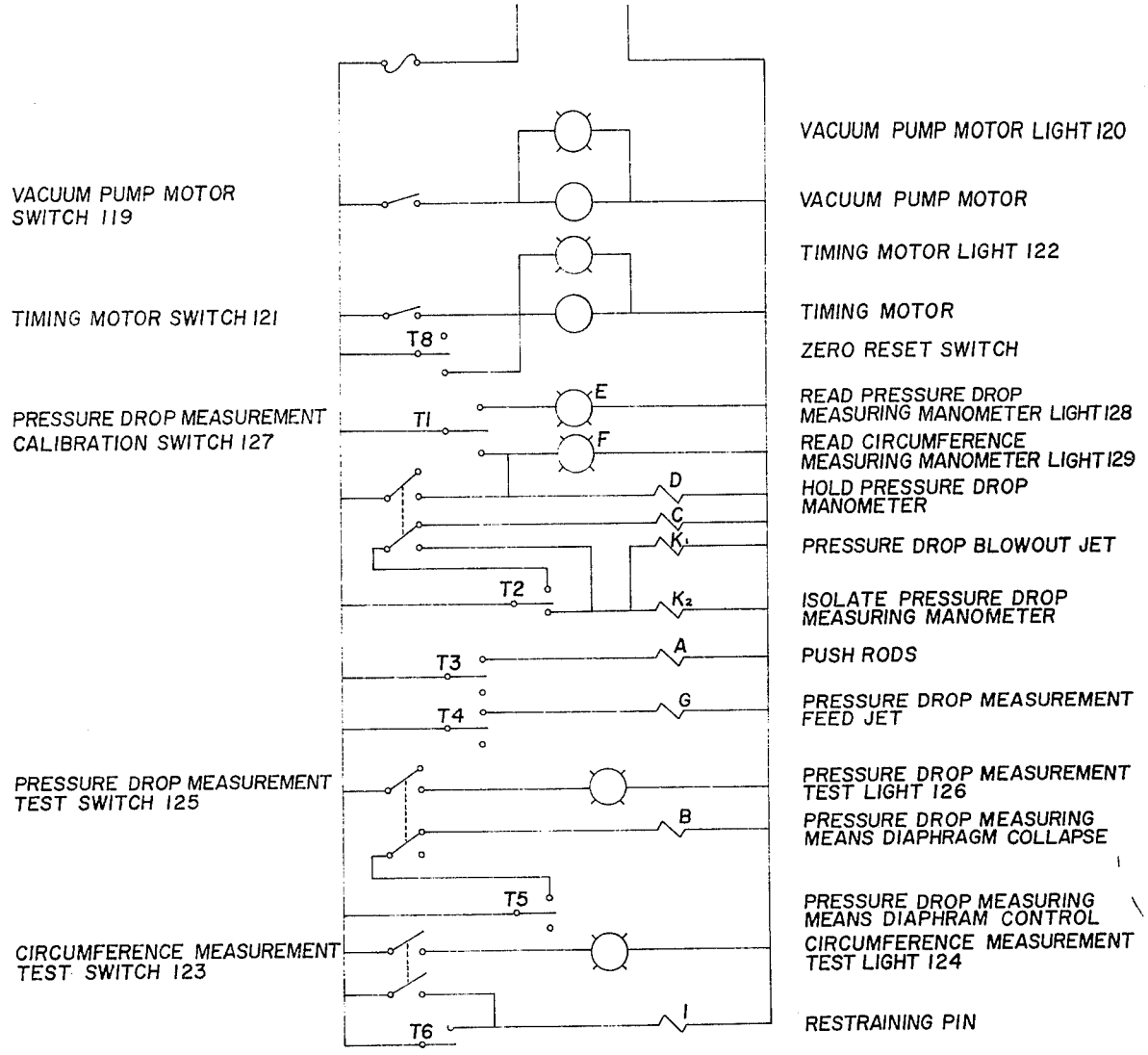



Fig. 2

METHOD AND APPARATUS FOR AUTOMATICALLY AND CONTINUOUSLY DETERMINING THE CIRCUMFERENCE AND PRESSURE DROP OF A TOBACCO SMOKE FILTER ROD PREFERABLY COMPOSED OF CELLULOSE ACETATE FIBER

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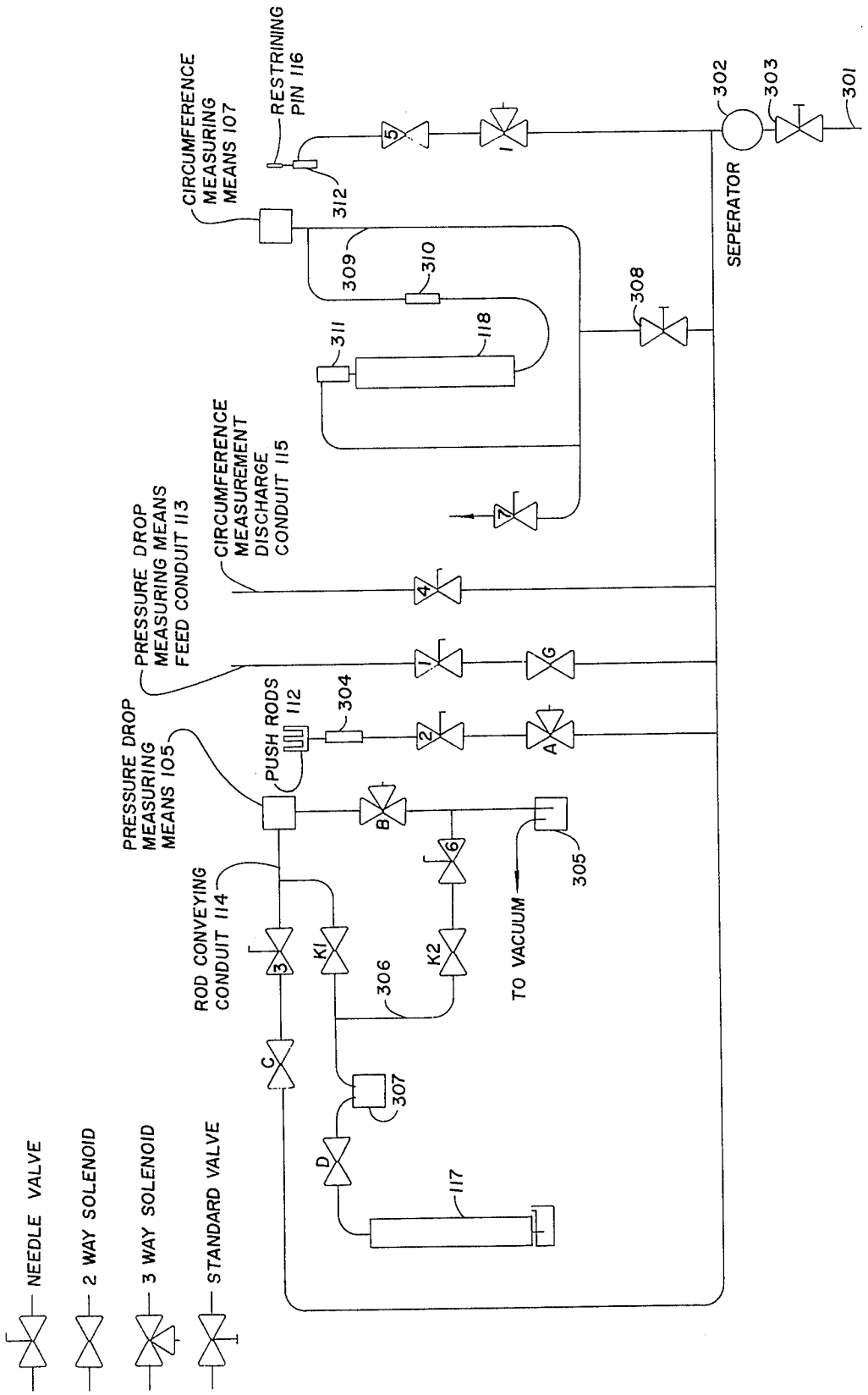



Fig. 3

METHOD AND APPARATUS FOR AUTOMATICALLY AND CONTINUOUSLY DETERMINING THE CIRCUMFERENCE AND PRESSURE DROP OF A TOBACCO SMOKE FILTER ROD PREFERABLY COMPOSED OF CELLULOSE ACETATE FIBER

Original Filed Sept. 19, 1972 4 Sheets-Sheet 4

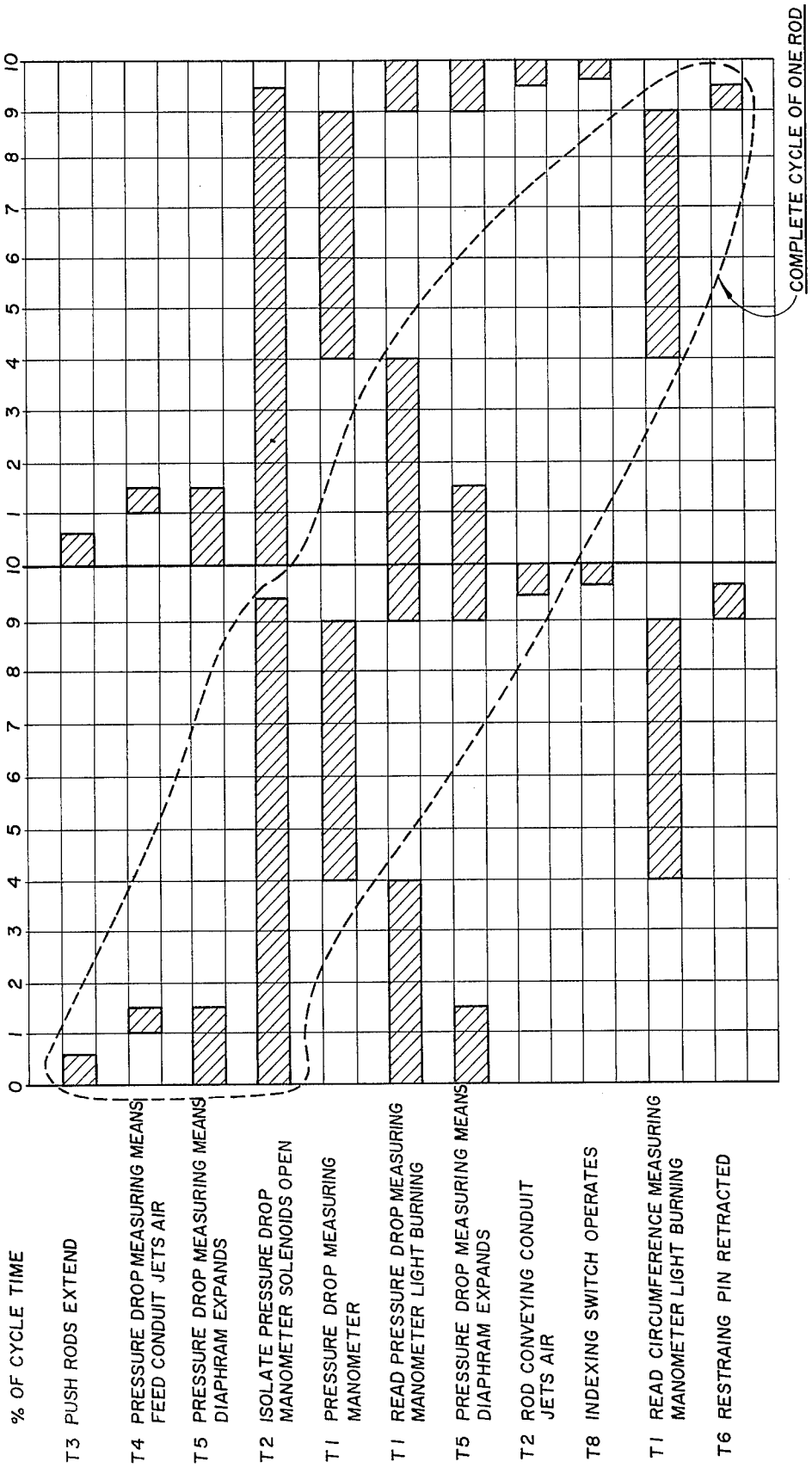



Fig. 4