



US006180006B1

(12) **United States Patent**
Whiteman

(10) **Patent No.:** **US 6,180,006 B1**
(45) **Date of Patent:** **Jan. 30, 2001**

(54) **CLARIFICATION AND SOLID WASTE CONTAINMENT SYSTEM AND PROCESS**

(76) **Inventor:** **George R. Whiteman**, 3050 Boles Farm La., Duluth, GA (US) 30136

(*) **Notice:** Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

- 1,029,329 * 6/1912 Walsh et al. .
- 1,070,773 * 8/1913 Callahan .
- 1,245,932 * 11/1917 Larson .
- 2,101,978 * 12/1937 Boosey .
- 2,680,251 * 6/1954 Cotterman .
- 3,516,541 * 6/1970 Hardingham .
- 6,093,314 * 7/2000 Wilson et al. .

* cited by examiner

(21) **Appl. No.:** **09/249,034**

(22) **Filed:** **Feb. 12, 1999**

Related U.S. Application Data

(60) Provisional application No. 60/074,672, filed on Feb. 13, 1998.

(51) **Int. Cl.** ⁷ **B01D 21/00; C02F 9/00**

(52) **U.S. Cl.** **210/256; 210/261; 210/474; 210/514**

(58) **Field of Search** 210/163-165, 210/252, 261, 459, 460, 532.1, 256, 474, 477, 514; 4/291, 288, 290, DIG. 19

(56) **References Cited**

U.S. PATENT DOCUMENTS

628,146 * 7/1899 Hungerbuehler .

Primary Examiner—David A. Simmons

Assistant Examiner—Fred Prince

(74) *Attorney, Agent, or Firm*—Barnes & Thornburg; Alice O. Martin

(57) **ABSTRACT**

A new apparatus and method for the removal of waste material including solid wastes from a fluid is provided. The apparatus and method employ a unique combination of processes that result in extended periods of use between cleanings of the apparatus.

2 Claims, 2 Drawing Sheets

