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**Hammond Bravo**

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(54) **ARTIFICIAL SIMULTANEOUS PRODUCTION AND MAINTENANCE SYSTEM ASSISTED BY MECHANICAL PUMPING WITH FLEXIBLE TUBING FOR FLUID EXTRACTION**

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See application file for complete search history.

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(57) **ABSTRACT**

A pumping system for the simultaneous extraction of fluids and maintenance of a well. The pumping system includes a hollow production tubing secured at the surface and extending down into a well, and a flexible hollow tubing also secured to a surface structure and extending downward into the production tubing. A pump assembly connected to a lower end of the flexible tubing includes an upper section through which well maintenance fluids may be pumped, and a lower section that includes a mechanical pump. An impermeable barrier separates the upper and lower sections of the pump assembly. Holes formed on the upper and lower sections of the pumping assembly allow for the simultaneous maintenance of well and extraction of fluids.

**3 Claims, 6 Drawing Sheets**

