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Fehr et al.

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(54) **METHOD AND APPARATUS FOR WELLBORE FLUID TREATMENT**

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(73) Assignee: **Packers Plus Energy Services Inc.**, Calgary (CA)

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Related U.S. Application Data

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(51) **Int. Cl.**

E21B 43/14 (2006.01)

E21B 33/124 (2006.01)

E21B 34/14 (2006.01)

(52) **U.S. Cl.** **166/387**; 166/191; 166/194; 166/306; 166/318

(58) **Field of Classification Search** 166/387, 166/386, 373, 374, 142, 146, 147, 184, 185, 166/194, 318, 269, 126, 127, 131, 191, 305.1, 166/306, 313; 175/237, 317
See application file for complete search history.

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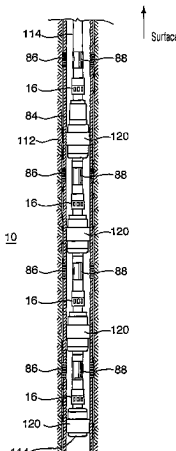
Primary Examiner—Kenneth Thompson

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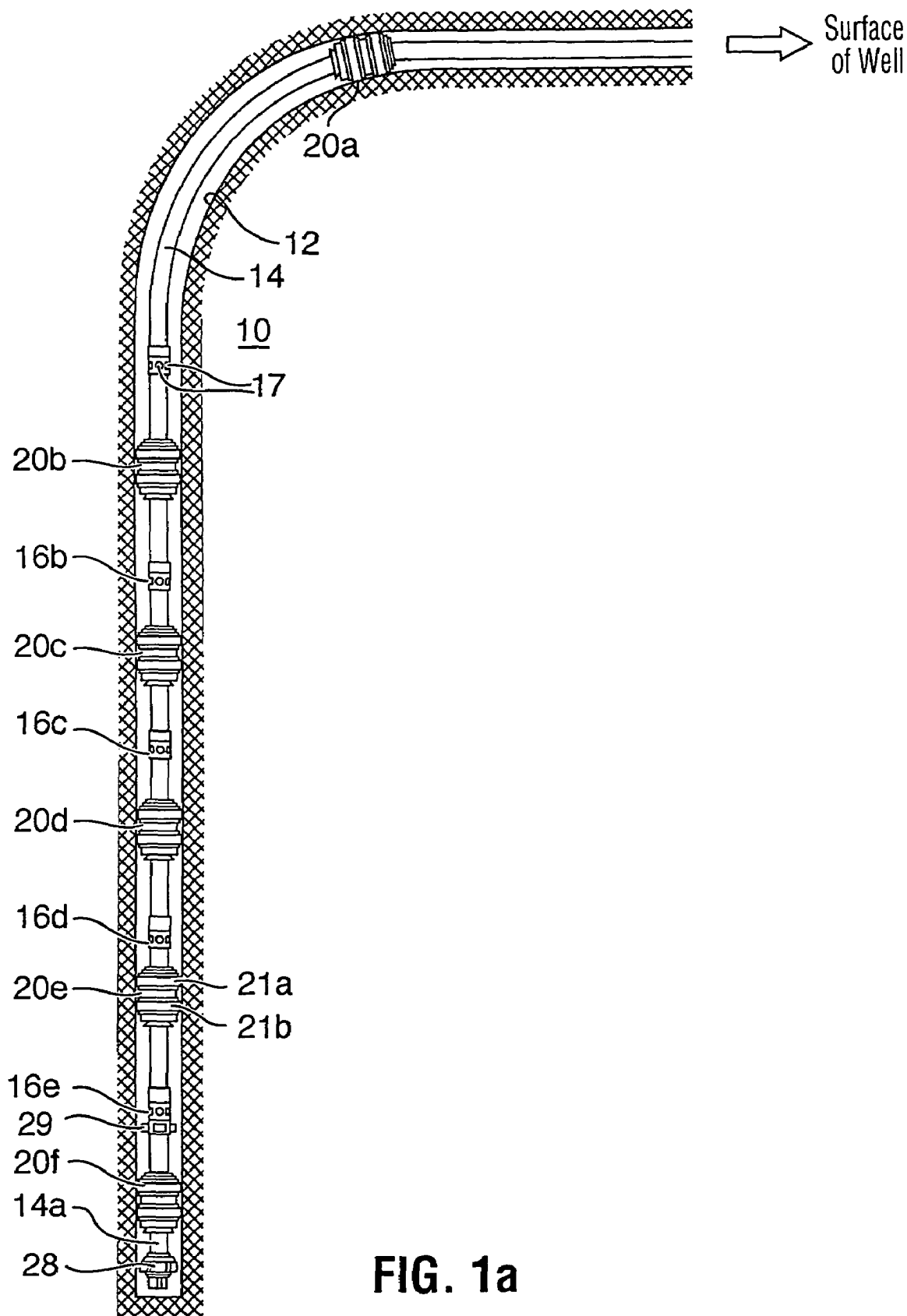
(57) **ABSTRACT**

A tubing string assembly is disclosed for fluid treatment of a wellbore. The tubing string can be used for staged wellbore fluid treatment where a selected segment of the wellbore is treated, while other segments are sealed off. The tubing string can also be used where a ported tubing string is required to be run in in a pressure tight condition and later is needed to be in an open-port condition.

44 Claims, 9 Drawing Sheets



**BAKER HUGHES INCORPORATED
AND BAKER HUGHES OILFIELD
OPERATIONS, INC.**
Exhibit 1001
**BAKER HUGHES INCORPORATED
AND BAKER HUGHES OILFIELD
OPERATIONS, INC. v. PACKERS
PLUS ENERGY SERVICES, INC.**
IPR2016-00596



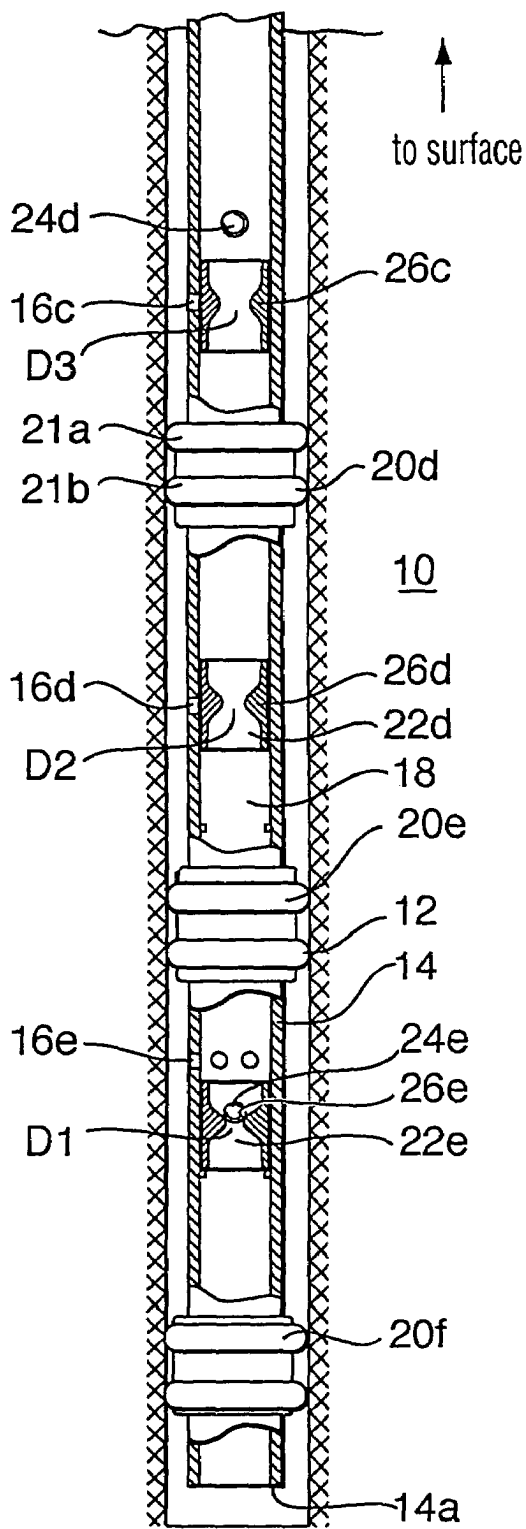


FIG. 1b

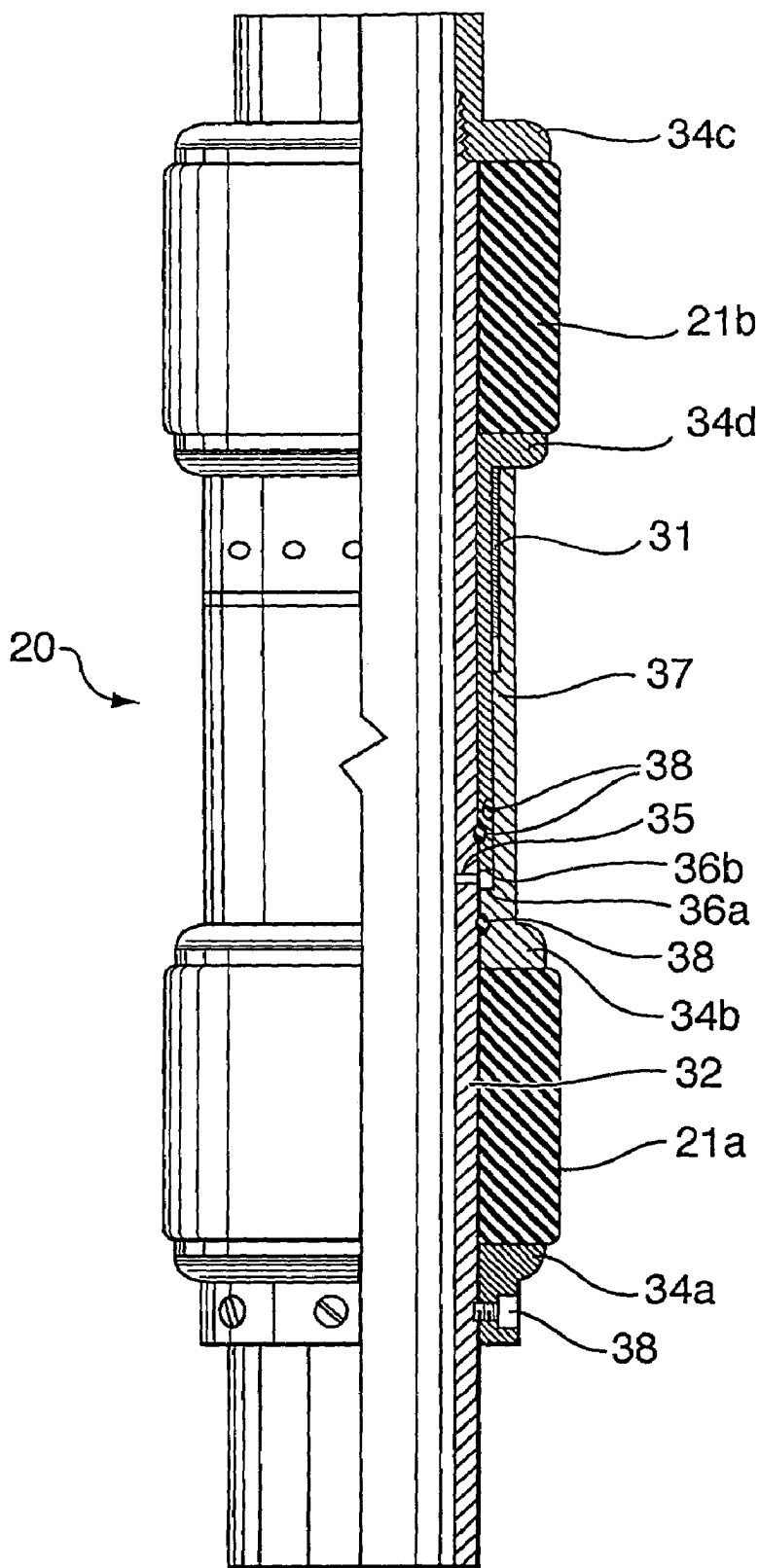


FIG. 2

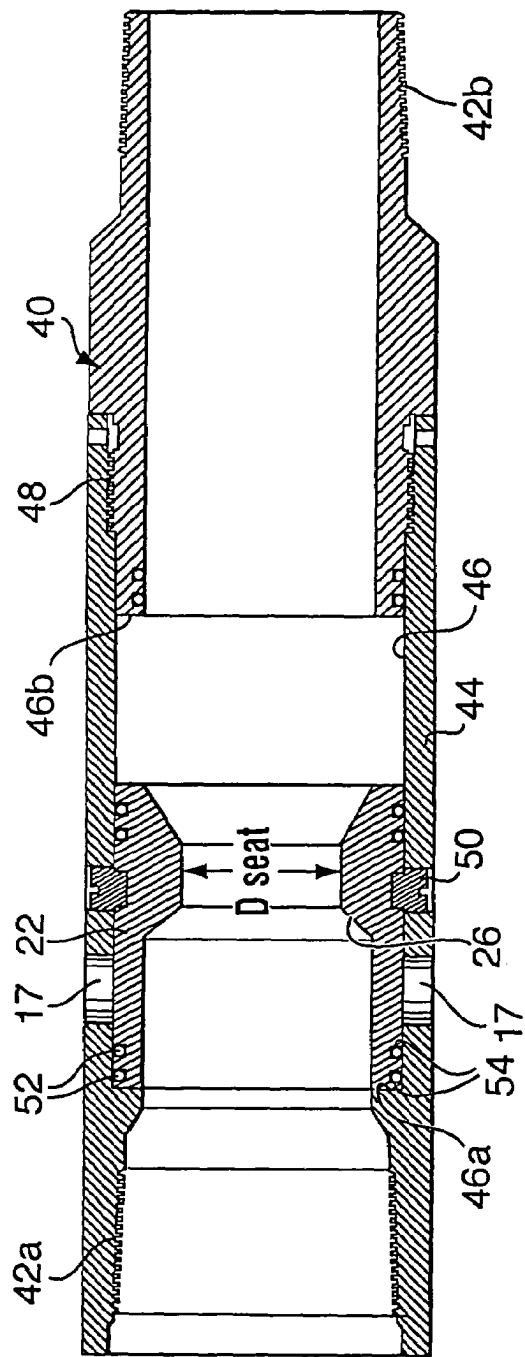


FIG. 3a

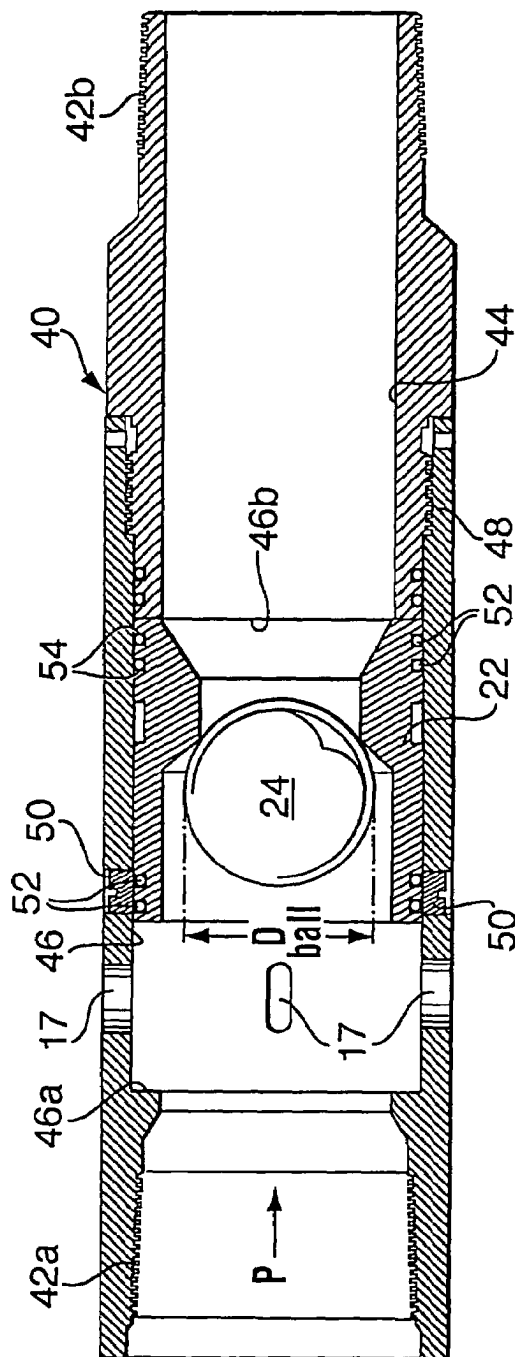


FIG. 3b

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