UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GREENE'S ENERGY GROUP, LLC,

Petitioner,

v.

OIL STATES ENERGY SERVICES, LLC,

Patent Owner.

Case IPR2014-00216

Patent No. 6,179,053

PATENT OWNER PRELIMINARY RESPONSE UNDER 37 C.F.R. § 42.107

EXHIBIT A

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Patent Number:

Date of Patent:

5,819,851

Oct. 13, 1998

United States Patent [19]

Dallas

[54] BLOWOUT PREVENTER PROTECTOR FOR USE DURING HIGH PRESSURE OIL/GAS WELL STIMULATION

- [76] Inventor: L. Murray Dallas, 801 New England Ct., Allen, Tex. 75002
- [21] Appl. No.: 783,860
- [22] Filed: Jan. 16, 1997
- 166/90.1; 166/386; 166/387

 [58] Field of Search

 166/308, 386,
 - 166/387, 86.1, 87.1, 90.1

[56] References Cited

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Primary Examiner—Roger J. Schoeppel Attorney, Agent, or Firm—Dority & Manning, P.A.

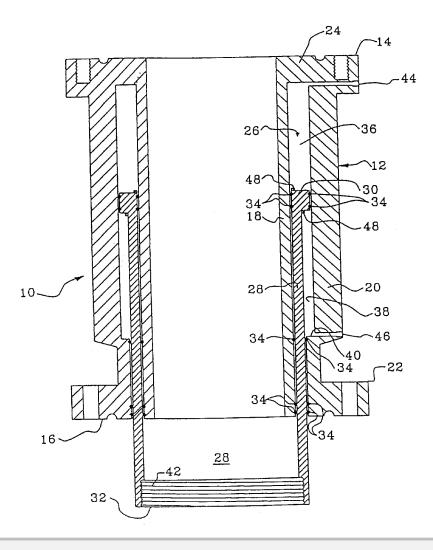
[57] ABSTRACT

[11]

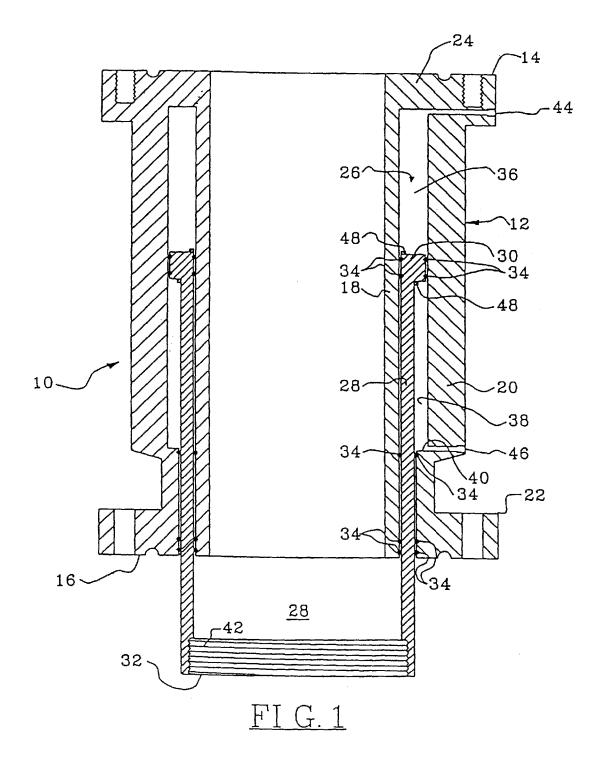
[45]

An apparatus for protecting blowout preventers during well fracturing and/or stimulation treatments is disclosed. The apparatus includes a hollow spool with spaced-apart inner and outer sidewalls that define an annular cavity. A mandrel is forcibly reciprocatable in the cavity. The mandrel includes an annular seal at a bottom end for sealingly engaging a bit guide attached to a top end of the casing. The apparatus is mounted above a BOP attached to a casing spool of the well before well stimulation procedures are begun. The mandrel is stroked down through the BOP to protect it from exposure to fluid pressure as well as abrasive and/or corrosive well stimulation fluids, especially extreme pressures and abrasive proppants. The advantage is a simple, easy to operate apparatus for protecting BOPs which provides full access to the well casing with well servicing tools to facilitate well stimulation at pressures approaching the burst pressure rating of the well casing.

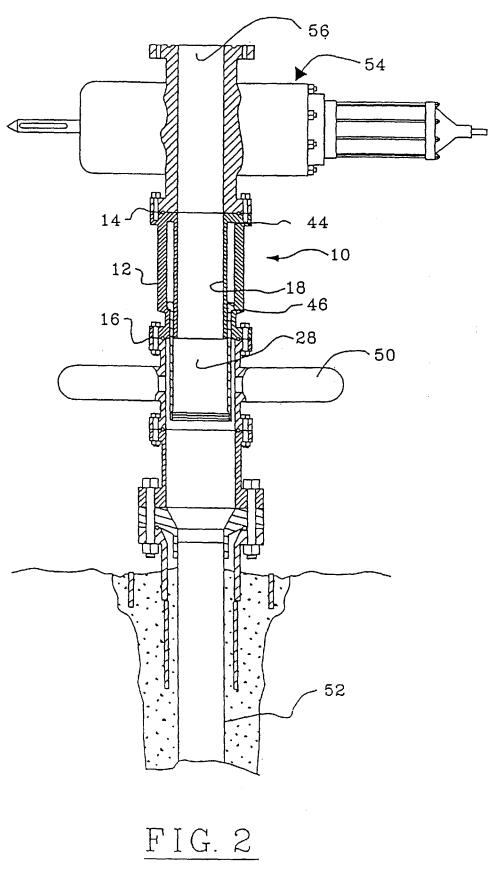
45 Claims, 5 Drawing Sheets



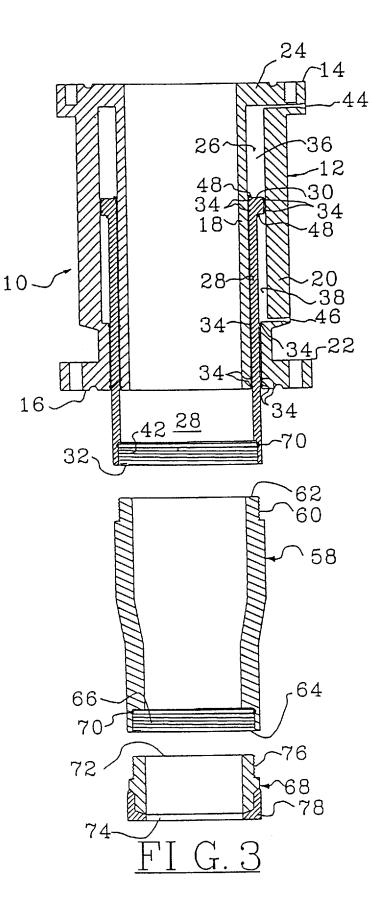
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