



US 20160258267A1

(19) **United States**

(12) **Patent Application Publication**
PAYNE et al.

(10) **Pub. No.: US 2016/0258267 A1**

(43) **Pub. Date: Sep. 8, 2016**

(54) **WELL FRACTURING SYSTEMS WITH ELECTRICAL MOTORS AND METHODS OF USE**

Publication Classification

(71) Applicant: **STEWART & STEVENSON, LLC**,
Houston, TX (US)

(51) **Int. Cl.**
E21B 44/00 (2006.01)
E21B 43/26 (2006.01)

(72) Inventors: **MARK PAYNE**, HOUSTON, TX (US);
HAOMIN LIN, HOUSTON, TX (US);
TOM ROBERTSON, HOUSTON, TX (US)

(52) **U.S. Cl.**
CPC *E21B 44/00* (2013.01); *E21B 43/26* (2013.01)

(73) Assignee: **STEWART & STEVENSON, LLC**

(57) **ABSTRACT**

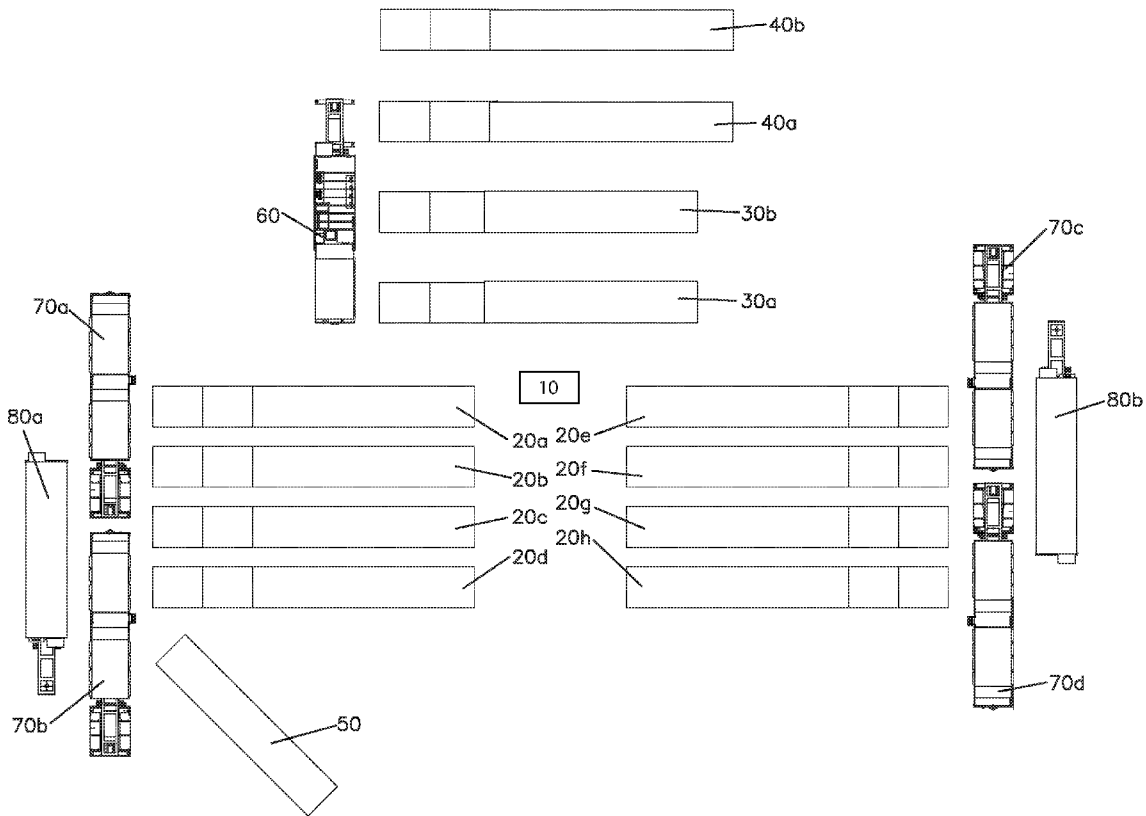
(21) Appl. No.: **15/060,296**

A system for stimulating oil or gas production from a well-bore includes a hydraulic fracturing pump unit having one or more hydraulic fracturing pumps driven by one or more electrical fracturing motors, a variable frequency drive (VFD) controlling the electrical fracturing motors, a fracturing pump blower unit driven by a blower motor, and a fracturing pump lubrication unit having a lubrication pump driven by a lubrication motor and a cooling fan driven by a cooling motor. The system may further include a blender unit and a hydration unit. A system control unit may control the operational parameters of the system.

(22) Filed: **Mar. 3, 2016**

Related U.S. Application Data

(60) Provisional application No. 62/128,291, filed on Mar. 4, 2015.



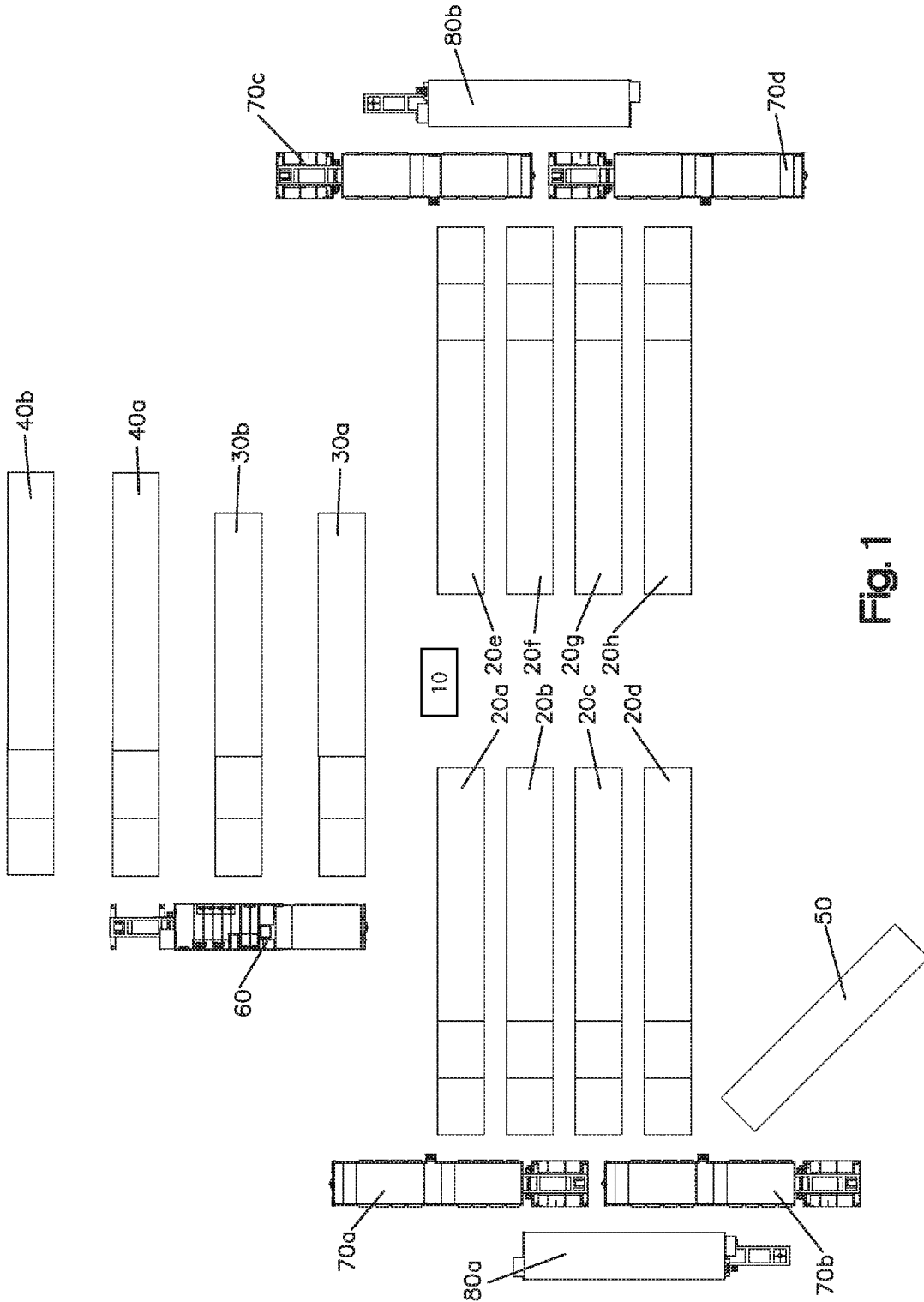


Fig. 1

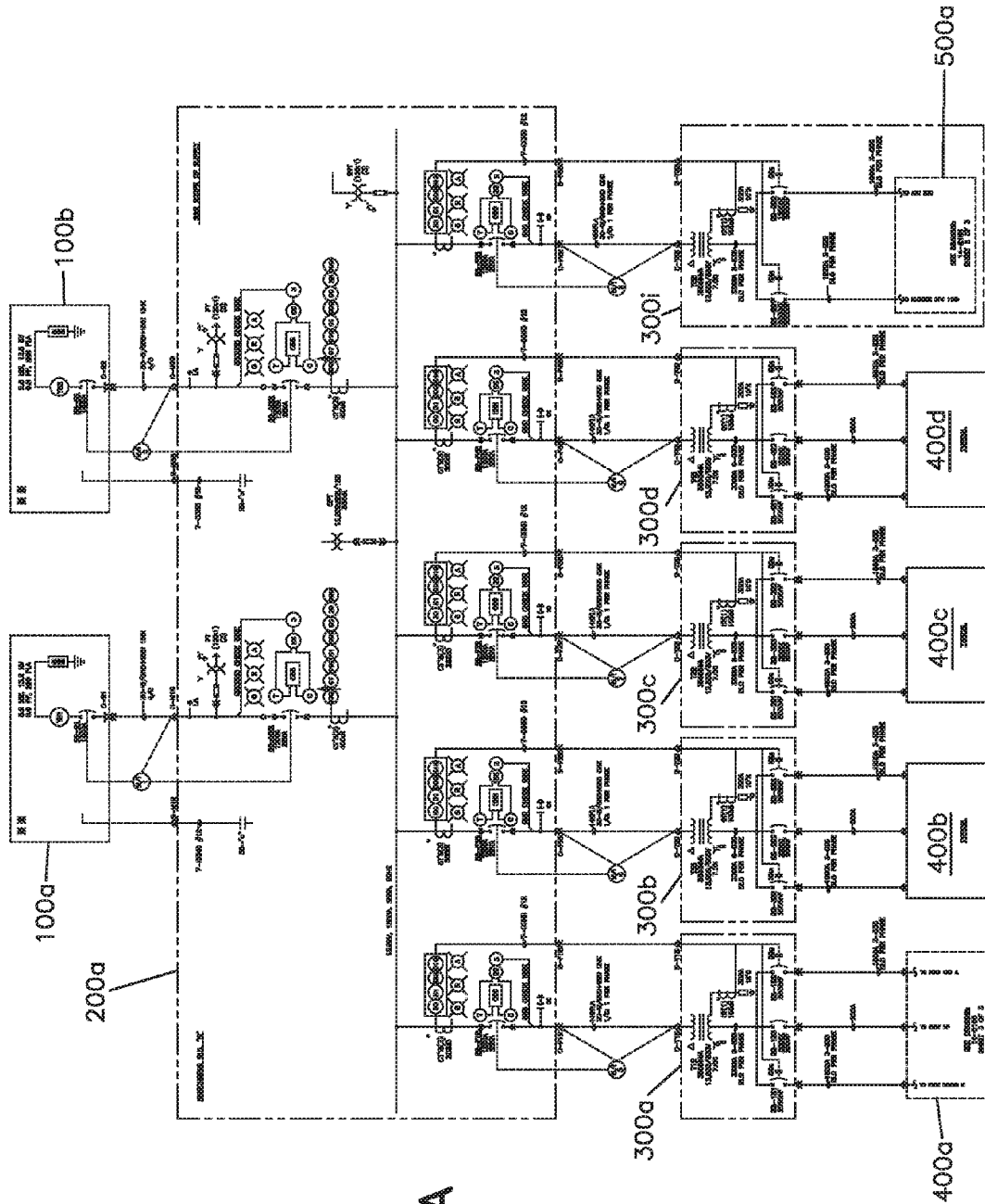


Fig. 2A

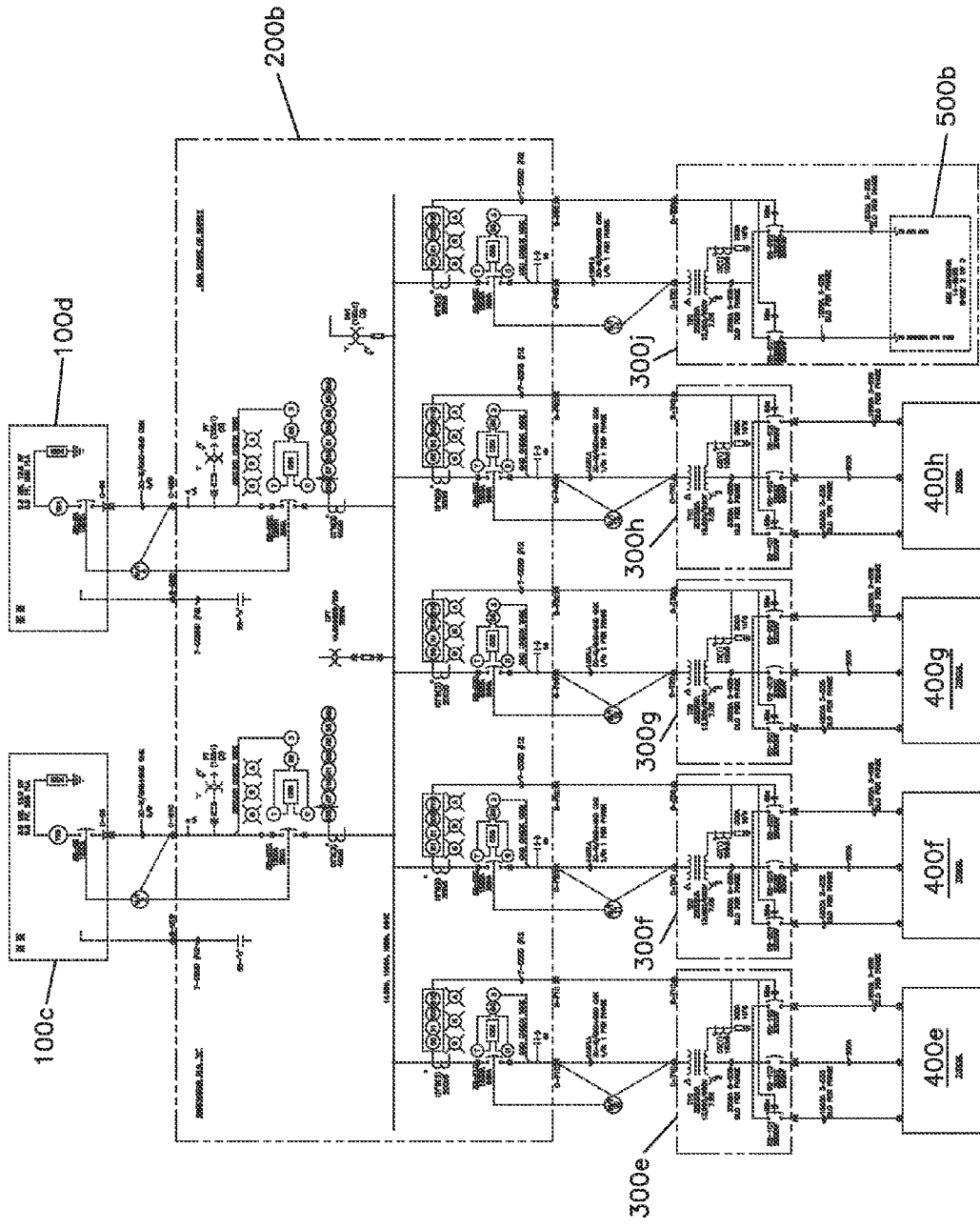


Fig. 2B

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.