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(71) Applicant (for all designated States except US): **IDAT-ECH, LLC** [US/US]; 63160 Britta Street, Bend, OR 97701 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **EDLUND, David, J.** [US/US]; 1698 Davenport, Bend, OR 97701 (US). **ELLIOTT, Darrell, J.** [US/US]; 22260 Calgary Lane, Bend, OR 97702 (US). **HAYES, Alan, E.** [US/US]; 1340 NE Watson Drive, Bend, OR 97701 (US). **PLEDGER,**

William, A. [US/US]; 69222 Harness, Sisters, OR 97759 (US). **RENN, Curtiss** [US/US]; 2342 NE Shepard, Bend, OR 97701 (US). **STEPHENS, Redwood** [US/US]; 204 NW Florida Avenue, Bend, OR 97701 (US). **STUDEBAKER, R., Todd** [US/US]; 23102 Lariat Lane, Bend, OR 97701 (US).

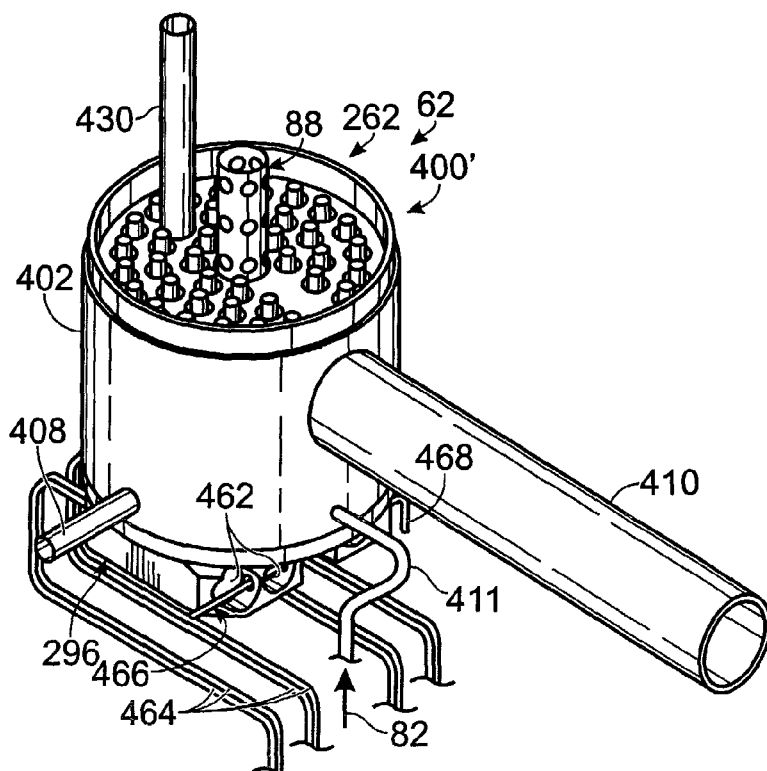
(74) Agent: **D'ASCENZO, David, S.**; Kolisch Hartwell, P.C., 520 SW Yamhill Street, Suite 200, Portland, OR 97204 (US).

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(54) Title: STEAM REFORMING FUEL PROCESSOR, BURNER ASSEMBLY, AND METHODS OF OPERATING THE SAME



(57) Abstract: A burner assembly (400') receiving at least one liquid and/or gaseous fuel stream (408) mixing said stream with air (410) and combusting the mixed stream to provide heat for a fuel processor. The burner assembly fuel stream (408) may originate as at least one combustible stream produced by fuel processing and/or fuel cell system and have the same composition as a stream that is delivered for non-combustion purposes to another portion of the fuel processing and/or fuel cell system. Additionally the burner assembly (400') may receive and vaporize a fuel stream (82) that includes the same carbon-containing feedstock and/or has the same overall composition as feed stream from which the fuel processor, e.g. steam reformer, produces hydrogen gas.

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