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(71) Applicant: SIEMENS ENERGY, INC. [US/US]; 4400
Alafaya Trail, Orlando, Florida 32826-2399 (US).

(72) Inventors: FELCH, Chad L.; 1862 Mike Lane, Kronen-
wetter, Wisconsin 54455 (US). MUNSON, Stuart J.;
3420 Blaisdell Ave, Minneapolis, Minnesota 55408 (US).

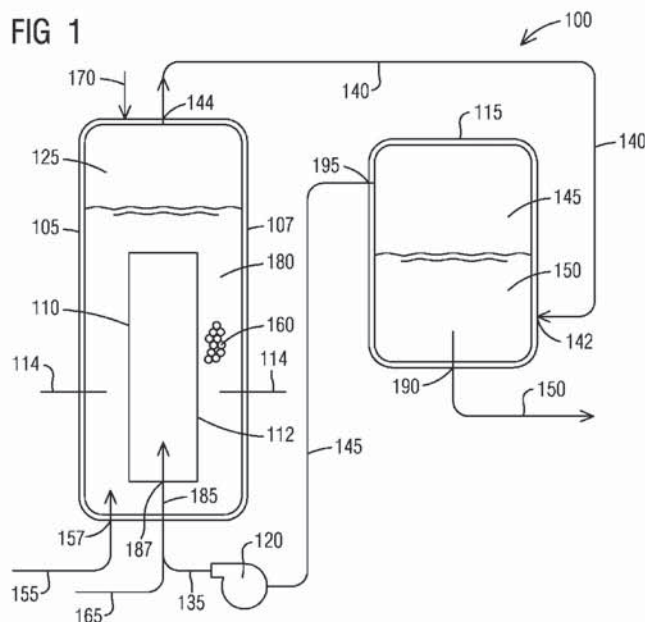
(74) Agent: SCOTT, Mark W.; Siemens Corporation- Intellec-
tual Property Dept., 3501 Quadrangle Blvd. Ste. 230, Or-
lando, Florida 32817 (US).

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(54) Title: FILTER BED BACKWASH SYSTEM AND PROCESS WITH RECYCLED GAS



(57) Abstract: According to various aspects and
embodiments, a system (100) and method (200)
for recycling gas in a backwash process is
provided. The backwash process (200) may
comprise removing contaminants from a bed of
filtration media (160) in a water treatment pro-
cess. The method (200) may comprise generat-
ing (202) a mixed liquid-gas stream (140) from
the backwash process, withdrawing (204) the
mixed liquid-gas stream (140) from the back-
wash process, separating (206) the mixed liquid-
gas stream (140) into a liquid (150) and a gas
(145), and recycling at least a portion of the se-
parated gas (145) to the water treatment device
(105).

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