

SYSTEM FOR COLLECTING DEBRIS

Kyle Allan Bandy, Columbus, OH (US); Alexa Riley Cunningham, Springfield, OH (US); Tina Marie Harris, Huber Heights, OH (US); Arizona Chenoa Henderson, Springfield, OH (US); Thomas Eugene Jenkins, Jr., Enon, OH (US); James Virgil Shaner, Springfield, OH (US); Jennifer Christina Schwaiger Tropp, Springfield, OH (US); Emma Rose Bennett, Springfield, OH (US); Braelynn Marie Cameron, Dayton, OH (US); Makenzie Sue Gossett, Enon, OH (US); Masonn James Hayslip, Enon, OH (US); Lacy Rose Herdman, Springfield, OH (US); Lillian Mae Hopkins, Enon, OH (US); Tyler Thomas Jenkins, Enon, OH (US); Kylie Yu Jian Mader, Fairborn, OH (US); Madison Leight North, Springfield, OH (US); Kacie Ann Sizer, Springfield, OH (US); Rhiannon Alyse Thomas, Fairborn, OH (US); and Alexandra Elaine Tighe, Fairborn, OH (US)

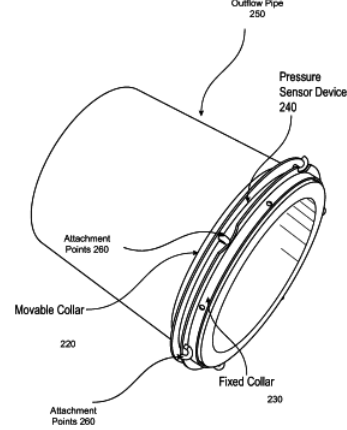
Filed by Kyle Allan Bandy, Columbus, OH (US); Alexa Riley Cunningham, Springfield, OH (US); Tina Marie Harris, Huber Heights, OH (US); Arizona Chenoa Henderson, Springfield, OH (US); Thomas Eugene Jenkins, Jr., Enon, OH (US); James Virgil Shaner, Springfield, OH (US); Jennifer Christina Schwaiger Tropp, Springfield, OH (US); Emma Rose Bennett, Springfield, OH (US); Braelynn Marie Cameron, Dayton, OH (US); Makenzie Sue Gossett, Enon, OH (US); Masonn James Hayslip, Enon, OH (US); Lacy Rose Herdman, Springfield, OH (US); Lillian Mae Hopkins, Enon, OH (US); Tyler Thomas Jenkins, Enon, OH (US); Kylie Yu Jian Mader, Fairborn, OH (US); Madison Leight North, Springfield, OH (US); Kacie Ann Sizer, Springfield, OH (US); Rhiannon Alyse Thomas, Fairborn, OH (US); and Alexandra Elaine Tighe, Fairborn, OH (US)

Filed on Dec. 3, 2020, as Appl. No. 17/111,162.

Int. Cl. *E03F 5/14* (2006.01); *B01D 35/02* (2006.01); *B01D 29/60* (2006.01); *E03F 1/00* (2006.01); *B01D 35/143* (2006.01)

CPC *E03F 5/14* (2013.01) [*B01D 29/606* (2013.01); *B01D 35/02* (2013.01); *B01D 35/1435* (2013.01); *E03F 1/001* (2013.01); *E03F 2201/40* (2013.01)]

10 Claims



System For Collecting Debris 200

1. A system for collecting debris from an outflow pipe comprising:
 - a first collar, the first collar having means for attaching to the outflow pipe;
 - a second collar, the second collar configured to move along a longitudinal axis of the outflow pipe, the second collar including attachment points;
 - a collection net having an open end and a closed end, the open end of the collection net being removably attached to the attachment points on the second collar;
 - a pressure sensor attached to the first collar;
 - a controller unit having a transmitter;
 wherein the second collar is configured to move toward the first collar in response to the collection net being weighed down by debris collected in the collection net, wherein the second collar is configured to impart pressure on the pressure sensor when the second collar moves toward the first collar, wherein the pressure sensor is configured to produce an electrical signal in response to the imparted pressure, the signal corresponding to the pressure sensed by the pressure sensor, and wherein the controller unit is configured to transmit a radio signal through the transmitter when the electrical signal reaches a threshold.