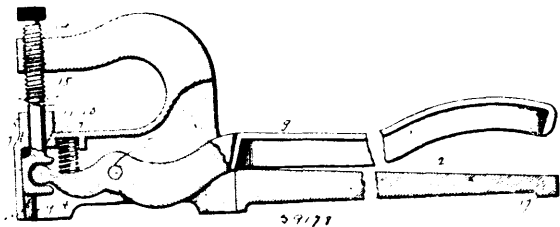
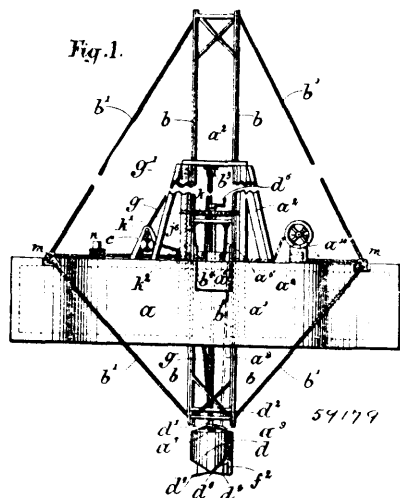


needed to the head, substantially as and for the purpose specified. 3rd. The combination of the head 1, provided with the lateral



flanges 16, and the arm or handle 2, provided with the rest 17, the pivoted handle 9, connected to the head, and loosely connected to the plunger-head, and an adjustable die, substantially as and for the purpose specified.

No. 59,179. Dredge. (Dragueur.)



George Poll, 167 Pentonville Road, London, England, 2nd March 1898; 6 years. (Filed 5th January, 1898.)

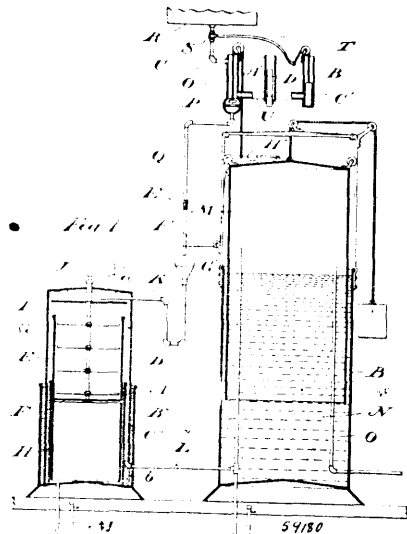
Claim.—1st. A dredge constructed with a well through which guide rods may pass to support a closed bucket, substantially as and for the purposes set forth herein. 2nd. A dredge constructed with a well through which guide rods may pass to support a closed bucket revolved by gearing, substantially as and for the purposes set forth herein. 3rd. A dredge constructed with a well through which guide rods may pass to support a closed bucket revolved by a vertical shaft and spur wheels, substantially as and for the purposes set forth herein. 4th. A dredge bucket having a closed top provided with manholes, falling flaps, and with a bottom formed as shown on figures 1, 3 and 4 substantially as and for the purposes set forth herein. 5th. A dredge bucket having a closed top provided with manholes, falling flaps, and a screwed shaft and nut, substantially as and for the purposes set forth herein. 6th. In combination a nut made in two halves, springs for separating the same, and a strap acting upon wedge-shaped faces, substantially as and for the purposes set forth herein. 7th. In combination, a nut made in two halves, springs for separating the same, a strap acting upon wedge-shaped faces and held in position by an adjustable eye bolt and a pin, substantially as and for the purposes set forth herein.

No. 59,189. Apparatus for Producing and Storing Acetylene Gas. (Appareil pour la production et l'emmagasinage du gaz acétylène.)

Richard Frederick Carter, Niagara, Ontario, Canada, 2nd March, 1898; 6 years. (Filed 31st December, 1896.)

Claim.—1st. In an apparatus of the class described, a generator containing a hollow cylinder, a perforated diaphragm dividing said cylinder in two parts and thus forming a carbide-chamber in the part on one side of said diaphragm and a lime-receptacle in the part on the other side, in combination with an agitator journaled in the carbide-chamber and having its spindle extending outside of the generator, substantially as described. 2nd. In apparatus of the class described, a generator comprising a hollow cylinder open at its upper end and provided with an inner concentric wall forming an annular water space, in combination with a hollow cylinder open at its lower end and adapted to extend within the said annular water-space, a hollow cylinder divided by a perforated diaphragm to form a carbide-chamber and a lime-receptacle, in combination with an

agitator journaled within the receptacle, and having its spindle extending outside the generator, substantially as and for the purpose specified. 3rd. In apparatus of the class described having a generating-chamber and a gas-dome, the chambers O¹ and B¹, and the pipe U, connecting the same, the outlet valve P, and mechanism for operating the valve by the rise and fall of the gas-dome, in combination with a pipe connecting the said chambers with a suitable water-supply, a cock controlling the passage of water in the pipe and mechanism for automatically opening and closing the said cock by the fall and rise of water in the said chambers, substantially as and for the purpose specified. 4th. In apparatus of the class described, having a generating-chamber and a gas-dome, the chambers O¹ and B¹, connected by the pipe U, the outlet valve P, and a cord or chain passing over a suitable guide and connected to the gas-dome, in combination with a pipe connecting the said chambers with a suitable water-supply, a cock controlling the passage of water in the pipe, a lever connected to the stem of the cock, and a float located within the chamber B¹, and suitably connected with the said lever to operate the same by the rise and fall of the water within the cylinder, substantially as and for the purpose specified. 5th. In apparatus of the class described having a generating-chamber and a gas-dome, a water-measuring device comprising the chambers O¹, A¹ and B¹ connected by the pipe U, the outlet valve P, and a cord or chain passing over a suitable guide and connected to the gas-dome, in combination with a pipe connecting the said chamber with a suitable water-supply, a cock controlling the passage of water in the pipe, a lever connected to the stem of the cock, a float located within the chamber B¹, and suitably connected with the said lever to operate the same by the rise and fall of the water within the chamber, and a pipe D¹ extending through the bottom of the chamber A¹, and vertically movable therein, substantially as and for the purpose specified. 6th. In apparatus of the class described, a water-measuring device connected with the generator, in combination with mechanism controlled by the decrease of gas in the apparatus for causing the water in the measuring device to flow into the generator, a water supply to the said measuring device, automatic mechanism for refilling the water-measuring device after it has been emptied, and a tube vertically movable through the bottom of said chamber to regulate the height of the water therein, substantially as and for the purpose specified. 7th. In apparatus of the class described, having a generating-chamber and a gas-dome, a water measuring device provided with an outlet-valve and mechanism for operating the valve by the rise and fall of the gas-dome, in combination with a pipe connecting the said chamber with a suitable water-supply, a cock controlling the passage of water in the pipe, mechanism for automatically opening and closing the said cock by the fall and rise of water in the said chamber, and a tube vertically movable through the bottom of said chamber to regulate the height of the water therein, substantially as and for the purpose specified. 8th. In apparatus of the class described, a generator and gas-dome in combination with the water-measuring device provided with an outlet-valve and an adjustable overflow, and mechanism for operating the valve by the rise and fall of the gas-dome, in combination with a pipe connecting the said chamber with a suitable water-supply, a cock controlling the passage of water in the pipe, mechanism for automatically opening and closing the said cock by the fall and rise of water in the said chamber, and a tube vertically movable through the bottom of said chamber to regulate the height of the water therein, substantially as and for the purpose specified. 9th. In apparatus of the class described having a generating chamber and a gas-dome, a water measuring device provided with



pose specified. 3rd. In apparatus of the class described having a generating-chamber and a gas-dome, the chambers O¹ and B¹, and the pipe U, connecting the same, the outlet valve P, and mechanism for operating the valve by the rise and fall of the gas-dome, in combination with a pipe connecting the said chambers with a suitable water-supply, a cock controlling the passage of water in the pipe and mechanism for automatically opening and closing the said cock by the fall and rise of water in the said chambers, substantially as and for the purpose specified. 4th. In apparatus of the class described, having a generating-chamber and a gas-dome, the chambers O¹ and B¹, connected by the pipe U, the outlet valve P, and a cord or chain passing over a suitable guide and connected to the gas-dome, in combination with a pipe connecting the said chambers with a suitable water-supply, a cock controlling the passage of water in the pipe, a lever connected to the stem of the cock, and a float located within the chamber B¹, and suitably connected with the said lever to operate the same by the rise and fall of the water within the cylinder, substantially as and for the purpose specified. 5th. In apparatus of the class described having a generating-chamber and a gas-dome, a water-measuring device comprising the chambers O¹, A¹ and B¹ connected by the pipe U, the outlet valve P, and a cord or chain passing over a suitable guide and connected to the gas-dome, in combination with a pipe connecting the said chamber with a suitable water-supply, a cock controlling the passage of water in the pipe, a lever connected to the stem of the cock, a float located within the chamber B¹, and suitably connected with the said lever to operate the same by the rise and fall of the water within the chamber, and a pipe D¹ extending through the bottom of the chamber A¹, and vertically movable therein, substantially as and for the purpose specified. 6th. In apparatus of the class described, a water-measuring device connected with the generator, in combination with mechanism controlled by the decrease of gas in the apparatus for causing the water in the measuring device to flow into the generator, a water supply to the said measuring device, automatic mechanism for refilling the water-measuring device after it has been emptied, and a tube vertically movable through the bottom of said chamber to regulate the height of the water therein, substantially as and for the purpose specified. 7th. In apparatus of the class described, having a generating-chamber and a gas-dome, a water measuring device provided with an outlet-valve and mechanism for operating the valve by the rise and fall of the gas-dome, in combination with a pipe connecting the said chamber with a suitable water-supply, a cock controlling the passage of water in the pipe, mechanism for automatically opening and closing the said cock by the fall and rise of water in the said chamber, and a tube vertically movable through the bottom of said chamber to regulate the height of the water therein, substantially as and for the purpose specified. 8th. In apparatus of the class described, a generator and gas-dome in combination with the water-measuring device provided with an outlet-valve and an adjustable overflow, and mechanism for operating the valve by the rise and fall of the gas-dome, in combination with a pipe connecting the said chamber with a suitable water-supply, a cock controlling the passage of water in the pipe, mechanism for automatically opening and closing the said cock by the fall and rise of water in the said chamber, and a tube vertically movable through the bottom of said chamber to regulate the height of the water therein, substantially as and for the purpose specified. 9th. In apparatus of the class described having a generating chamber and a gas-dome, a water measuring device provided with