CLAIMS

1. A suctioning device for travelling a tank bottom with water, which suctions a water flow with flocculated particles in order to accomplish filtration of the water of said tank, comprising: a structural frame having a means of coupling to a pump system; a means of wheeling with a horizontal axle for moving around the tank bottom; a means of rotative sliding with a vertical axle for adjacent displacement to walls of the tank; a means of suctioning including a plurality of suction lines; a means of cleaning; and a means of pivoting between the means of wheeling and the structural frame.

2. The suctioning device according to Claim 1, wherein the structural frame comprises a means of pivotable subjection for attachment to a means of traction; and a means of fastening between the means of suctioning, means of cleaning and the structural frame.

3. The suctioning device according to Claim 1, wherein the horizontal axles of the means of wheeling, are made of stainless steel where semi-rigid polyurethane protective rollers are located, and where supporting wheels made of high density polyethylene for supporting and displacement of the structural frame are located.

4. The suctioning device according to Claim 3, wherein the means of pivoting, which connect the structural frame, the means of wheeling and the means of suctioning are located around the horizontal axels.

5. The suctioning device according to Claim 4, wherein, said means of wheeling further comprises secondary axles made of stainless steel in epoxy resin bearings located on sides of the means of suctioning and means of cleaning, wherein secondary wheels made of high density polyethylene for support and displacement of the means of suctioning and the means of cleaning are located in said secondary axles.

6. The suctioning device according to Claim 1, wherein the means of rotative sliding comprise vertical axles and further comprise lateral protective wheels made of high density polyethylene.

7. The suctioning device according to Claim 1, wherein the means of coupling comprises a hose nozzle for a flexible hose connected to the pump system, PVC connectors and flexible corrugated pipes connected to the means of suctioning.

8. The suctioning device according to Claim 1, wherein the means of suctioning comprises a suction channel made of folded stainless steel which connects suctioning inlets made of stainless steel tubes and argon welded with continuous weld bead to said suctioning channel; PVC connectors; and flexible corrugated pipes connected to the means of coupling.

9. The suctioning device according to Claim 1; wherein the fastening means comprise cords, which hang the means of suctioning and the means of cleaning on the structural frame no more than 2 cm from the tank bottom.

Claims

What is claimed is:

1. A suctioning device for travelling a tank bottom with water, which suctions a water flow with flocculated particles in order to accomplish filtration of the water of said tank, comprising: a structural frame having a means of coupling to a pump system; a means of wheeling with a horizontal axle for moving around the tank bottom; a means of rotative sliding with a vertical axle for adjacent displacement to walls of the tank; a means of suctioning including a plurality of suction lines; a means of cleaning; and a means of pivoting between the means of wheeling and the structural frame; and a means of fastening between the means of suctioning, means of cleaning and the structural frame, wherein the fastening means comprise cords.

2. The suctioning device according to Claim 1, wherein the structural frame comprises a means of pivotable subjection for attachment to a means of traction.

3. The suctioning device according to Claim 1, wherein the horizontal axles of the means of wheeling, are made of stainless steel where semi-rigid polyurethane protective rollers are located, and where supporting wheels made of high density polyethylene for supporting and displacement of the structural frame are located.

4. The suctioning device according to Claim 3, wherein the means of pivoting, which connect the structural frame, the means of wheeling and the means of suctioning are located around the horizontal axels.

5. The suctioning device according to Claim 4, wherein, said means of wheeling further comprises secondary axles made of stainless steel in epoxy resin bearings located on sides of the means of suctioning and means of cleaning, wherein secondary wheels made of high density polyethylene for support and displacement of the means of suctioning and the means of cleaning are located in said secondary axles.

6. The suctioning device according to Claim 1, wherein the means of rotative sliding with the vertical axle and further comprising lateral protective wheels made of high density polyethylene.

7. The suctioning device according to Claim 1, wherein the means of coupling comprises a hose nozzle for a flexible hose connected to the pump system, PVC connectors and flexible corrugated pipes connected to the means of suctioning.

8. The suctioning device according to Claim 1, wherein the means of suctioning comprises a suction channel made of folded stainless steel which connects suctioning inlets made of stainless steel tubes and argon welded with continuous weld bead to said suctioning channel; PVC connectors; and flexible corrugated pipes connected to the means of coupling.

9. The suctioning device according to Claim 1; wherein the fastening means comprise cords, which hang the means of suctioning and the means of cleaning on the structural frame no more than 2 cm from the tank bottom.