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c) in a third operating mode, the first valve (V1), the second valve (V2), the third valve (V3) and the fourth valve (V4) are all open to provide for the vacuum duct (34) to open to atmosphere by way of the fourth branch (39), the pressure duct (35) to be open to atmosphere by way of the first branch (36) and the sample chamber (20) to vent to atmosphere while the clamps (50, 51) inhibit the passage through the delivery duct (25); and

d) in a neutral operating mode, the first valve (V1), the second valve (V2), the third valve (V3) and the fourth valve (V4) are all open to provide for the vacuum duct (34) to open to atmosphere by way of the fourth branch (39), the pressure duct (35) to be open to atmosphere by way of the first branch (36) and the sample chamber (20) to vent to atmosphere while the clamps (50, 51) are in an open position so that they do not inhibit the passage of liquid through the delivery duct (25); and

6) a prime mover (45) coupled to drive both the single and double lobed cams (46, 49) by way of the shaft (48) providing for operation of the first through fourth valves (V1, V2, V3, V4) and the delivery

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valve (25) to be mechanically related and be capable, while the compressor (32) is running, of transferring a sample from the body of liquid (10) to the collection device,

said method comprising the steps of:

- 1) setting the valves to the first operating mode to purge air from the compressor (32) and any liquid from the sample inlet duct (22);
- 2) setting the valves to the second operating mode to draw liquid up the sample inlet duct (22) into the sample chamber (20) until the presence of the liquid at a desired level is detected by the liquid level sensor (L);
- 3) setting the valves to the third operating mode to allow the liquid in the sample chamber (20) above the inlet (22') to leave the sample chamber through the inlet sample duct (22) to return to the body of liquid (10); and
- 4) setting the valves to the neutral mode to allow the liquid in the sample chamber (20) below the inlet (22') to leave the sample chamber through the sample delivery duct (23) to a collection device (B').

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