CLAIMS:

~~1. An excrement disposal apparatus characterized in that a sewage tank (25) is arranged on one end side inside a main body cover (73), a pipe (44) is coupled to a top plate portion of the sewage tank (25) via a suction valve (31), a suction and pressure-feed port (30) communicating from the sewage tank (25) to an external air pipe (43) is formed at the top plate portion, a crushing motor (34) of a sewage crusher (33) is attached to the top plate portion, a rotation shaft (34a) of the crushing motor (34) is hung inside the sewage tank (25) and is provided with a crushing blade (35), and an external pressure-feed pipe (45) for coupling to an external discharge part (13) is coupled to a bottom portion of the sewage tank (25) via a pressure-feed valve (32).~~

~~2. The excrement disposal apparatus according to claim 1 characterized in that a joint board (23) for detachably coupling the pipe (44) and a defecation suction pipe (19) of a cup (15) is provided on the outside of the main body cover (73) facing the internal sewage tank (25), the joint board (23) is further detachably provided with a blast pipe (20) and a water pipe (21) to the cup (15) and is provided with a wireless power supply part (24) to which an electric cord (22) to the cup (15) is detachably connected, and the main body cover (73) is provided with, below the joint board (23), an external connection joint (48) for coupling the external pressure-feed pipe (45) and the external discharge part (13).~~

~~3. The excrement disposal apparatus according to claim 2 characterized in that a suction motor (26) is arranged at a lower part on another end side inside the main body cover (73), a washing-water tank (53) is detachably provided at an upper portion of the suction motor (26), and a switch valve (27) for switching between suction and pressure-feed by the suction motor (26), a mist filter (40), an odor filter (41), and a pressure sensor (42) which are provided on the air pipe (43), and a cooling box (66) and a return box (67) which are provided on a blast pipe (65) coupling between the switch valve~~

~~(27) and the cup (15), are arranged between the suction motor (26) and the sewage tank (25) inside the main body cover (73).~~

~~4. An excrement disposal method characterized by comprising a cup control part (10) which controls a cup (15) set at a crotch of a user, and a suction and pressure-feed control part (11) which controls suction from the cup control part (10), in which an air circulation path from an inside of the cup (15) when the cup (15) is worn with a diaper (100) intervening therebetween, to a defecation suction pipe (19) of the cup (15), a pipe (44), a suction valve (31), an inside of a sewage tank (25), a suction and pressure-feed port (30), an air pipe (43), an odor filter (41), a pressure sensor (42), one side on a blast side (A) of a switch valve (27), a suction motor (26), another side on the blast side (A) of the switch valve (27), a blast pipe (65), a cooling box (66), a return box (67), and a blast pipe (20) of the cup (15) back to the inside of the cup, is formed to exhaust part of circulating air from an exhaust throttle valve (68) to outside air via a filter (69) provided in the return box (67) and suck the amount of exhaust from a gap of the diaper (100) to prevent odor from being released to the outside air.~~

~~5. The excrement disposal method according to claim 4 characterized in that the pressure sensor (42) detects a change in pressure accompanying the suction of air from the gap of the diaper (100) in the air circulation path, and whether the diaper (100) is normally worn is determined depending on a level of the pressure.~~

~~6. An excrement disposal apparatus characterized by comprising a cup control part (10) which controls a cup (15) set at a crotch of a user, a suction and pressure-feed control part (11) which controls suction from the cup control part (10) and pressure-feed from a sewage tank (25) to an external discharge part (13), and the external discharge part (13) which pressure-feeds and discharges sewage stored in the sewage tank (25),~~

~~wherein in the external discharge part (13), a drainage pipe (50) is extended to an~~

~~external connection joint (48) and inserted into a discharge trap (51) of a flushing toilet bowl (49) to pour the sewage into a sewer pipe (52).~~

~~7. An excrement disposal apparatus characterized by comprising a cup control part (10) which controls a cup (15) set at a crotch of a user, a suction and pressure-feed control part (11) which controls suction from the cup control part (10) and pressure-feed from a sewage tank (25) to an external discharge part (13), and the external discharge part (13) which pressure-feeds and discharges sewage stored in the sewage tank (25),~~

~~wherein in the external discharge part (13), a drainage pipe (50) is coupled to an on-floor cleaning hole (110) of a sewer pipe (52) by a coupling tool (111) to pour the sewage thereinto.~~

~~8. An excrement disposal apparatus characterized by comprising a cup control part (10) which controls a cup (15) set at a crotch of a user, a suction and pressure-feed control part (11) which controls suction from the cup control part (10) and pressure-feed from a sewage tank (25) to an external discharge part (13), and the external discharge part (13) which pressure-feeds and discharges sewage stored in the sewage tank (25),~~

~~wherein in the external discharge part (13), a backflow prevention pipe (115) is formed behind and coupled to a trap (114) of a waste pipe (113) of a washstand (112) or the like to pour the sewage thereinto.~~

~~9. An excrement disposal apparatus characterized by comprising a cup control part (10) which controls a cup (15) set at a crotch of a user, and a suction and pressure-feed control part (11) which controls suction from the cup control part (10),~~

~~wherein a suction valve (31) on a suction side of a sewage tank (25) has a suction and discharge port (82) provided in a valve attachment plate (81), a pipe (44) of the sewage tank (25) is airtightly attached to the suction and discharge port (82), an elastic swing arm (84) is swingably attached to a rotation shaft (88) provided at one end of the valve~~

~~attachment plate (81), a pressure adjusting screw (89) is provided on the swing arm (84) in a manner of being freely movable back and forth, a lower end portion of the pressure adjusting screw (89) is brought into pressure contact with a slider (83), a bulging edge (86) is formed at the whole periphery on an inside of the suction and discharge port (82), a guide rail (87) at the same height as a height of the bulging edge (86) is provided continuously from the bulging edge (86) and in a swinging direction of the slider (83), a guide groove (85) in an arc shape is formed in the valve attachment plate (81) on a side opposite to the rotation shaft (88), and a tip end part (84a) of the swing arm (84) is slidably fitted in the guide groove (85).~~

~~10. The excrement disposal apparatus according to claim 9 characterized in that a blade-shaped part (92) is formed at an edge portion of the slider (83) sliding in contact with the bulging edge (86).~~

1. An excrement disposal method characterized by comprising a cup control part which controls a cup set at a crotch of a user, and a suction and pressure-feed control part which controls suction from the cup control part, in which an air circulation path from an inside of the cup when the cup is worn with a diaper intervening therebetween, to a defecation suction pipe of the cup, a pipe, a suction valve, an inside of a sewage tank, a suction and pressure-feed port, an air pipe, an odor filter, a pressure sensor, one side on a blast side of a switch valve, a suction motor, another side on the blast side of the switch valve, a blast pipe, a cooling box, a return box, and a blast pipe of the cup back to the inside of the cup, is formed to exhaust part of circulating air from an exhaust throttle valve to outside air via a filter provided in the return box and suck the amount of exhaust from a gap of the diaper to prevent odor from being released to the outside air,

wherein the pressure sensor detects a change in pressure accompanying the suction of air from the gap of the diaper in the air circulation path, and whether the diaper is normally worn is determined depending on a level of the pressure.

2. An excrement disposal apparatus characterized by comprising a cup control part which controls a cup set at a crotch of a user, and a suction and pressure-feed control part which controls suction from the cup control part,

wherein a suction valve on a suction side of a sewage tank connected to the cup has a suction and discharge port provided in a valve attachment plate, a pipe of the sewage tank is airtightly attached to the suction and discharge port, an elastic swing arm is swingably attached to a rotation shaft provided at one end of the valve attachment plate, a pressure adjusting screw is provided on the swing arm in a manner of being freely movable back and forth, a lower end portion of the pressure adjusting screw is brought into pressure contact with a slider, a bulging edge is formed at the whole periphery on an inside of the suction and discharge port, a guide rail at the same height as a height of the bulging edge is provided continuously from the bulging edge and in a swinging direction of the slider, a guide groove in an arc shape is formed in the valve attachment plate on a side opposite to the rotation shaft, and a tip end part of the swing arm is slidably fitted in the guide groove.

3. The excrement disposal apparatus according to claim 2 characterized in that a blade-shaped part is formed at an edge portion of the slider sliding in contact with the bulging edge.