claim 1, further comprising:

a ~~first~~ second centrifugal filter (170) provided on a flow passage (185) connecting the drain pump (140) to the third tank (113), the ~~first~~ second centrifugal filter (170) removing impurities from fluid flowing towards the third tank (113),

the ~~first~~ second centrifugal filter (170) comprises: a housing (171) having an oil inlet (171a); a rotor assembly (172) rotating in the housing (171); a shaft (173) provided in the housing (171) to support rotation of the rotor assembly (172), the shaft (173) having therein a flow passage through which oil drawn from the oil inlet (171a) moves; a spindle tube (174) configured to rotate along with the rotor assembly (172) and receive the shaft (173) therein, the spindle tube (174) injecting oil, discharged from the shaft, into the rotor assembly; a separation film (175) partitioning a space in the rotor assembly into an upper space (S1) and a lower space (S2); and a filter layer (176) provided on the separation film (175) and made of polyester or glass fiber, the filter layer (176) additionally removing impurities from oil flowing into the lower space (S2) through the separation film.

3. A centrifugal circulating purification system, comprising:

a first tank (211) storing contaminated fluid therein;

a first centrifugal filter (220) receiving the contaminated fluid and removing impurities from the contaminated fluid;

a suction pump (230) provided on a supply flow passage (291) connecting the first tank (211) to the first centrifugal filter (220), the suction pump (230) moving fluid to the first centrifugal filter (220);

a circulation pump (240) provided on a discharge flow passage (292) extending from an outlet of the first centrifugal filter (220), the circulation pump (240) moving fluid, discharged from the first centrifugal filter (220), such that the fluid circulates into the first centrifugal filter (220) through a circulation flow passage (293) connecting the discharge flow passage (292) to the supply flow passage (291);

a second tank (212) connected to a branching flow passage (294) branching off from the discharge flow passage (292), the second tank (212) storing fluid that has been purified while having circulated through the first centrifugal filter (220);

a ~~first~~ second centrifugal filter (250) provided on the branching flow passage (294), the ~~first~~ second centrifugal filter (250) additionally removing impurities from fluid flowing to the second tank (212);

a drain pump (260) provided on the branching flow passage (294), the drain pump (260) moving fluid, drawn into the

branching flow passage, to the ~~first~~ second centrifugal filter (250);

a first three-way valve (271) provided on a junction between the supply flow passage (291) and the circulation flow passage (293);

a second three-way valve (272) provided on a junction between the discharge flow passage (292) and the branching flow passage (294); and

a timer (280) controlling the first three-way valve (271) and the second three-way valve (272) so that fluid circulates through the first centrifugal filter (220) for a preset time period.