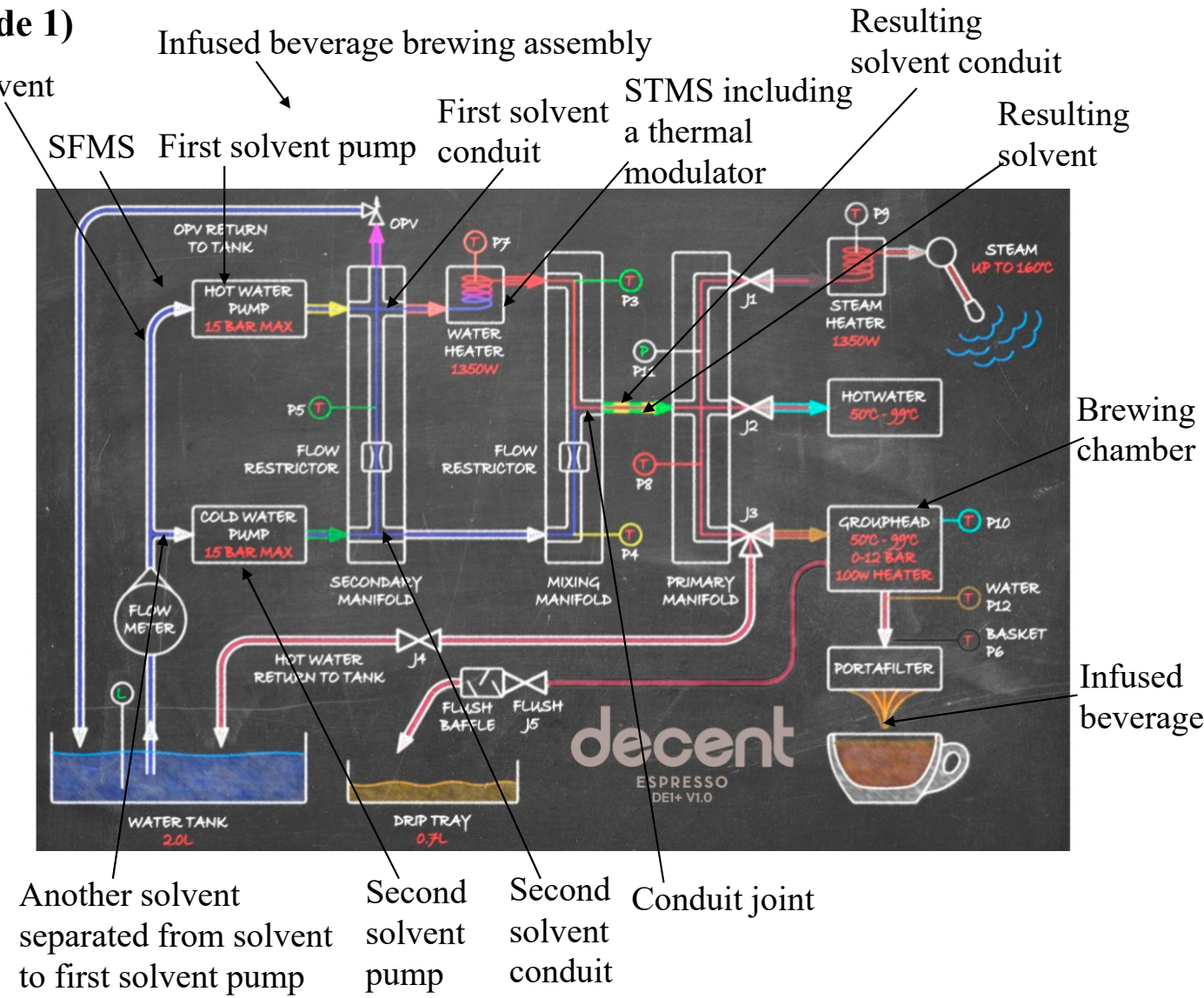


Claim Chart for the 524 Patent (Slide 1)

1. An infused beverage brewing assembly comprising:

a solvent flow management system (SFMS) with a first solvent pump fluidly coupled to a first solvent conduit and operably configured to receive a solvent and induce the flow of the solvent therethrough and a second solvent pump fluidly coupled to a second solvent conduit and operably configured to receive another solvent, separate from the solvent operably configured to be received within the first solvent pump, and induce the flow of the another solvent therethrough;

a solvent temperature modulation system (STMS) with at least one thermal modulator in fluid communication with the first solvent conduit, the first and second solvent conduits directly and fluidly coupled together to form a conduit joint downstream of the thermal modulator to form a resulting solvent conduit with a resulting solvent disposed therein at a resulting temperature and the at least one thermal modulator operably configured to thermally modulate the solvent disposed in the first solvent conduit to a raised temperature higher and different than the resulting temperature;



Claim Chart for the 524 Patent (Slide 2)

a brewing chamber in fluid communication with the resulting solvent conduit and for housing a solute disposed to receive the resulting solvent to produce an infused beverage;

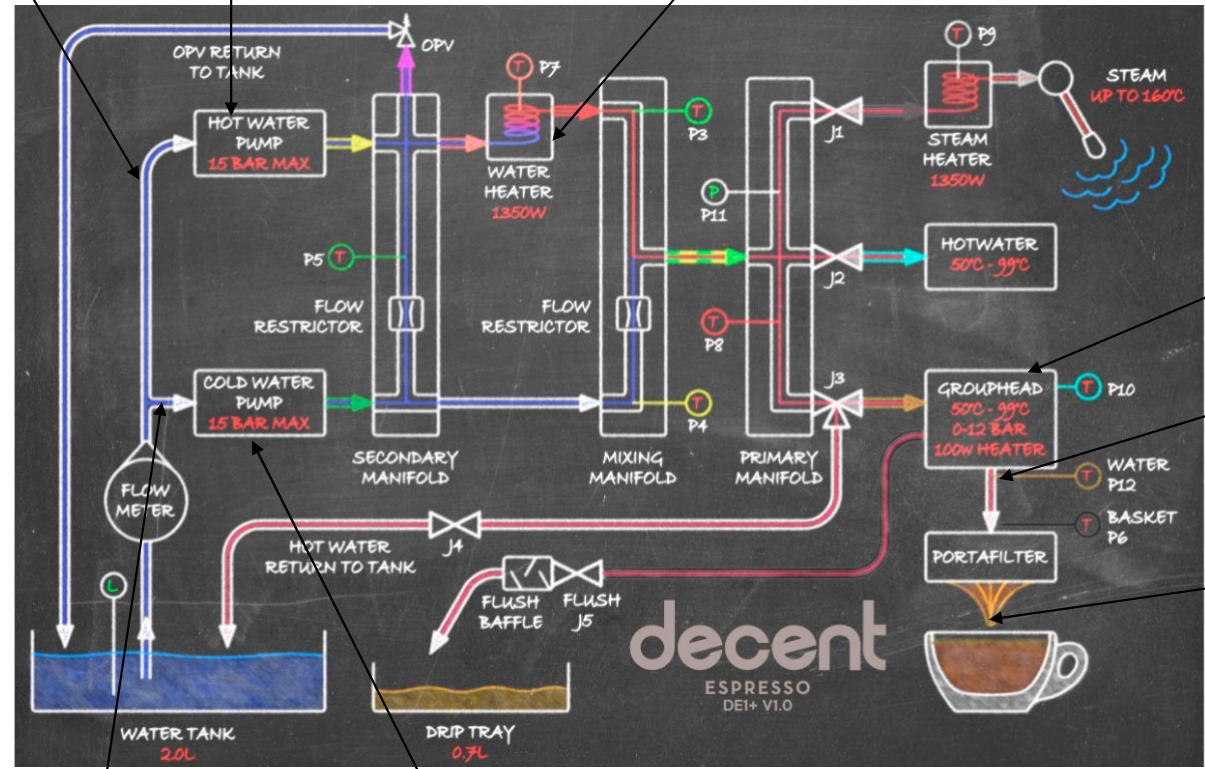
an outlet for discharging the infused beverage; and

an electronic controller communicatively coupled to the first and second solvent pumps and the at least one thermal modulator, and operably configured to modulate the flow of the solvent through the first solvent pump and the at least one thermal modulator and the another solvent through the second solvent pump.

Solvent

First solvent pump

Thermal modulator



Brewing chamber

Outlet

Infused beverage

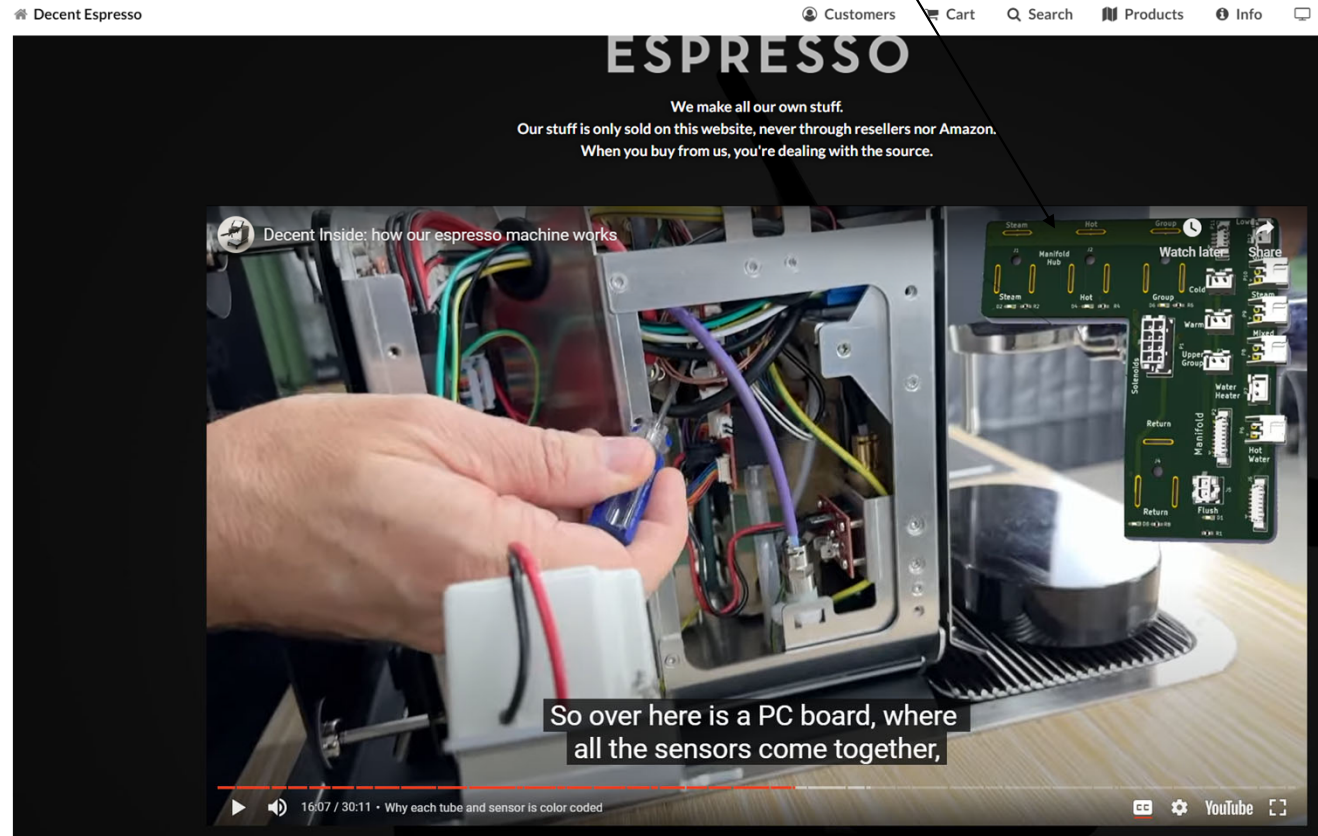
Another solvent

Second solvent pump

Claim Chart for the 524 Patent (Slide 3)

an electronic controller communicatively coupled to the first and second solvent pumps and the at least one thermal modulator, and operably configured to modulate the flow of the solvent through the first solvent pump and the at least one thermal modulator and the another solvent through the second solvent pump.

Electronic controller showing connection and ability to send and/or receive signals with all sensors, the first and second solvent pumps, and thermal modulator



<https://www.youtube.com/watch?v=9v6Del1M0k4>

Claim Chart for the 524 Patent (Slide 4)

2. The infused beverage brewing assembly according to claim 1, further comprising:

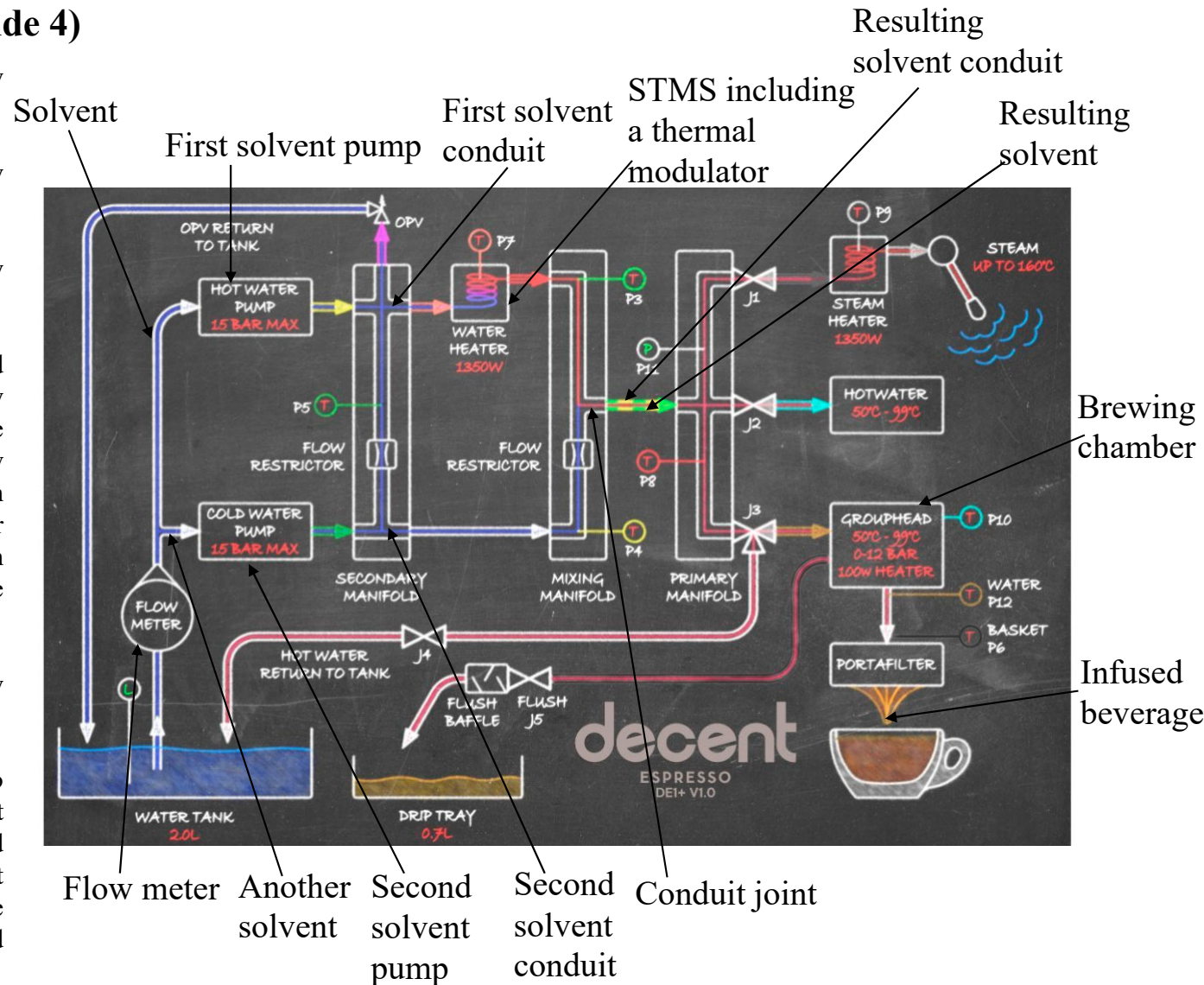
at least one solvent flow meter communicatively coupled to the first and second solvent pumps.

3. The infused beverage brewing assembly according to claim 2, wherein:

the electronic controller is communicatively coupled to the at least one solvent flow meter and operably configured to receive an electronic signal from the at least one solvent flow meter indicative of a flow rate and to modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter [see slides #s 3 and 5].

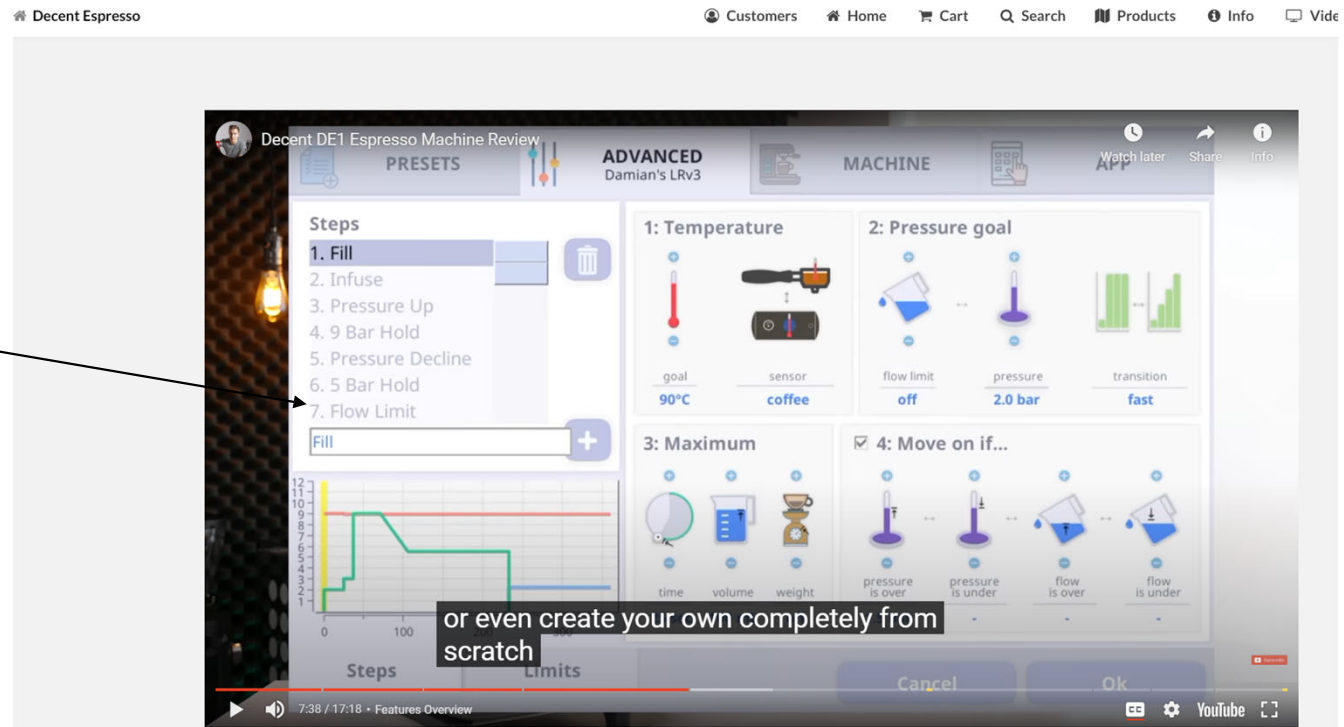
4. The infused beverage brewing assembly according to claim 3, wherein:

the electronic controller is operably configured to dynamically modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter [see slides #s 3 and 5].



Claim Chart for the 524 Patent (Slide 5)

electronic controller is operably configured to dynamically modulate the flow of the solvent based on the flow rate (including “flow limit”) ascertainable by the flow meter



<https://decentespresso.com/overview>

Claim Chart for the 524 Patent (Slide 6)

5. The infused beverage brewing assembly according to claim 1, wherein the solvent temperature modulation system further comprises:

a thermal modulator in fluid communication with the first solvent conduit and a thermal modulator in fluid communication with the second solvent conduit, each of the thermal modulators operably configured to thermally modulate the solvent and the another solvent disposed within the first and second solvent conduits, respectively, to a raised temperature higher and different than a temperature of the solvent and the another solvent upstream of the thermal modulators.

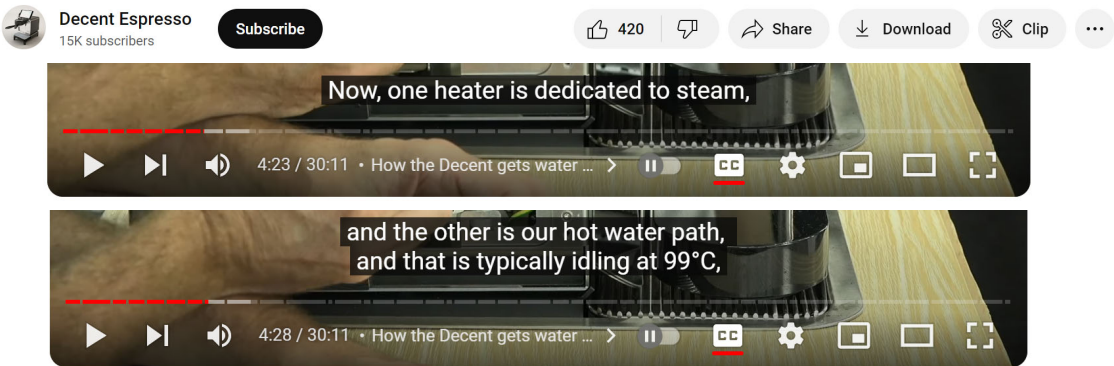
6. The infused beverage brewing assembly according to claim 5, wherein:

the electronic controller is communicatively coupled to the thermal modulator in fluid communication with the first solvent conduit and the thermal modulator in fluid communication with the second solvent conduit and the electronic controller is operably configured to dynamically modulate the temperature of the solvent in the first solvent conduit and the another solvent in the second solvent conduit [see slide #3].

Continued on Slide # 7



Decent Inside: how our espresso machine works



<https://www.youtube.com/watch?v=9v6De11M0k4>

Claim Chart for the 524 Patent (Slide 7)

5. The infused beverage brewing assembly according to claim 1, wherein the solvent temperature modulation system further comprises:

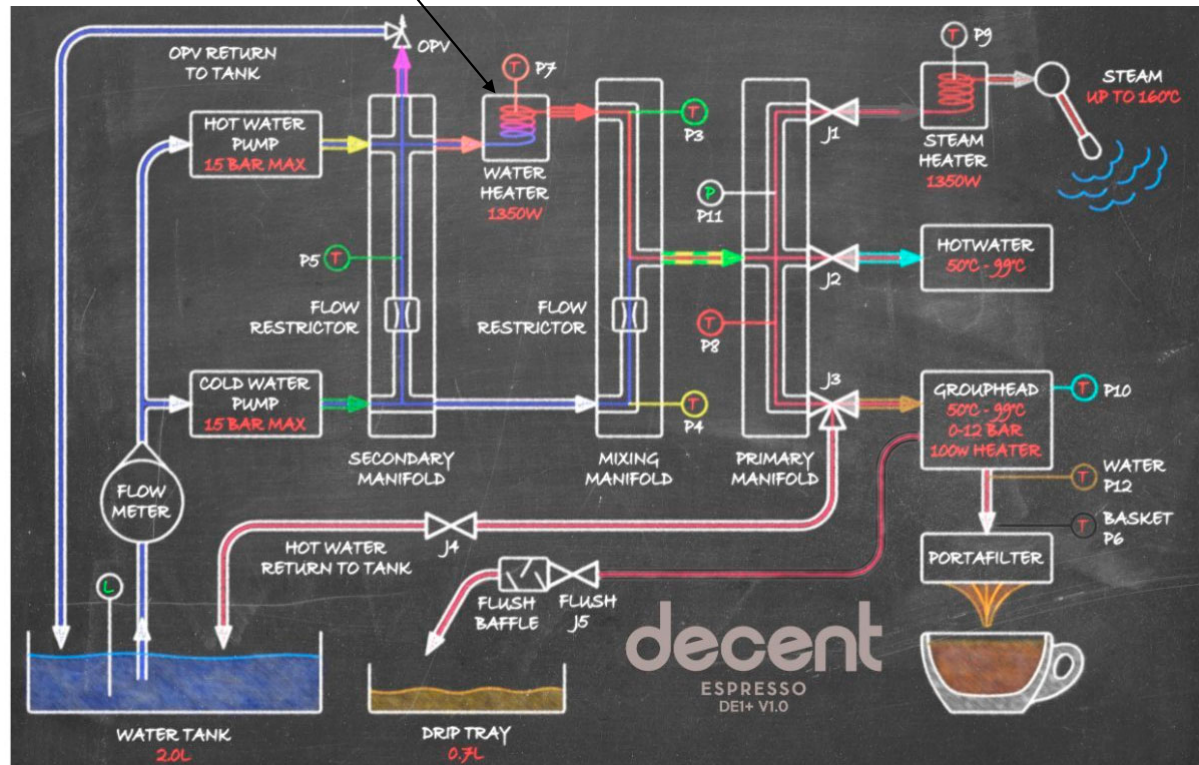
a thermal modulator in fluid communication with the first solvent conduit and a thermal modulator in fluid communication with the second solvent conduit, each of the thermal modulators operably configured to thermally modulate the solvent and the another solvent disposed within the first and second solvent conduits, respectively, to a raised temperature higher and different than a temperature of the solvent and the another solvent upstream of the thermal modulators.

6. The infused beverage brewing assembly according to claim 5, wherein:

the electronic controller is communicatively coupled to the thermal modulator in fluid communication with the first solvent conduit and the thermal modulator in fluid communication with the second solvent conduit and the electronic controller is operably configured to dynamically modulate the temperature of the solvent in the first solvent conduit and the another solvent in the second solvent conduit [see slide #3].

Continued on Slide # 7

This thermal modulator is acting as an equivalent structure configured to heat, or thermally modulate, the first solvent and the second solvent



<https://www.youtube.com/watch?v=9v6De11M0k4>

Claim Chart for the 524 Patent (Slide 8)

7. The infused beverage brewing assembly according to claim 6, further comprising:

at least one solvent flow meter communicatively coupled to the first and second solvent pumps [see slide #3].

8. The infused beverage brewing assembly according to claim 7, wherein:

the electronic controller is communicatively coupled to the at least one solvent flow meter and operably configured to receive an electronic signal from the at least one solvent flow meter indicative of a flow rate and to modulate the flow of the solvent through at least one of the first solvent pump and the another solvent through the second solvent pump based on the flow rate ascertainable from the at least one solvent flow meter [see slide #3].

Claim Chart for the 524 Patent (Slide 9)

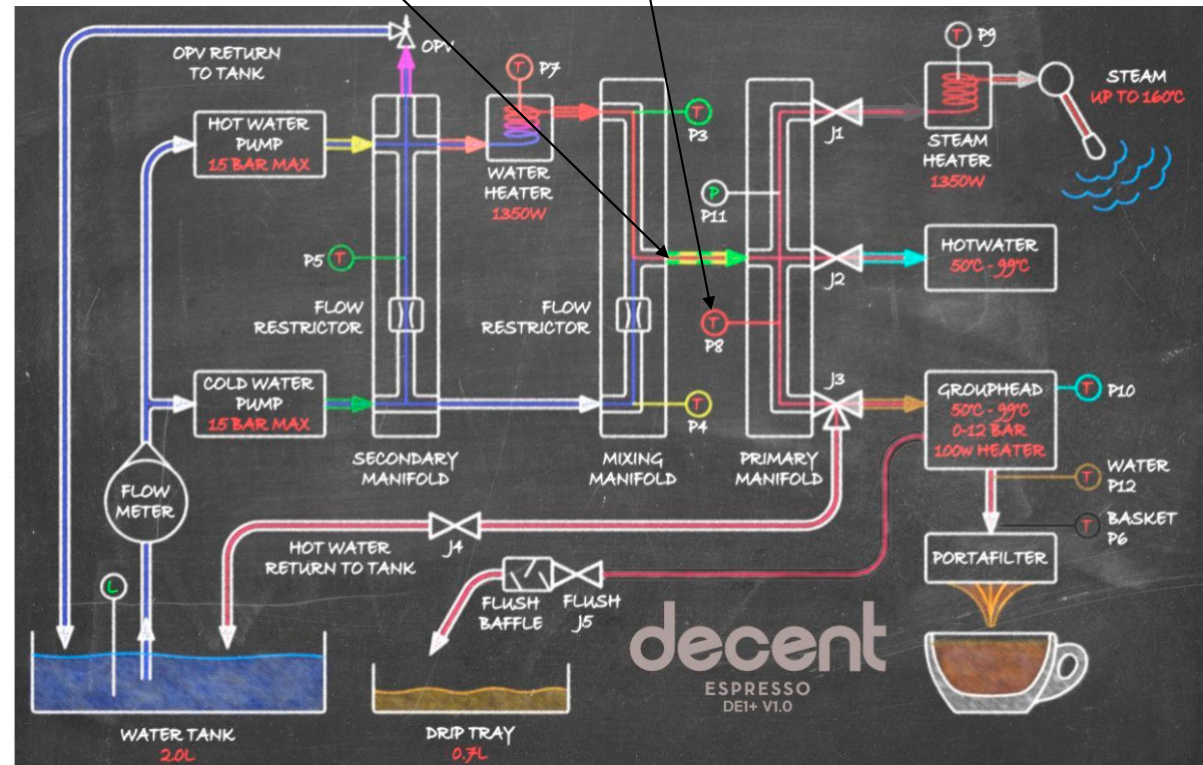
9. The infused beverage brewing assembly according to claim 8, further comprising:

a temperature measuring device communicatively coupled to the electronic controller [see slide #3] and fluidly coupled to the resulting solvent conduit, the electronic controller operably configured to dynamically thermally modulate, through at least one of the thermal modulators, at least one of the solvent and the another solvent disposed within the first and second solvent conduits, respectively [see slide #3].

10. The infused beverage brewing assembly according to claim 1, further comprising:

a temperature measuring device communicatively coupled to the electronic controller [see slide #3] and fluidly coupled to the resulting solvent conduit, the electronic controller operably configured to dynamically thermally modulate, through the at least one thermal modulator, the solvent disposed within the first solvent conduit [see slide #3].

Resulting solvent conduit Temperature measuring device



Claim Chart for the 524 Patent (Slide 10)

11. The infused beverage brewing assembly according to claim 10, wherein:

the electronic controller is operably configured to receive a desired temperature for the resulting temperature in the brewing chamber and a desired flow rate for the resulting solvent in the brewing chamber [see slide #3].

12. The infused beverage brewing assembly according to claim 11, wherein:

the electronic controller operably configured to dynamically thermally modulate, through the at least one thermal modulator, the solvent disposed within the first solvent conduit until the resulting temperature in the brewing chamber reaches the desired temperature for the resulting temperature in the brewing chamber.

