

CLAIM CHART

US Patent 10,495,374

Priority Date: April 25, 2014

Claim 9

Apparatus comprising:

MicroChill Features

MicroChill
Smart Stop - Internal Smoke Sensor

Reduce bad evacuations and calls to the fire department with our Internal Smoke Sensor.

ENERGYGUIDE
124
115

Tamper-Resistant Strap (E.R. Certified) Ensures proper use of MicroChill designs.

Cabinet Features
Black Textured Finish
Low Profile Recessed Handles
Reversible Door Hinges
5/6" Power Cord

199 kWh
199 kWh/year (est.)

Dual USB PORT
2.0 Amp 2.0 Amp
USB CHARGING PORTS

Free up outlets and charge your phones, blue-tooth speakers and many other devices with a Dual USB Ports.

-Interior Dimensions-
Oven Capacity: 0.8 cu. ft.
-Interior Volume-
3.2 cu. ft.
Fridge Volume: 2.3 cu. ft.
Freezer Volume: 90 cu. ft.
Exterior Dimensions
Height: 44 5/8"
Width: 18 9/16"
Width with door open 18 3/4"
Depth: 19 3/8"
Depth with door open 90°: 35 1/4"

712-226-3250 www.collegeproducts.com sales@collegeproducts.com

-MICROWAVE FEATURES-
Dual USB Charging Station
2 - 2.0 Amp Ports
Internal Smoke Sensor
Electronic Control Panel
One Touch Cooking Programs
Kitchen Timer
-Electrical Requirements-
Power: 115V/60 Hz
Start-Up Amps: 2.56
Running Amps: 0.76
Energy kWh/year: 199

-MICROCHILL FEATURES-
-Refrigerator Features-
1 Adjustable Glass Shelf
1 Glass Crisper Shelf
2 Door Shelves
2-Liter Bottle Storage
1 In-Door Can Rack
Clear Crisper Drawer
Temperature Control
Automatic Defrost
Interior Light
Chill White Interior

-Freezer Features-
True 0 degree freezer
Manual Defrost
1 Ice Cube Tray
-Electrical Requirements-
Power: 120V/60 Hz
Power Output, Cook: 700 watts
Start-Up Amps: 8.5

Cycle-Power Free Bridge when Microwave is in use to conserve energy and keep temperature. Power is restored to fridge when microwave door is open 10% completed bottle is open.

MicroChill

3.2 cu. ft. Dual USB Port MicroChill with Internal Smoke Sensor

www.collegeproducts.com (712) 226-3250

199 kWh
199 kWh/year (est.)

Signature Features
Dual USB Charging Station
2 - 2.0 Amp Ports
Internal Smoke Sensor
Electronic Control Panel
One Touch Cooking Programs
Kitchen Timer
5/6" Power Cord
Available Color: Black

-REFRIGERATOR FEATURES-
1 Adjustable Glass Shelf
1 Glass Crisper Shelf
2 Door Shelves
2-Liter Bottle Storage
1 In-Door Can Rack
Clear Crisper Drawer
Temperature Control
Automatic Defrost
Interior Light

-FREEZER FEATURES-
True 0 degree freezer
Manual Defrost
1 Ice Cube Tray

-CABINET FEATURES-
Textured Finish
Low Profile Recessed Handles
Reversible Door Hinges
5/6" Power Cord
Available Colors: Black

-ELECTRICAL REQUIREMENTS-
Power: 115V/60 Hz
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-ELECTRICAL REQUIREMENTS-
Power: 120V/60 Hz
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EXTENSION DIMENSIONS
Height: 44 5/8"
Width: 18 9/16"
Width with door open 18 3/4"
Depth: 19 3/8"
Depth with door open 90°: 35 1/4"

-INTERIOR VOLUME-
3.2 cu. ft.
Fridge Volume: 2.3 cu. ft.
Freezer Volume: 90 cu. ft.

-INTERIOR DIMENSIONS-
Oven Capacity: 0.8 cu. ft.

Cycle-Power Free Bridge when Microwave is in use to conserve energy and keep temperature. Power is restored to fridge when microwave door is open 10% completed bottle is open.

(Source: MicroChill advertising literature – unless otherwise indicated)

a microwave oven configured to be connected to a source of electrical power

The microwave oven of the MicroChill is configured to be connected to a source of electrical power.



Power cord to connect microwave oven to power outlet.

“The combination appliance has an outlet on the back of the microwave where the fridge is plugged in, making the microwave the only part of the unit that has to be plugged into the wall.” (Source: College Products website www.collegeproducts.com/microchill/ 6/15/2022)

and

The MicroChill has a control circuit.

having a control circuit,

The “MicroChill Combination Appliance has internal power cycling circuitry.” (Source: College Products Response to RFP: S21-0110 University of Wisconsin – Milwaukee dated April 19, 2021, page 3)

wherein the control circuit is configured to control operation of the microwave oven;

The control circuit of the MicroChill is configured to control operation of the microwave oven.

The “MicroChill Combination Appliance has internal power cycling circuitry. Cycles power from fridge while microwave is in use so only one appliance runs at a time.” (Source: College Products Response to RFP: S21-0110 University of Wisconsin – Milwaukee dated April 19, 2021, page 3)

a smoke sensor,

The MicroChill includes a smoke sensor.



wherein the smoke sensor is positioned in an air passage that extends between a cooking area inside the microwave oven and air outside the microwave oven,

The smoke sensor of the MicroChill is positioned in an air passage that extends between a cooking area inside the microwave oven and air outside the microwave oven.



“Oven contains internal sensor that shuts off power to microwave when smoke is sensed.”
(Source: College Products MicroChill Proposal to Clemson University RFP: SB#96090635 dated January 16, 2018, page 4)

wherein the smoke sensor is in operative connection with the control circuit,	The smoke sensor of the MicroChill is in operative connection with the control circuit. “Microwave with Internal Smoke Sensor Circuitry – Shuts off power to the microwave at the first detection of smoke and alerts the user.” (Source: College Products MicroChill Proposal to Clemson University RFP: SB#96090635 dated January 16, 2018, page 7)
wherein the smoke sensor is configured to cause cooking power to the microwave oven to be withdrawn prior to a set end time of a current cooking session upon the smoke sensor sensing smoke indicative of a dangerous condition;	The Smart Stop smoke sensor of the MicroChill is configured to cause cooking power to the microwave oven to be withdrawn prior to a set end time of a current cooking session upon the smoke sensor sensing smoke indicative of a dangerous condition. “Microwave with Internal Smoke Sensor Circuitry – Shuts off power to the microwave at the first detection of smoke and alerts the user.” (Source: College Products MicroChill Proposal to Clemson University RFP: SB#96090635 dated January 16, 2018, page 7)
and	
wherein the smoke sensor is configured to be reset after ending the current cooking session prior to the set end time based on sensing the smoke indicative of the dangerous condition,	The smoke sensor of the MicroChill is configured to be reset after ending the current cooking session prior to the set end time based on sensing the smoke indicative of the dangerous condition. “Oven contains internal sensor that shuts off power to microwave when smoke is sensed and has a reset feature.” (Source: College Products MicroChill Proposal to Clemson University RFP: SB#96090635 dated January 16, 2018, page 4)
to enable the microwave oven to receive cooking power in a next subsequent cooking session responsive at least in part to the smoke sensor no longer sensing the smoke indicative of the dangerous condition.	The microwave oven of the MicroChill is enabled to receive cooking power in a next subsequent cooking session responsive to the smoke sensor no longer sensing the smoke indicative of the dangerous condition. “Oven contains internal sensor that shuts off power to microwave when smoke is sensed and has a reset feature.” (Source: College Products MicroChill Proposal to Clemson University RFP: SB#96090635 dated January 16, 2018, page 4)