

Title (en)
Tumble drying apparatus.

Title (de)
Trommeltrockenvorrichtung.

Title (fr)
Dispositif de séchage à tambour.

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Application
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Abstract (en)
The invention relates to apparatus for removing moisture from articles. A housing (10) rotatably supports a hollow drum (12) on substantially a horizontal axis whereby articles to be dried tumble around the interior of the drum when the latter is rotated. A microwave power mechanism (46) such as a magnetron, is provided in a door (40) for the housing and has an output portion thereof directed into the drum for heating and drying articles tumbling in the drum. An output portion (78) of the microwave power mechanism has a dielectric dome-like shield (84) mounted over it for deflecting tumbling articles away from such output. A forced air system (54) is provided for ventilating the interior of the drum, and such system includes a passageway extending adjacent to the power mechanism (46) to that such ventilating air also cools the power means. The present mechanism is associated with an electrical circuit having door interlocks, door panel interlocks, and other interlocks, as well as a magnetically operated door interlock that is substantially foolproof so that power from the microwave power mechanism is positively de-energised when the door is open. Circuitry is provided for the microwave power mechanism to protect it from excess average and peak reflected power. The circuitry also includes a humidity sensor to prevent excessive drying.

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IPC 8 full level
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