CLAIMS

1. A freestanding article of furniture comprising:

a) a plurality of structures having surfaces chosen from the group consisting of vertical, horizontal, angled and having horizontal and vertical components;

b) at least one of said structures consisting of at least one panel having (i) a said surface and comprising a first veneer with a pattern of micro-perforations extending completely therethrough, (ii) a sound porous core abutted behind said first veneer, and (iii) a second veneer abutted behind said sound porous core and having a pattern of micro-perforations extending therethrough, said micro-perforations of said first veneer acoustically connected to porous aspects of said sound porous core and to said micro-perforations of said second veneer, porous aspects of said sound porous core solely consist of a pattern of a plurality of holes larger in diameter than said micro-perforations, said holes extending from a flat front surface of said core through to a rear surface of said core, said holes being isolated from one another;

c) said micro-perforations having an average diameter within a range of from 0.25 to less than 0.65 mm;

d) at least one second veneer facing a storage space defined between said plurality of structures, said freestanding article of furniture configured to be located within a room whereby sounds within said room defined by soundwaves impinging upon said at least one panel are attenuated when they enter said micro-perforations of said first veneer; and

e) said at least one panel exhibiting enhanced sound absorption measured by increased Sabin values and reduced sound reverberation time as compared to a conventional furniture panel.

2. The article of furniture of Claim 1, wherein said micro-perforations are generally cylindrical.

3. The article of furniture of Claim 1, wherein said micro-perforations are generally frustoconical.

4. The article of furniture of Claim 3, wherein said micro-perforations have a larger diameter at a front surface of a structure having said micro-perforations.

5. The article of furniture of Claim 1, wherein said micro-perforations extend into structures having vertical surfaces.

6. The article of furniture of Claim 1, comprising a desk.

7. The article of furniture of Claim 6, wherein said desk has a horizontal structure having a horizontal flat surface.

8. The article of furniture of Claim 6, wherein said desk includes at least one storage drawer having a front vertical closure structure having a flat front surface, said front vertical closure structure having a plurality of micro-perforations extending therethrough.

9. The article of furniture of Claim 6, wherein said desk includes a storage compartment with a front opening closed by a vertical door having a flat front surface, said door having a plurality of micro-perforations extending therethrough.

10. The article of furniture of Claim 7, wherein said horizontal structure is supported by a wide vertical leg with micro-perforations extending therethrough.

11. The article of furniture of Claim 9, wherein said vertical door is pivotable about vertically disposed hinges.

12. The article of furniture of Claim 9, wherein said storage compartment comprises a plurality of storage compartments, each closed by a door having a vertical surface, each door having a plurality of micro-perforations extending therethrough.

13. The article of furniture of Claim 1, wherein said micro-perforations increase sound absorption of said article of furniture by up to 4 Sabins within a range of sound frequencies of 100 Hz to 5,000 Hz.

14. The article of furniture of Claim 12, wherein said micro-perforations are generally cylindrical.

15. The article of furniture of Claim 12, wherein said micro-perforations are generally frustoconical.

16. The article of furniture of Claim 15, wherein said micro-perforations have a larger diameter at a front surface of a structure having said micro-perforations.

17. A sound absorbing freestanding desk comprising:

a) a plurality of structures having vertical and horizontal surfaces, said horizontal surfaces including a writing surface;

b) at least one of said structures consisting of at least one panel having (i) a said vertical surface and comprising a front veneer with a pattern of micro-perforations extending completely through vertical surfaces thereof, (ii) a sound porous core abutted behind said front veneer, and (iii) a rear veneer abutted behind said sound porous core and having a pattern of micro-perforations extending therethrough, said micro-perforations of said front veneer acoustically connected to porous aspects of said sound porous core and to said micro-perforations of said rear veneer, porous aspects of said sound porous core solely consist of a

pattern of a plurality of holes larger in diameter than said micro-perforations, said holes extending from a flat front surface of said core through to a rear surface of said core, said holes being isolated from one another;

c) said structures with vertical surfaces chosen from the group consisting of one or more of a door, a drawer front, and a support leg;

d) said micro-perforations having an average diameter within a range of from 0.25 to less than 0.65 mm;

e) at least one rear veneer facing a storage space defined between said plurality of structures, said freestanding desk configured to be located within a room whereby sounds within said room defined by soundwaves impinging upon said at least one panel are attenuated when they enter said micro-perforations of said front veneer; and

f) said at least one panel exhibiting enhanced sound absorption measured by increased Sabin values and reduced sound reverberation time as compared to a conventional desk panel.

18. The desk of Claim 17, wherein said micro-perforations are chosen from the group consisting of generally cylindrical and frustoconical.

19. The desk of Claim 17, wherein said desk includes at least one storage drawer having a front vertical closure structure having a flat front surface, said front vertical closure structure having a plurality of micro-perforations extending therethrough.

20. The desk of Claim 17, wherein said micro-perforations increase sound absorption of said desk by up to 4 Sabins within a range of sound frequencies of 100 Hz to 5,000 Hz.