

Claims

1. A flush assembly for a plumbing fixture, the assembly comprising a sprayer body, wherein

the sprayer body comprises a bottom wall, a front wall, and a rear wall,
the sprayer body is configured to be in fluid communication with a water source,
the sprayer body bottom wall comprises a first outlet through which flush water is delivered during a flush cycle, and

the sprayer body is configured to couple to a portion of a wall of the plumbing fixture, and wherein the sprayer body comprises a shape configured to substantially conform to a shape of the plumbing fixture wall portion.
2. The flush assembly according to claim 1, wherein the sprayer body rear wall comprises a curved convex shape configured to substantially conform to a curved concave shape of the plumbing fixture wall portion.
3. The flush assembly according to claim 1, wherein the first outlet comprises a shape substantially corresponding to the sprayer body shape.
4. The flush assembly according to claim 1, wherein the sprayer body substantially comprises an arc shape.
5. The flush assembly according to claim 1, wherein the first outlet is substantially centered along a length of the bottom wall, and has a width of from about 0.5 mm to about 2.5 mm, and a length of from about 40 mm to about 90 mm.
6. The flush assembly according to claim 1, wherein a sprayer body top is coupled to a gasket, and wherein the bottom wall, front wall, rear wall, and gasket define a sprayer body chamber configured to be in fluid communication with the water source and with the first outlet.
7. The flush assembly according to claim 1, wherein the body bottom wall comprises a second outlet and a third outlet positioned on opposing sides of the first outlet through which flush water is delivered during a flush cycle.

8. The flush assembly according to claim 7, wherein the second outlet and third outlet are positioned on opposing sides of the first outlet, and wherein the second and third outlets are substantially equidistant from the first outlet.
9. The flush assembly according to claim 7, wherein the sprayer body comprises an arc shape, and wherein the first, second, and third outlets comprise an arc shape substantially corresponding to the sprayer body shape.
10. The flush assembly according to claim 9, wherein the second and third outlets are substantially aligned with the first outlet along the sprayer body bottom wall.
11. The flush assembly according to claim 7, wherein the first outlet has an area that is from about 3 times to about 7 times larger than an area of the second or third outlet.
12. The flush assembly according to claim 7, wherein the second and third outlets have a width of from about 0.5 mm to about 2.5 mm, and a length of from about 6 mm to about 18 mm.
13. The flush assembly according to claim 7, comprising a first baffle and a second baffle positioned on opposing sides of the first outlet, the baffles configured to modulate fluid flow through the outlets during a flush cycle.
14. The flush assembly according to claim 1, wherein the sprayer body is coupled to a water pressure adjustment screw.
15. A plumbing fixture comprising a flush assembly according to any of claims 1 to 14, wherein the flush assembly is coupled to a portion of a wall of the plumbing fixture.
16. The plumbing fixture according to claim 15, wherein the plumbing fixture is a urinal comprising a wall, a basin, and a drain.
17. The plumbing fixture according to claim 16, wherein during a flush cycle, flush water forms a continuous flow profile on the urinal wall and surrounding the drain.

18. The plumbing fixture according to claim 17, wherein the continuous flow profile comprises a total area of from 1000 cm² to about 1600 cm².
19. The plumbing fixture according to claim 17, wherein the continuous flow profile is independent of a flush volume during a flush cycle.
20. A flush assembly sprayer body according to any of claims 1 to 14.