provides an opportunity to obtain a spray gun having a simplified, lower weight, and aerodynamically efficient system architecture compared with spray guns in the prior art.

In one aspect, a nozzle assembly for a spraying apparatus is provided. The nozzle assembly comprises: a fluid side wall defining a fluid passageway that extends longitudinally along a fluid axis and terminates in a fluid aperture; an air cap side wall extending around the fluid side wall and partially defining an air passageway that terminates in an atomizing aperture adjacent the fluid aperture; a pair of diametrically opposed air horns protruding past the fluid aperture from the air cap side wall and defining respective air horn cavities in communication with the air passageway, each air horn having an external surface and a fan control aperture extending along a fan control axis through the external surface to flow air against a fluid stream discharged from the fluid aperture, wherein the fan control aperture has an aperture shape defined along a reference plane perpendicular to the fan control axis; and for each air horn, a baffle coupled to the air cap side wall and projecting into a volumetric shape, the volumetric shape defined by extruding the aperture shape outwardly along the fan control axis.

In another aspect, a nozzle assembly for a spraying apparatus is provided, comprising: a fluid side wall defining a fluid passageway that extends longitudinally along a fluid axis and terminates in a fluid aperture; an air cap side wall extending around the fluid side wall and partially defining a first air passageway that terminates in an atomizing aperture adjacent the fluid aperture; a pair of diametrically opposed air horns protruding past the fluid aperture from the air cap side wall and defining respective air horn cavities in communication with a second air passageway, each air horn having an external surface and a fan control aperture extending along a fan control axis through the external surface to flow air against a fluid stream discharged from the fluid aperture, wherein each fan control aperture has an aperture shape defined along a reference plane perpendicular to the fan control axis; and an annular baffle rotatably coupled to the air cap side wall and projecting into a pair of volumetric shapes, each volumetric shape defined by extruding each aperture shape outwardly along its respective fan control axis.

In still another aspect, a method of adjusting a spray pattern of a spraying apparatus having a fluid aperture and a pair of diametrically opposed air horns projecting past the fluid aperture, each air horn including a fan control aperture, is provided, the method comprising: providing a pair of baffles extending outwardly from the spraying apparatus adjacent to respective air