

ABSTRACT

FOAMER NOZZLE

A foamer nozzle (20) for use with a trigger operated pump sprayer of the type utilized with a foamable liquid optimises the foaming action by maximising the amount of mixing of the spray particles in the plume emitted from the discharge orifice of the sprayer with aspirated air. Such optimisation is achieved through use of opposing pairs of individual separate and spaced apart looped ribs (80) lying in a common plane substantially parallel to and downstream from the wall containing the discharge orifice, with each of the ribs having a tip (80') and a pair of spaced legs (80'') which define an opening therebetween. The ribs are preferably tear-drop shaped in cross-section, with the rear edges thereof being substantially V-shaped for impingement by the spray plume. In a further embodiment, an additional set of ribs are disposed in a member which is press-fit within an annular wall downstream from the first set, such that the additional set of ribs is substantially parallel to the first set, but angularly offset by about 45 degrees with respect thereto.

Figs. 1 & 4