

What is claimed is:

1. A grit blasting device for cleaning tubes mounted perpendicular to top and bottom tubesheets, comprising:
 - 5 a positioning frame;
 - a grit blast nozzle mounted on said positioning frame and projecting outwardly from said positioning frame, said grit blast nozzle defining a longitudinal axis;
 - a plurality of stop pins mounted on said positioning frame and projecting outwardly from said positioning frame, said stop pins having distal ends which define
 - 10 an imaginary plane; wherein the grit blast nozzle is mounted on said positioning frame such that the longitudinal axis of said grit blast nozzle is defined relative to the imaginary plane defined by the distal ends of said stop pins.
2. A grit blasting device for cleaning tubes mounted perpendicular to top and
- 15 bottom tubesheets as recited in claim 1, wherein the longitudinal axis of said grit blast nozzle is perpendicular to the imaginary plane defined by the distal ends of said stop pins.
3. A grit blasting device for cleaning tubes mounted perpendicular to top and
- 20 bottom tubesheets as recited in claim 2, and further comprising a control arrangement for controlling the flow of pressurized, grit-laden air to said grit blast nozzle, said control arrangement including at least one pneumatic valve and at least one pressure switch.
- 25 4. A grit blasting device for cleaning tubes mounted perpendicular to top and bottom tubesheets as recited in claim 3, and further comprising a base which supports said positioning frame, and a linear actuator which moves said positioning frame away from and toward said base.
- 30 5. A grit blasting device for cleaning tubes mounted perpendicular to top and bottom tubesheets as recited in claim 4, wherein said linear actuator is a pneumatic air slide.

6. A grit blasting device for cleaning tubes mounted perpendicular to top and bottom tubesheets as recited in claim 4, wherein said linear actuator defines a fully extended position and a retracted position.

5

7. A grit blasting device for cleaning tubes mounted perpendicular to top and bottom tubesheets as recited in claim 6, wherein, when said linear actuator is in the fully extended position, the grit blast nozzle is spaced away from the imaginary plane so as to leave a gap between the grit blast nozzle and a tube sheet when the

10 imaginary plane is coplanar with the tube sheet.