

DEFENSIVE PUBLICATION

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CLEANING ELEMENT

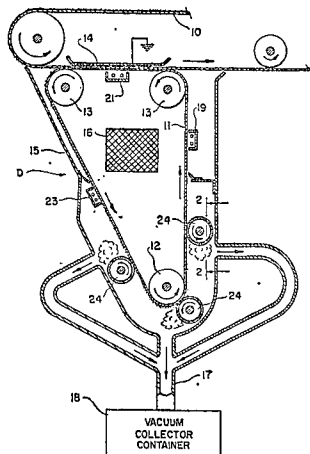
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2 Sheets Drawing. 8 Pages Specification



A rotatable cleaning element such as a brush or beater bar for removing residual toner particles from a cleaning web is provided. The removed toner particles create a cloud within a housing through which the cleaning web moves along an endless path. A vacuum is applied to the housing to create a moving airstream for removing the cloud of toner particles from the housing. This cleaning brush comprises a cylindrical roller having a raised cleaning surface thereon made of material in the form of a right-hand helix extending from a midpoint on the surface of the roller toward one end thereof and a left-hand helix extending from a midpoint toward the opposite end of the roller. This material can be a nap or brush material of well known construction for rubbing or beating against the cleaning web or a raised rib or lobe on the roller. The cleaning brush is rotated in a direction so that the right and left-hand helical configuration causes the cloud of toner particles to be directed toward the center of the cleaning web so that toner does not tend to collect on side walls of the housing.

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2 Sheets-Sheet 1

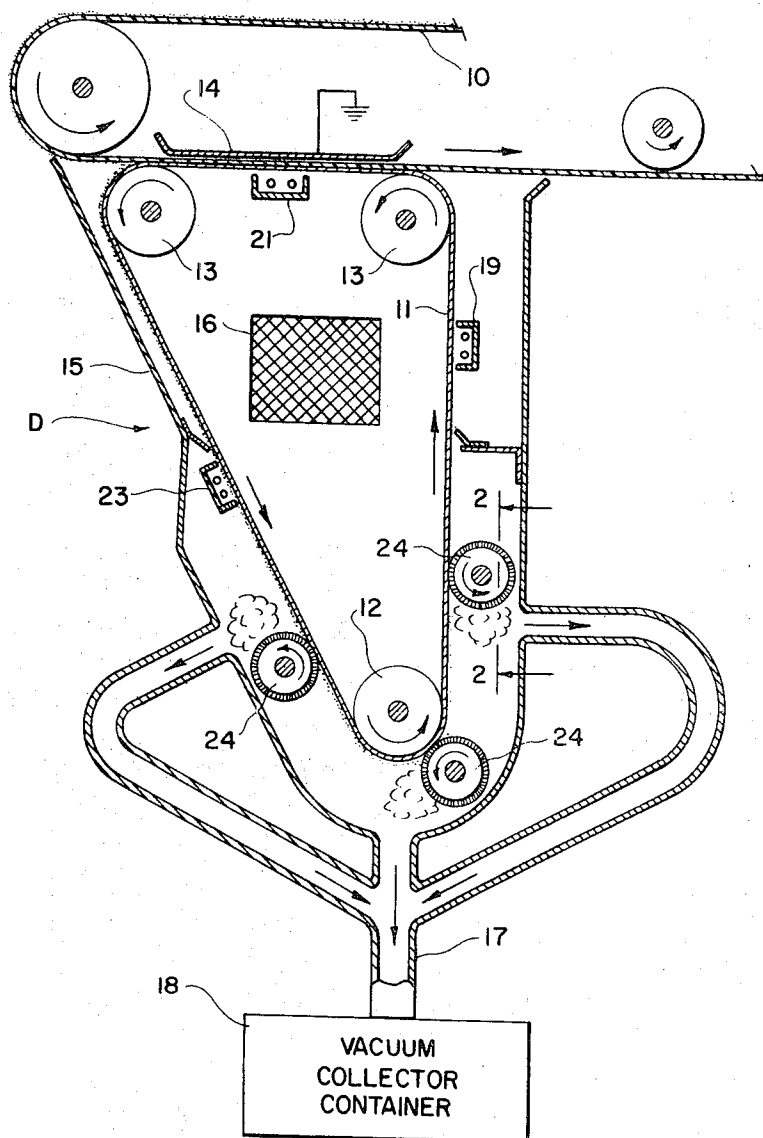


FIG. 1

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