

In some instances depending upon the nature of the product being conveyed and the treatment to which it is being subjected, it is sometimes found advantageous to have the spiral line *b* of jets 7^b extending in the same direction as the conveyer blade 6 an equal distance therefrom throughout the length of the shaft, such modified form being clearly illustrated in Fig. 3 of the drawing; and while I have preferably shown the line of jets 7 as extending in a spiral line, the direction of such line depending upon the particular requirements, it is to be understood that I am not limiting myself to such particular arrangement and that the number and arrangement of jets may be varied without departing from the spirit of my invention.

From the above description it would seem to be clear that the line of projecting jets during operation of the conveyer effects a further agitation and a loosening of the product adjacent such jets thereby effecting a more thorough and even distribution throughout the mass of the elements with which it is being treated than has heretofore been possible.

From the above it is apparent that I have designed a spray conveyer adapted to expeditiously and efficiently treat the product being conveyed with water, steam, liquids or air depending upon the particular requirements, one constructed of few parts, simple in design, manufacturable at a reasonable cost and efficient for the purposes intended.

Although in practice I have found that the form of my invention illustrated in the accompanying drawing and referred to in the above description as the preferred embodiment, is the most efficient and practical; yet realizing the conditions will necessarily vary, I desire to emphasize that various minor changes in details of construction, proportion and arrangement of parts, may be resorted to within the scope of the appended claim without departing from or sacrificing any of the principles of this invention.

Having thus described my invention, what I desire protected by Letters Patent is as set forth in the following claim:

A conveyer comprising a shaft hollow throughout its length, a series of hollow jet members arranged in a spiral line about said shaft, communicating with the interior thereof and constituting lug elements, a helicoid conveyer blade mounted on said shaft in a spiral direction opposite to that of said lug elements, whereby continuous treatment of said material through said shaft and jet members and agitation and mixing thereof during its travel throughout the length of the conveyer and across its path of travel is effected.

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