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PATENTED JUNE 4, 1907.

W. A. MILNE.

TUBULAR CONVEYER FOR PEAT COLLECTING MACHINES.

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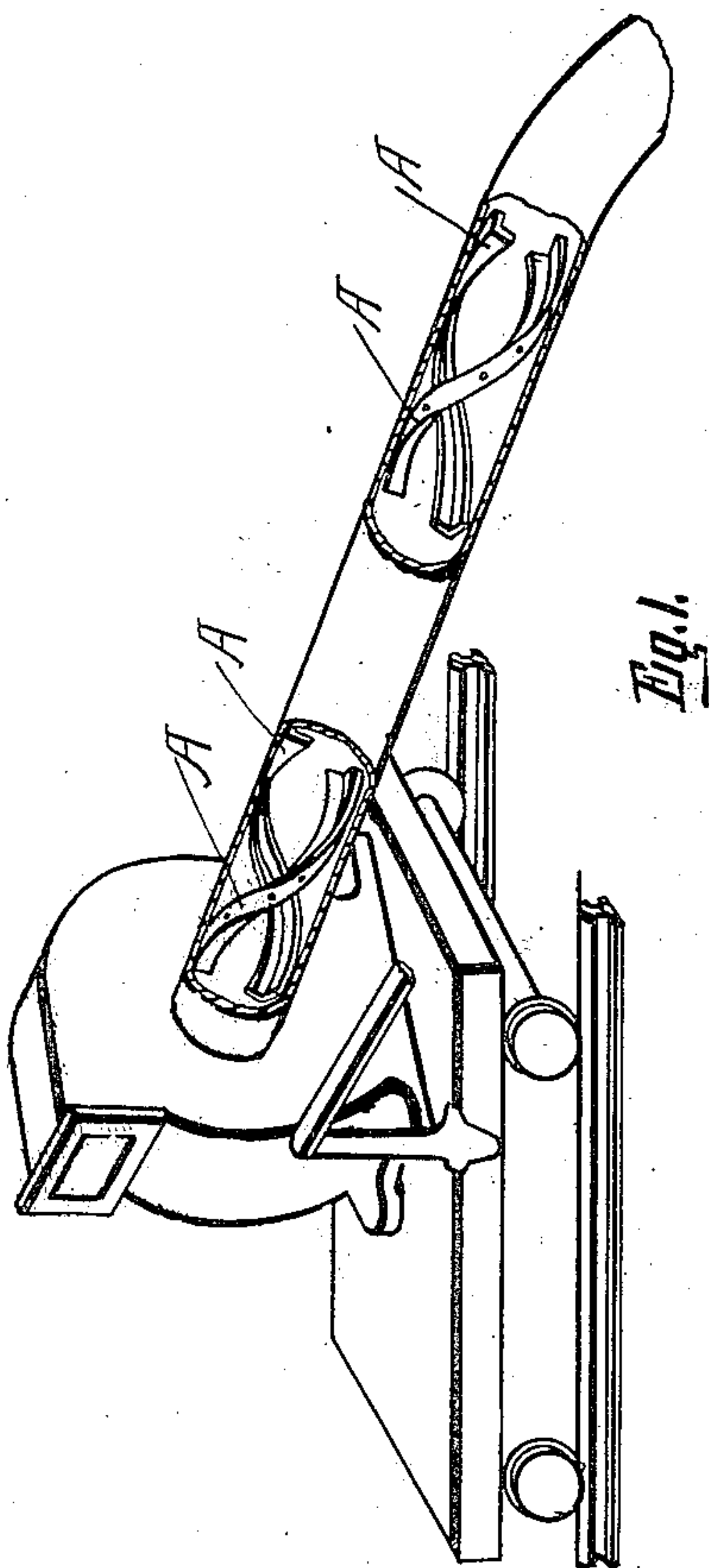


Fig. 1.

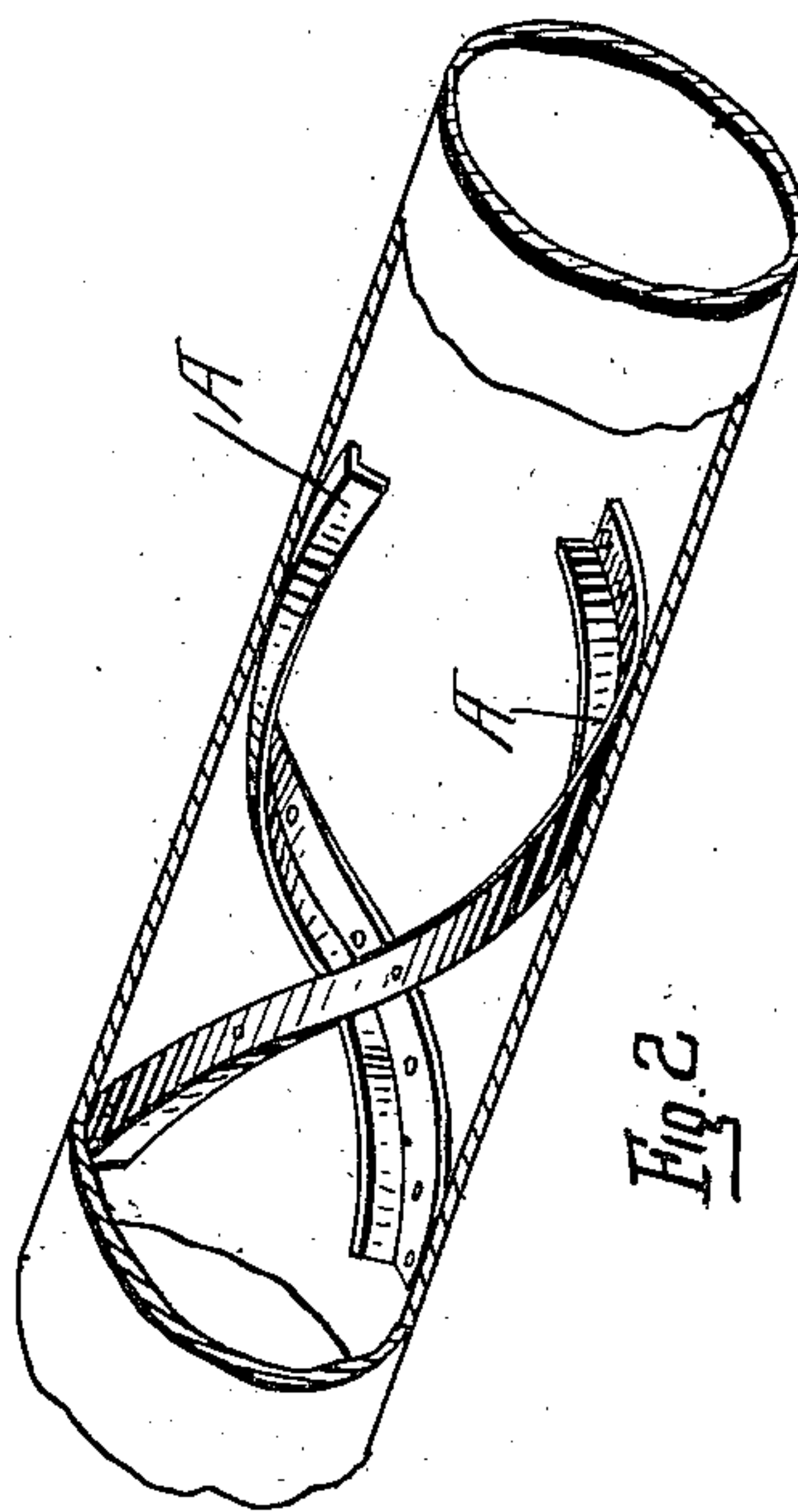


Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

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TUBULAR CONVEYER FOR PEAT-COLLECTING MACHINES.

No. 855,651.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed September 24, 1906. Serial No. 336,062.

To all whom it may concern:

Be it known that I, WILLIAM ATKINSON MILNE, of the village of Brown's Corners, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Tubular Conveyers for Peat-Collecting Machines, of which the following is the specification.

My invention relates to improvements in tubular conveyers for peat collecting machines patented to me in the United States of America under Number 782,260 on the 14th. February, 1905, and the object of the present invention is to devise a means whereby the lodging of peat in the lower internal periphery of the tube may be obviated, and thus insure the complete discharge of such peat continuously and it consists essentially of one or more convolute or spiral wings secured to the interior of the tube preferably in sets of two located opposite to each other and having preferably the thread and pitch as hereinafter more particularly explained.

Figure 1, is a perspective view of portion of my peat collecting machine showing the improvements in the tube thereof. Fig. 2, is an enlarged perspective detail of portion of the tube showing my improvement.

In the drawings like letters of reference indicate corresponding parts in each figure.

A A are two convolute or spiral wings of an annular cross section, the base of which is made to conform to the interior of the tube and is secured thereto, and the opposite side of which extends into the tube and forms a thread. The pitch of the thread of the spiral or convolution is preferably a long pitch and I also preferably provide two of the wings located opposite to each other, although one or any number I may find preferable.

I have shown in Fig. 1, two sets or pairs of spirals, but it will be understood that I may provide as many sets and at any desired distances apart in the tube as may be most conducive for the object I have in view viz. to prevent the peat from lodging in the bottom of the interior of the tube throughout its length, and thus make the discharge of such peat more difficult as well as serving to block the free discharge.

It will be seen that the discharge end of my tube is connected to a fan casing as described in my former patent hereinbefore referred to. The fan in such casing causes a

suction through the tube, thereby drawing the peat through the same and discharging it from the casing in the usual manner. It is to be noted, therefore, that my tube is stationary.

The operation is as follows: The continual suction of the air and peat therewith through the tube effected by the spiral wings serves to not only give a continuous twist or rotary motion of the air as it passes through the tube, but necessarily to the peat carried by the air as it passes through the tube and by this means the lodging of peat in the bottom of the tube is effectually prevented. Formerly without the wings the fine particles of peat would lodge or drift into the tube and as the tube was at an incline would finally fill up the tube, and thereby prevent any more peat from passing upwardly through the same. In practice I have found formerly on account of this defect the machine became practically inoperative, but by the introduction of these wings the continuous even feed of the peat is assured.

By such a device as I describe I find that the discharge of the peat is effectually facilitated.

Although I describe my invention as applied to the discharge of peat it will be understood that it may with equal facility be applied to other analogous purposes.

What I claim as my invention is:

1. In a tubular conveyer for peat collecting machines, the combination with a fan casing and fan and non-rotatable tube extending from the fan casing, of a spiral wing secured to the inner periphery of the tube in such a manner that the pitch of the spiral will be long and extend some distance along the inner periphery as and for the purpose specified.

2. In a tubular conveyer for peat collecting machines, the combination with the tube, of spiral wings L shaped in cross section, said spiral wings being oppositely secured to the inner periphery of the said tube, in such a manner that the pitch of the spiral will be long and extend some distance along the inner periphery of the said tube, substantially as described.

WILLIAM ATKINSON MILNE.

Witnesses:

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