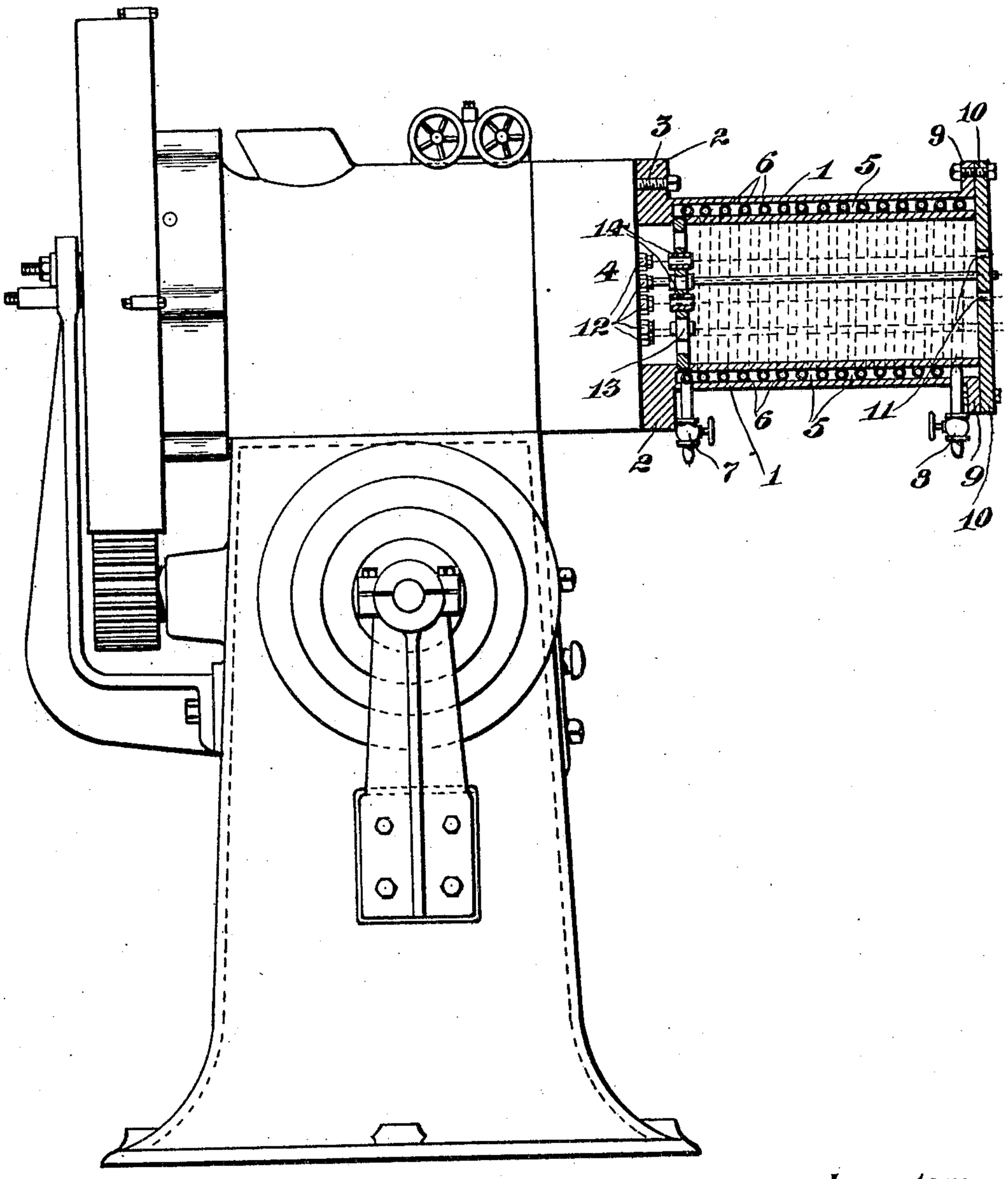
No. 849,711. PATENTED APR. 9, 1907.

T. A. AITON.

COOLING ATTACHMENT.

APPLICATION FILED SEPT. 13, 1906.



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COOLING ATTACHMENT.

No. 849,711. Specification of Letters Patent. Patented April 9, 1907.

Application filed September 13, 1905. Serial No. 278,299.

To all whom it may concern:

Be it known that I, THOMAS ARCHIBALD AITON, a citizen of the United States, and a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Cooling Attachments, of which the following is a specification.

My invention relates to cooling attachments for rubber-covering machines, and consists of the combination of parts hereinafter set forth and claimed.

In the accompanying drawing, which forms a part of this specification, the figure represents a horizontal section of the device embodying my invention.

In the drawing, 1 designates a cylindrical casing or casting having a flange 2 on one end thereof, through which are passed the bolts 3 for securing it to the one end of the head of a rubber-covering machine 4.

The casing or cylinder 1 is formed with an annular chamber 5, in which is placed a coiled tube 6, having an inlet-valve 7, whereby the ammonia or other cooling material may be passed into the coil. An outlet-valve 8 is provided at the discharge end of the coil.

On the outer end of the cylinder, secured to a flange 9 thereof, is an end plate or head 10, having the openings 11 therein, through which the covered wires are passed, secured in any suitable manner within the cylinder, and adjacent to the machine is a bridge 13, having nipples 14, through which the coated wires are passed. By this end plate and bridge the wires are supported and also guided from the machine while the covering is being cooled.

It will be seen that the device is either readily affixed to or removed from a machine of the character described and can be constructed at a small cost, while it is efficient in operation. The coated wires shown in dotted lines, which are passed through the dies 12 of the covering-machine, are also passed through the openings 11 of the head 10, so as to be supported while being cooled by the cooling material which is in the coils.

I am aware that it is old in rubber-covering machines to form the detachable head forming part of the cylinder of the wire-covering means thereof with an annular chamber which is in communication, by means of passages leading therefrom, with either a steam or water supply in the said cylinder of the machine, and such I do not claim.

Having described my invention, what I desire to claim and secure by Letters Patent is—

1. A cooling attachment for a rubber-covering machine, consisting of a hollow casing with a chamber therein, and adapted to be detachably secured to the head of a rubber-covering machine and a coiled tube in said chamber provided with inlet and outlet valves said chamber and tube being independent of said head; said parts being combined substantially as described.

2. A cooling attachment for a rubber-covering machine, consisting of a cylindrical casing having flanged ends with bolt-openings therein, and provided with an annular chamber, a coiled tube in said chamber having inlet and outlet valves, and a head secured on the outer end of said casing having openings therein adapted to correspond with the dies of the rubber-covering machine substantially as described.

3. A cooling attachment for a rubber-covering machine, consisting of a casing having an annular chamber with a coiled tube therein, a bridge secured in said chamber having nipples therein corresponding with the dies of the rubber-covering machine and an end plate on said cylinder with openings therein; said parts being combined substantially as described.

4. A cooling attachment for a rubber-covering machine, consisting of a casing having flanged ends with openings therein, a coiled tube in an annular chamber in said casing having at its ends outside of said casing inlet and outlet valves, an end plate having openings and secured to said casing and a detachable bridge secured in said casing and provided with nipples corresponding to the dies of said rubber-covering machine; said parts being combined substantially as described.

5. A cooling attachment for a rubber-covering machine consisting of a casing having an annular chamber and provided with means for securing one end thereof to the head of a rubber-covering machine, a coiled tube in said chamber having ends outside thereof provided with inlet and outlet valves respectively, a bridge at the inner end of said casing having nipples corresponding to the dies of the head of the rubber-covering machine, and a plate at the outer end of the casing having openings also corresponding with said nipples and said dies; said parts being combined substantially as described.

6. A detachable cooling attachment for a

rubber-covering machine consisting of a cylindrical casing with an annular chamber therein, having openings leading directly therefrom outside of said rubber-covering machine; a coil-tube with ends projecting through said openings and having therein inlet and outlet valves; and means connected with the ends of said casing for supporting the covered wire passing therethrough from the head of the wire-covering machine; said parts being combined substantially as described.

Signed at New York, in the county of New York and State of New York, this 9th day of September, A. D. 1905.

THOMAS ARCHIBALD AITON.

Witnesses:
B. C. SCHENK,
A. SAVAGE.