

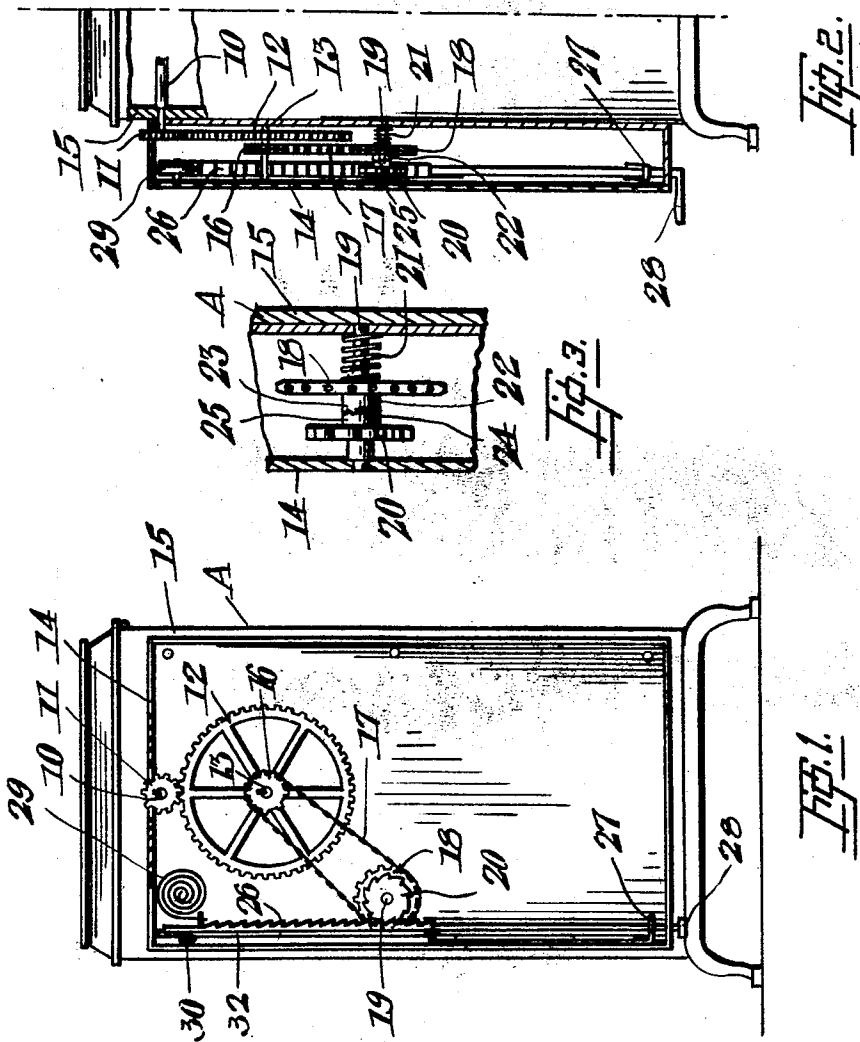
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C. S. LORD

WINDING ATTACHMENT FOR TALKING MACHINES

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ATT'YS

UNITED STATES PATENT OFFICE.

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WINDING ATTACHMENT FOR TALKING MACHINES.

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To all whom it may concern:

Be it known that I, CHARLES STANLEY LORD, a subject of the King of Great Britain, and resident of the city of Moose Jaw, in the Province of Saskatchewan and Dominion of Canada, have invented certain new and useful Improvements in Winding Attachments for Talking Machines, of which the following is a specification.

This invention relates to improvements in winding attachments for talking machines, such as gramophones and phonographs and similar sound-reproducing machines, and the objects of the invention are to provide a simple and effective device by which the winding may be accomplished by the pressure of the foot of the operator in place of by hand.

Further objects are to provide a device of this character composed of few parts all well designed to perform the functions required of them.

It consists essentially of the improved construction hereinafter described in detail in the accompanying specification and drawings.

In the drawings:

Figure 1 is a sectional elevation of an embodiment of the invention.

Figure 2 is a cross-sectional view through the same.

Figure 3 is a sectional view through the gear.

In the drawings, like characters of reference indicate corresponding parts in all the figures.

Referring to the drawings:

A represents any suitable talking machine and 10 the winding shaft thereof. 11 indicates a pinion on the winding shaft which meshes with a gear 12 mounted on a counter-shaft 13 journalled in a casing 14 which may be attached to the side of the cabinet 15 of the talking machine. The counter-shaft 13 carries a sprocket 16 connected by a chain 17 with a sprocket 18 mounted on a counter-shaft 19 which is also suitably journalled in the casing.

The sprocket 18 is connected by a spring ratchet clutch device with a ratchet wheel 20; the form of such device illustrated com-

prising a spring 21 which is adapted to force the sprocket 18 longitudinally on the shaft 19 and to cause the sleeve 22 bearing ratchet teeth 23 to engage with corresponding ratchet teeth 24 in the sleeve 25 on the ratchet wheel 20, the arrangement being such that movement of the ratchet wheel 20 in one direction will turn the sprocket 18 but will not move the same when turned in the opposite direction.

The ratchet wheel 20 is designed to be driven from a ratchet rack 26 mounted with freedom to reciprocate vertically in the casing 14, being supported at the lower end by a bracket 27. The lower end of the ratchet rack 26 is connected to a pedal 28 by which the rack may be depressed. The rack is designed to be returned to normal position by a suitable spring 29 mounted in the casing, having one end connected to the casing and the opposite end connected to the top of the rack.

It will be seen that, on depressing the pedal 28 the ratchet wheel 20 will be turned, which will turn the sprocket 18 which will turn the sprocket 13 and the gear 12 operating the pinion 11 will turn the winding shaft.

It will be observed that all the operating parts are contained in the casing or frame 14 which may be readily attached to any suitable talking machine either within or without the casing thereof. To give additional support to the ratchet rack 26, a pin 30 is provided thereon designed to run in a guide-stop 32 in the casing.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention within the scope of the claim, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim as my invention is:

A winding attachment for talking machines, comprising a vertical reciprocal ratchet rack, a rod formed integral with the ratchet rack extending vertically down therefrom, a pedal connected to the lower end of the rod, a lug at the top of the rack,

a spiral spring secured to the lug controlling the upward movement of the rack, a ratchet wheel engaging the rack, a sprocket wheel mounted adjacent to the ratchet wheel and receiving motion from the latter, spring-actuated clutch mechanism locking the sprocket wheel against backward movement, and transmitting the motion of the sprocket wheel for winding the talking machine.

In witness whereof I have hereunto set my hand.

CHARLES STANLEY LORD.