H. JONES.

STEEL TAPE CLEANER.

APPLICATION FILED SEPT. 14, 1915.

1,265,339.

Patented May 7, 1918.

2 SHEETS—SHEET 1.

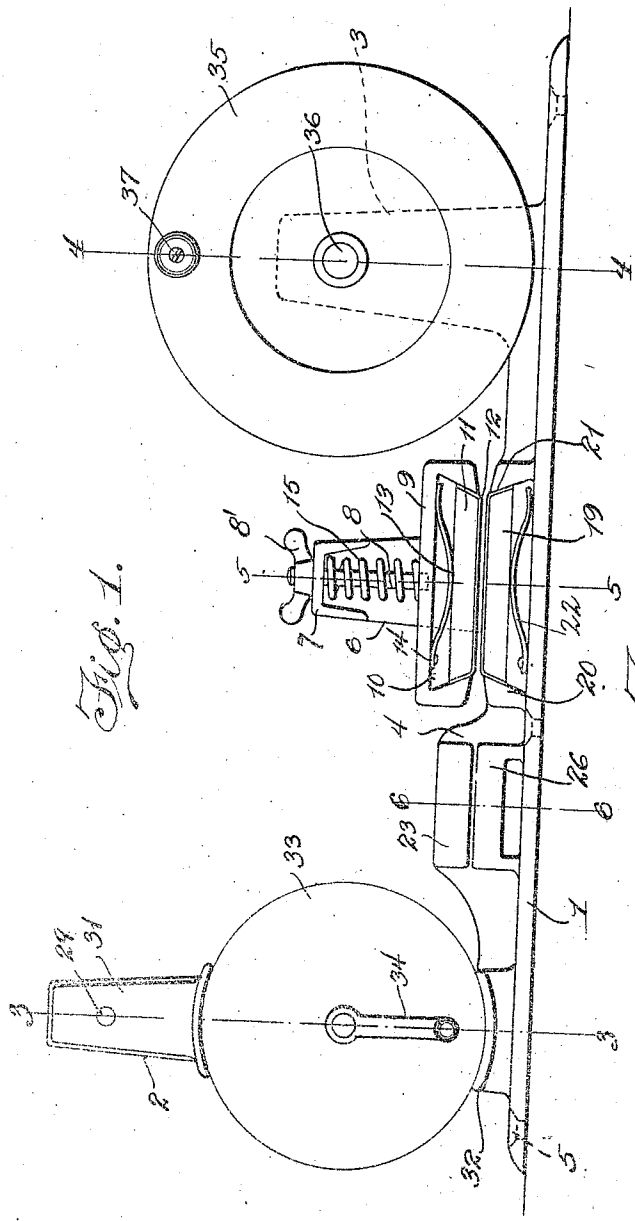


Fig. 1.

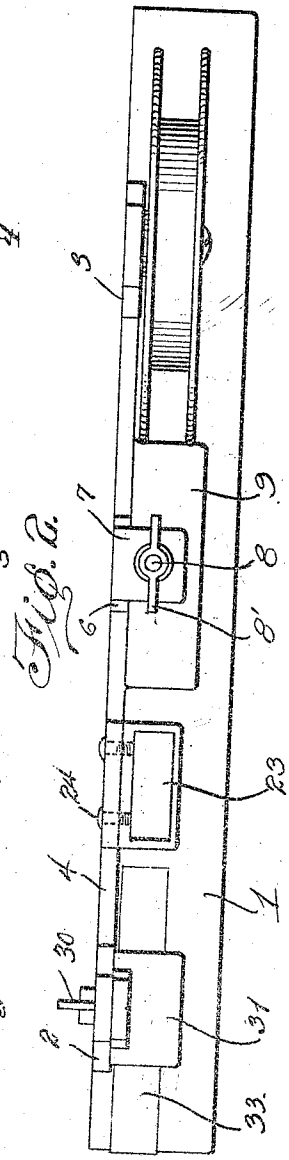


Fig. 2.

WITNESSES

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2 SHEETS—SHEET 2.

Fig. 4.

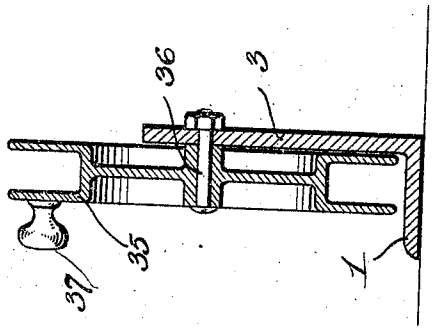


Fig. 6.

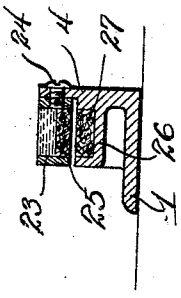


Fig. 3.

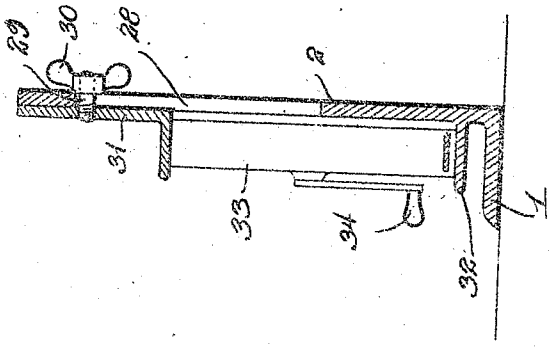
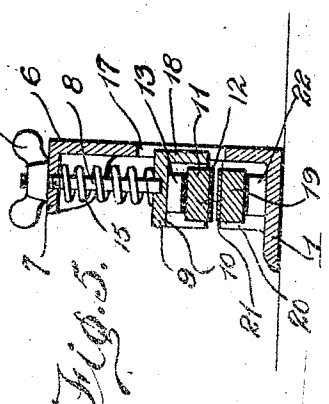


Fig. 5.



WITNESSES

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HENRY JONES, OF OREGON CITY, OREGON.

STEEL-TAPE CLEANER.

1,265,339. Specification of Letters Patent. Patented May 7, 1918.

Application filed September 14, 1915. Serial No. 50,666.

To all whom it may concern:

Be it known that I, HENRY JONES, a citizen of the United States, residing at Oregon City, in the county of Clackamas and State of Oregon, have invented certain new and useful Improvements in Steel-Tape Cleaners, of which the following is a specification.

My invention relates to cleaning devices and more particularly to a cleaner for steel tapes.

The primary object of the invention is to provide a tape cleaner of the type above mentioned which is simple in construction, strong and durable, cheap to manufacture and effective in operation.

Another object of the invention is to provide a tape cleaner embodying winding means for the tape, cleaning blocks between which said tape is drawn, and means for loosening rust, dirt and the like which very often gather on the steel tape.

A further object of the invention is to provide means for adjusting the cleaning blocks and also means for clamping a tape measure casing on the device.

With the above and other objects in view my invention resides preferably in the construction, combination and arrangement of parts as hereinafter set forth in the specification as illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a cleaning device embodying the preferred form of my invention,

Fig. 2 is a top plan view of the same,

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1,

Fig. 4 is a similar view taken on the line 4—4 of Fig. 1,

Fig. 5, is a similar view taken on the line 5—5 of Fig. 1,

Fig. 6 is a similar view taken on the line 6—6 of Fig. 1, parts of the invention being omitted from each of these views.

Similar reference characters designate similar parts throughout the various views of the drawings.

In the drawings I have illustrated my improved tape cleaner which comprises a base plate 1 having vertical standards 2 and 3 thereon adjacent the opposite extremities of said base plate 1. A vertical side wall 4 is provided extending between said vertical standards 2 and 3 and serving as a strengthening means for said base plate as well as a support for parts of the invention hereinafter described. The base plate 1 may be provided with a plurality of openings 5 through which fastening screws or the like may be placed to mount the device at a convenient point.

A third standard is provided on the base plate 1 and is designated 6, said standard 6 having laterally extending portions 7 through which a threaded rod 8 is vertically movable, said rod carrying on its lower extremity a holder 9 having a substantially dovetailed shaped recess 10 in which is mounted a complementally formed spring pressed cleaning block 11 having a surface of cleaning material such as emery paper designated 12 projecting below the lower marginal edge of the holder 9. A suitable adjusting means for the rod 8 is provided such as a wing nut 8′. A suitable spring 13 having one end secured at 14 to the holder 9 serves to yieldably maintain the block in the position shown. A coil spring 15 is disposed about the rod 8, said coil spring serving to yieldably maintain the holder 9 in the position shown. A suitable recess 17 may be provided in the standard 6 to accommodate a portion 18 of the holder 9 whereby to maintain the same against lateral movement.

A second cleaning block 19 is provided and is formed substantially identical with the cleaning block 11 and mounted in a stationary holder 20. The cleaning block 19 is provided with a cleaning surface 21, and a suitable flat spring 22 serves to yieldably maintain the cleaning block 19 adjacent the cleaning block 11. A suitable liquid containing receptacle 23 is detachably mounted on the wall 4 by means of screws or the like 24. A suitable wick may be placed in the bottom of said receptacle 23 and is designated 25, said wick being shown even with the edge of the receptacle in Fig. 6. A second container 26 is integrally cast on the base 1 and the wall 4 and carries a cleaning fabric 27, the receptacles 23 and 26 being slightly spaced apart as shown to advantage in Figs. 1 and 6 for the purpose hereinafter set forth.

The standard 2 serves as a clamping support for the usual casing in which steel tape measures are wound, said standard having a vertically arranged elongated recess 28 through which a bolt 29 having a wing nut 30 thereon is adapted to extend, said bolt being receivable in a clamping jaw 31, and serving to maintain said clamping

jaw in the desired position. A lateral extension 32 is provided on the standard 2 adjacent the base thereof and a tape measure casing or holder designated 33 is adapted to be clamped between said jaw 31 and said lateral extension 32. The usual handle 34 is carried by the casing 33.

A winding reel 35 is mounted on a stub shaft 36 carried by the standard 3, said reel having a suitable handle 37 thereon.

In operation, a tape measure holder is clamped in the position shown in Fig. 1. The tape is now drawn through the space between the containers 23 and 26, between the cleaning blocks 11 and 19 and thence connected to the reel 35. Rotation of the reel will wind the tape thereon drawing the same under the wick 25, applying a cleaning liquid such as coal oil, lubricating oil or the like and thence between the cleaning blocks which will serve to remove, with the assistance of the oil, any dirt or the like which may be on said tape. It is to be understood that the cleaning surfaces 12 and 21 on the blocks 11 and 19 respectively are readily removable for renewal, ordinary emery cloth or the like being applicable for use in this instance. The cleaning power of the blocks may be varied by varying tension of the spring 15. After the tape has been wound upon the reel 35, it is rewound into the casing or holder 33.

From the above description taken in connection with the accompanying drawings, it is thought that a clear and comprehensive understanding of the construction, operation and advantages of my invention may be readily gathered and while I have shown and described the same as embodying a specific structure, I reserve the right to make changes therein which do not depart from the spirit and scope of the invention as claimed.

What is claimed is:

1. A tape cleaning device, including a base, a plurality of standards for said base, winding means for said base on certain of said standards, one of said winding means being provided with an adjustable clamping member for receiving and fastening a tape holder, a plurality of cleaning blocks carried by said base and one of said standards, said blocks being yieldably mounted, adjusting means for one of said blocks, and guide means associated therewith.

2. A tape cleaning device including a base, a plurality of standards on said base, winding means for said base on certain of said standards, one of said winding means having an adjustable clamping member arranged thereupon for receiving and securing a tape holder, a plurality of cleaning blocks carried by said base and one of said standards, said blocks being yieldably mounted, adjustable means for one of the blocks, guide means associated therewith, and means for applying a cleaning liquid to said tape.

3. A tape cleaning device including a base plate having a plurality of standards thereon, one of the standards having a winding reel thereon and another of said standards having clamping means for retaining a tape carrying casing, a tape lubricator on the base, and abrasive blocks, one of the abrasive blocks being mounted on the base and the other of said abrasive blocks being yieldably mounted on one of the standards.

4. A tape cleaning device including a base having a plurality of standards thereon, winding means associated with said standards, a tape casing on another of the standards, a lubricator consisting of a wick cup and a fluid reservoir with an absorbent bottom over the wick cup, and abrasive blocks on the base for receiving the tape after it leaves the lubricator.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY JONES.

Witnesses:
JNO. W. LODER,
MILDRED F. BOMAN.