



June 3, 1941.

H. F. CALDWELL

2,244,140

LABEL ATTACHING MACHINE

Filed July 31, 1940

7 Sheets-Sheet 2

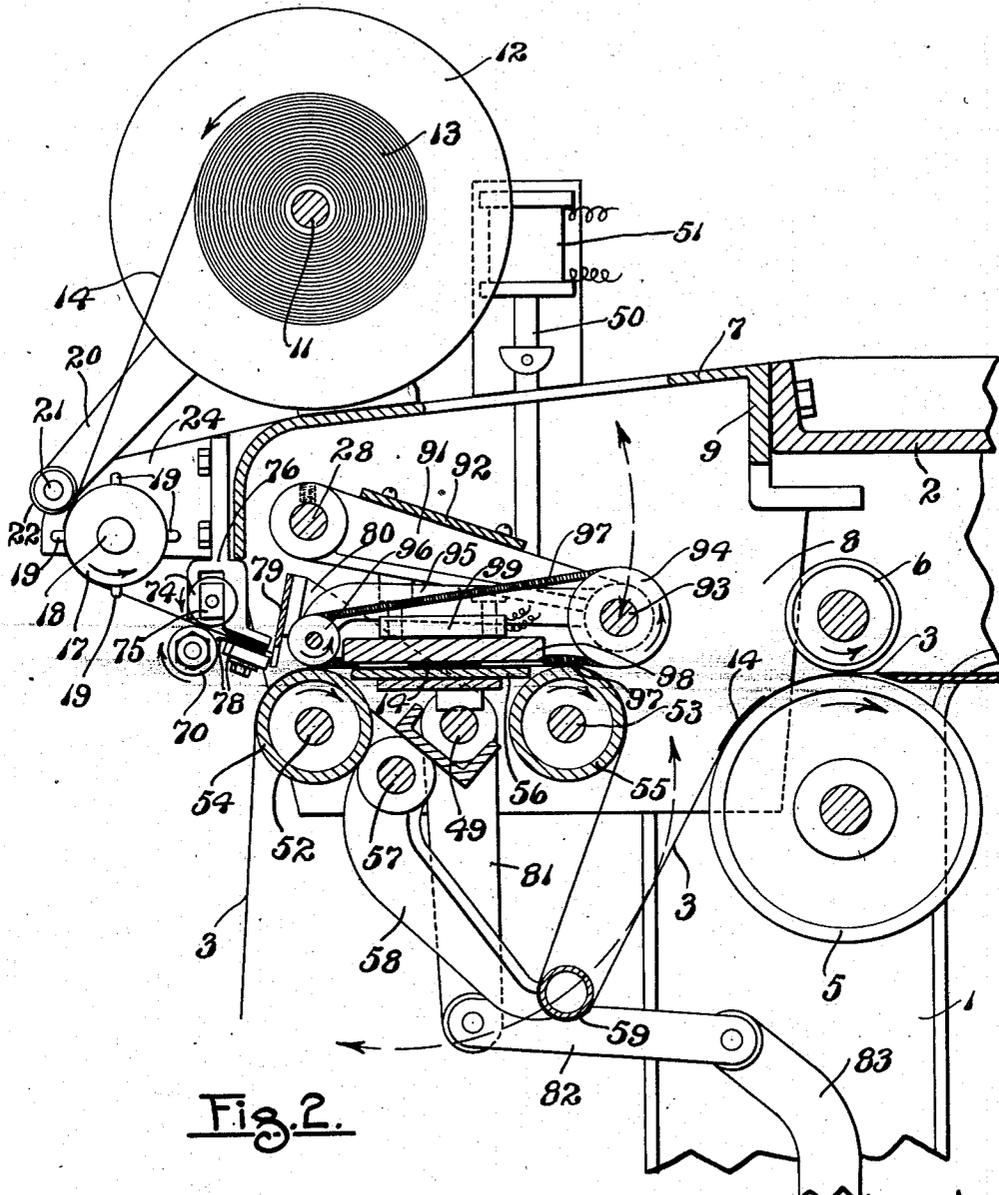


Fig. 2.

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7 Sheets-Sheet 3

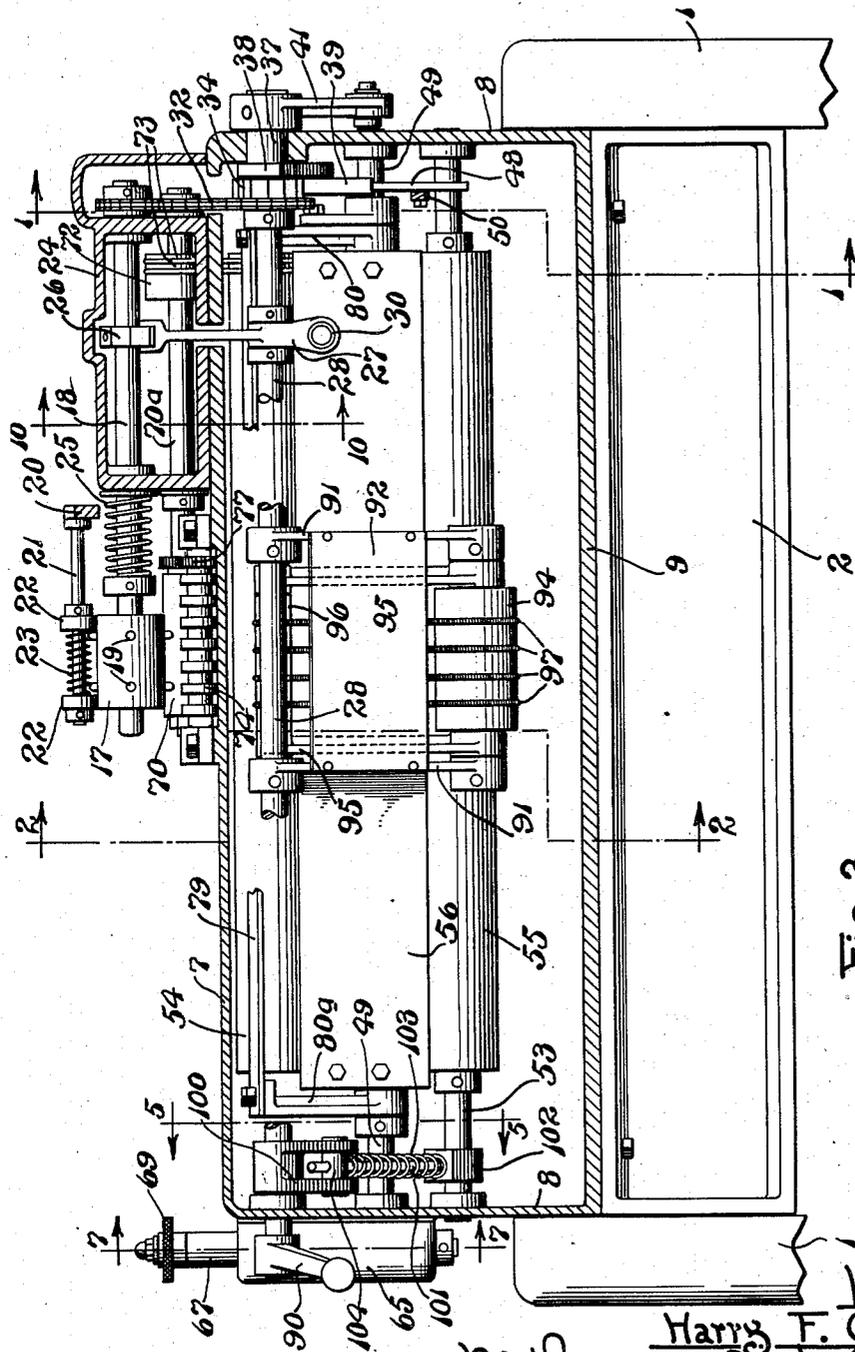


Fig. 3.

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7 Sheets-Sheet 4.

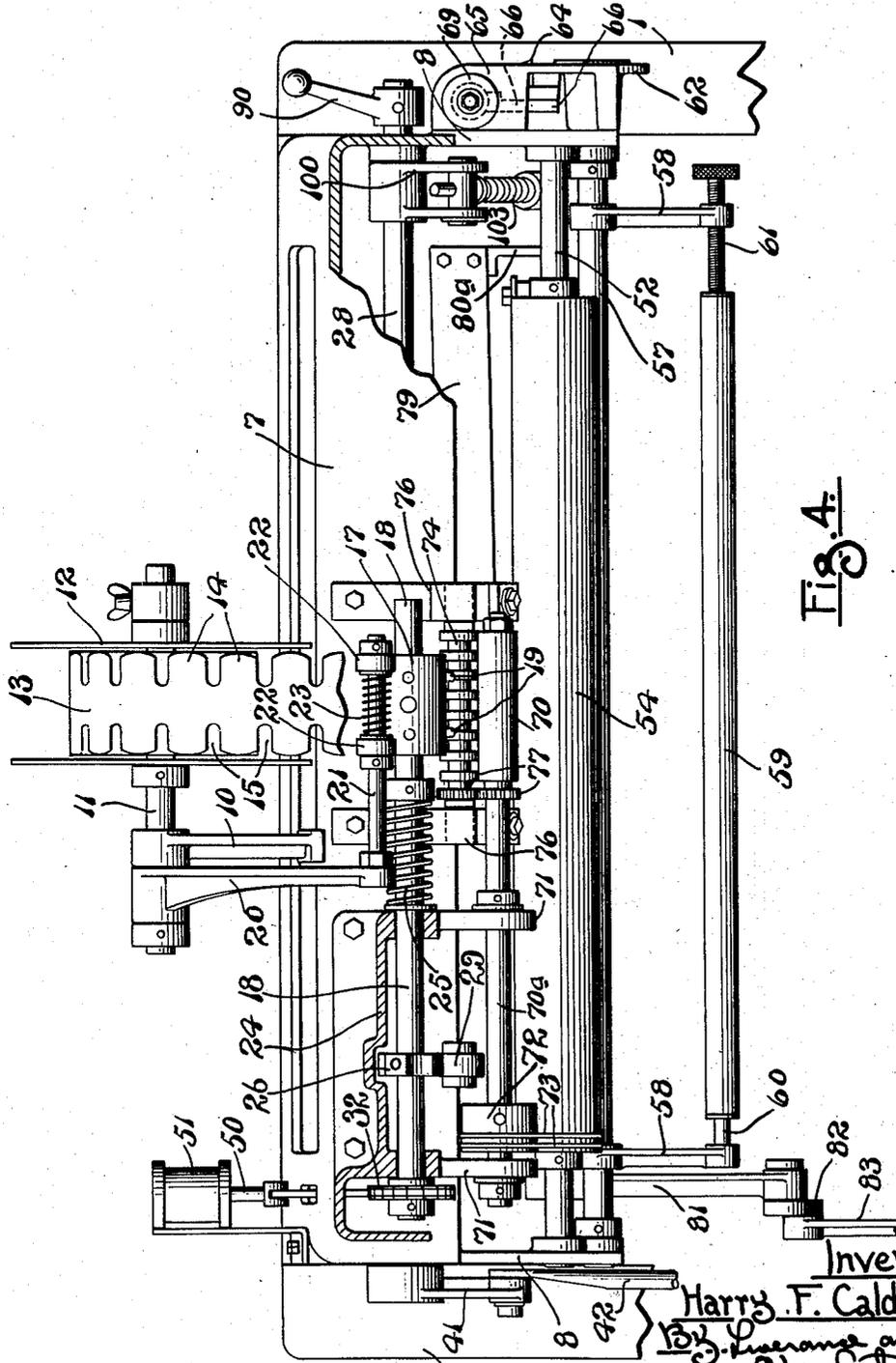


Fig. 4.

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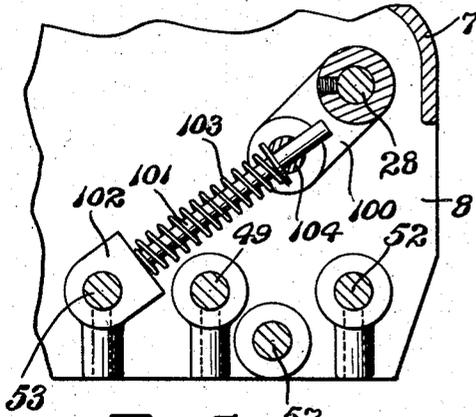


Fig. 5.

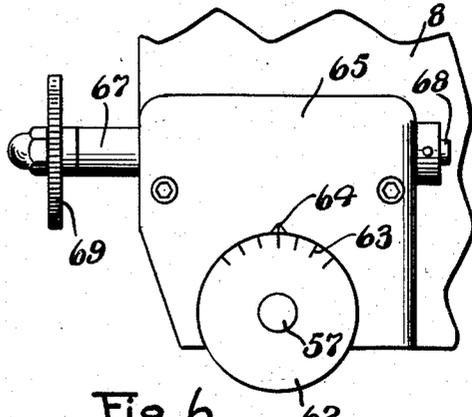


Fig. 6.

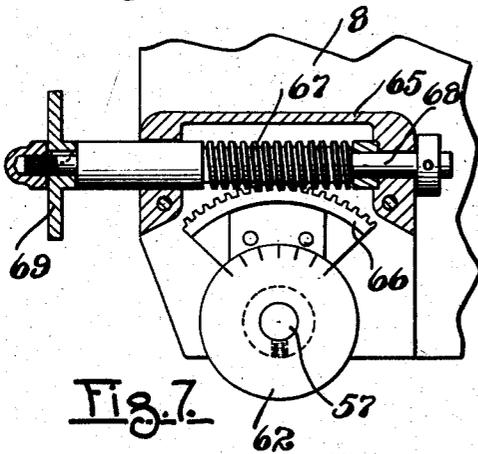


Fig. 7.

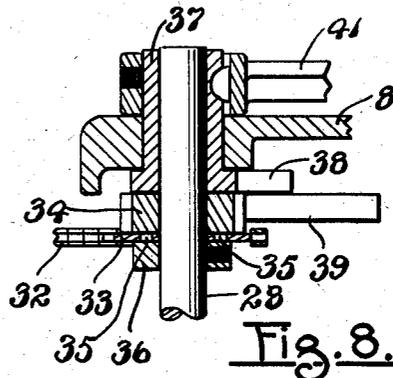


Fig. 8.

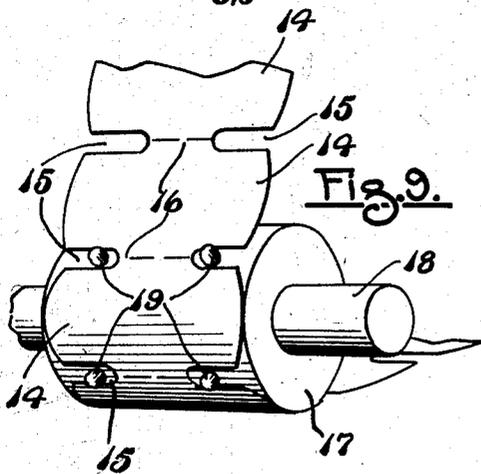


Fig. 9.

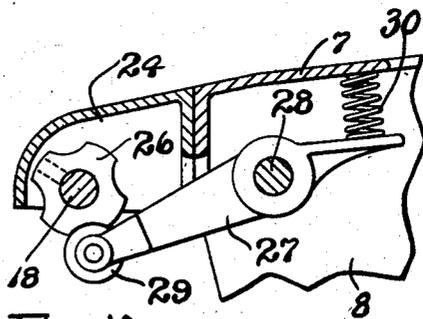


Fig. 10.

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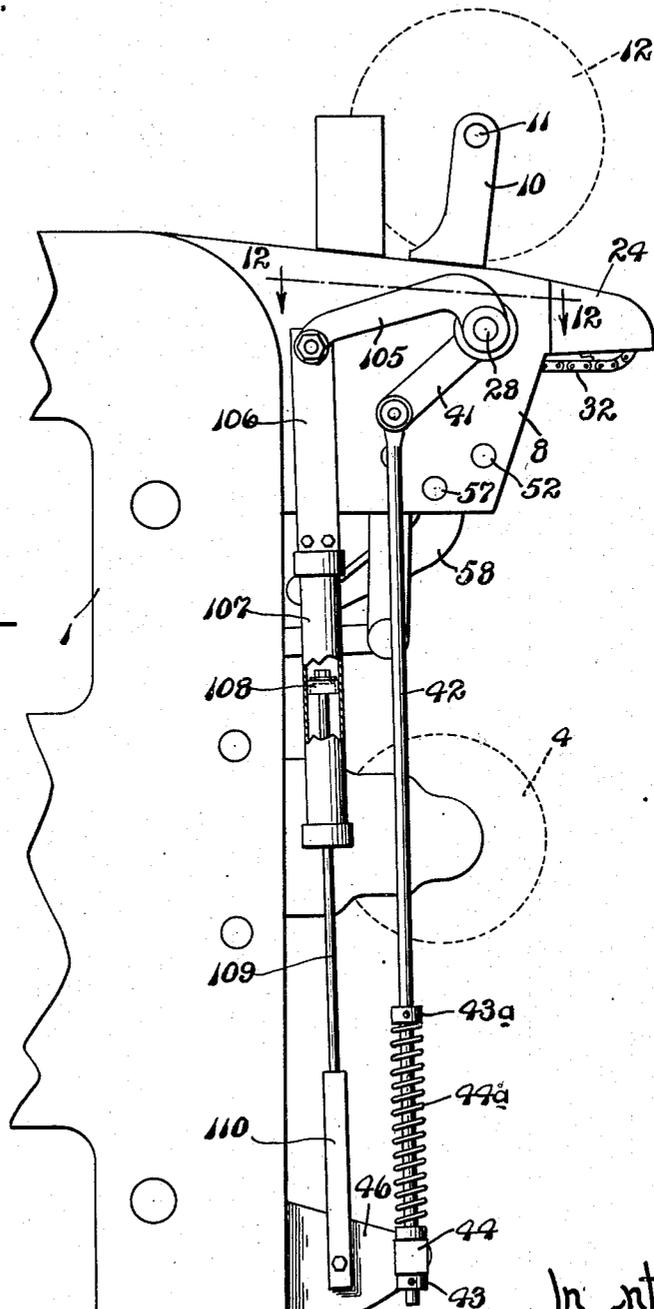
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Fig. 11.



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LABEL ATTACHING MACHINE

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7 Sheets-Sheet 7

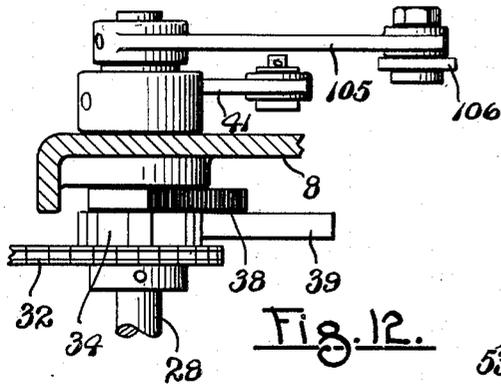


Fig. 12.

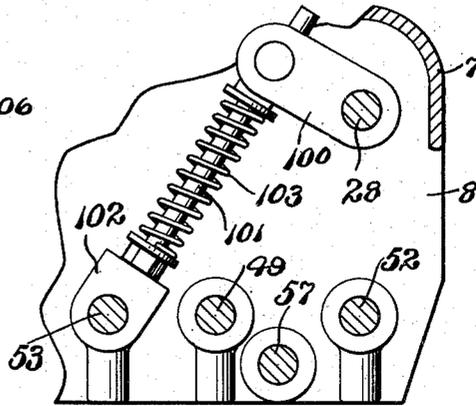


Fig. 13.

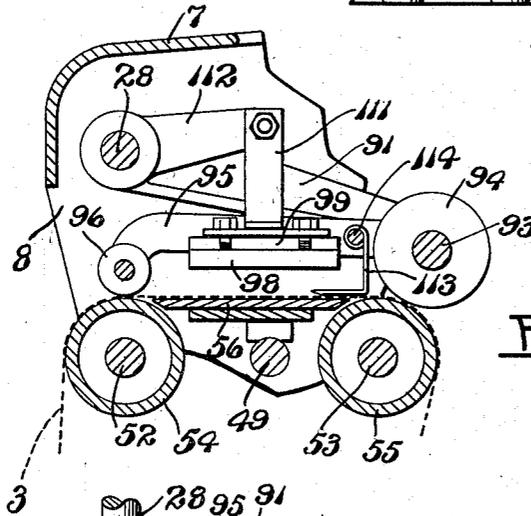


Fig. 14.

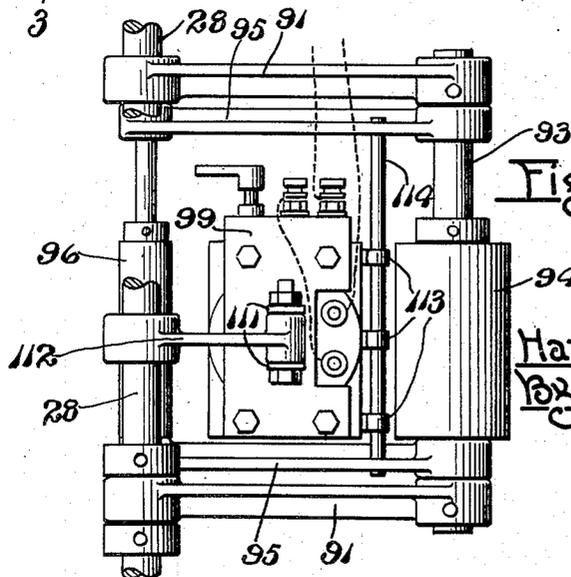


Fig. 15.

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# UNITED STATES PATENT OFFICE

2,244,140

## LABEL ATTACHING MACHINE

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Application July 31, 1940, Serial No. 348,697

12 Claims. (Cl. 216—29)

This invention relates to a label attaching machine adapted to be associated with a wrapping machine. The present machine, in the structural embodiment which I have devised, is adapted to be connected with a wrapping machine of the character shown in the pending application, Serial No. 247,063, filed December 21, 1938, by myself jointly with Howard B. Tuthill. In such wrapping machine loaves of bread may be wrapped though it is not necessarily restricted to bread wrapping alone.

Loaves of bread or other articles, subjected to being wrapped for protection or preservation desirably should be labeled, and the present invention is directed to a label attaching mechanism or machine which can be used with the wrapping machine and with which simultaneously with the wrapping of each article a label is supplied to and connected with the wrapper. Such label may carry any desired indicia such as the name of the article, its trade name, or any advertising with respect thereto. It is the primary object and purpose of the present invention to provide a label attaching mechanism for wrapping machines whereby each article wrapped will have secured to the wrapper a desired label. Therefore, the wrapped articles are complete both as to wrapping and labeling when passed through the wrapping machine equipped with the label attaching machine of my invention.

Other objects and purposes subsidiary to the primary object stated, together with novel constructions, arrangements and associations of parts for obtaining the same will appear and be understood from the following description of a preferred form of construction of my invention taken in connection with the accompanying drawings, in which—

Fig. 1 is a fragmentary vertical section and elevation through one end of a wrapping machine having the label attaching machine of my invention connected and combined therewith, the plane of the section being taken substantially on the line 1—1 of Fig. 3.

Fig. 2 is an enlarged fragmentary vertical section through the label machine substantially on the plane of line 2—2 of Fig. 3.

Fig. 3 is a horizontal section and plan substantially on the plane of line 3—3 of Fig. 1, looking downwardly.

Fig. 4 is a fragmentary elevation of the machine with certain parts in section for better disclosure.

Fig. 5 is a vertical sectional detail taken substantially on the plane of line 5—5 of Fig. 3.

Fig. 6 is a fragmentary elevation at one end of the label attaching mechanism of a detail structure for accomplishing a setting of the label with respect to the wrapper to which it is to be attached.

Fig. 7 is a vertical section therethrough on the plane of line 7—7 of Fig. 3.

Fig. 8 is a fragmentary horizontal section at one end of the label attaching machine of a detail of a part of the label feeding mechanism.

Fig. 9 is a fragmentary perspective view showing the label strip and the manner in which it is controlled and governed in its feeding.

Fig. 10 is a fragmentary vertical section substantially on the plane of line 10—10 of Fig. 3, looking in the direction of the arrows.

Fig. 11 is an end elevation of the label attaching machine with some parts in section showing a different, and in some respects, a preferred form of construction.

Fig. 12 is a sectional view similar to Fig. 8 of the structure in Fig. 8 modified in accordance with the machine illustrated in Fig. 11, the section being on line 12—12 of Fig. 11.

Fig. 13 is a similar modification of the construction in Fig. 5 required with form of construction of the machine shown in Fig. 11.

Fig. 14 is a fragmentary section similar to Fig. 2 of the modified form of construction, and

Fig. 15 is a fragmentary plan of the mechanism shown in Fig. 14.

Like reference characters refer to like parts in the different figures of the drawings.

The wrapping machine to which the label attaching machine of my invention is connected includes spaced side frames 1 which are joined together by cross beams 2. The wrapping material or paper 3 is carried in a roll 4 at an end of the wrapping machine, and as will later be described, passes over a plurality of guiding rollers to lower and upper rollers 5 and 6, roller 5 being a driven roller and roller 6 bearing thereagainst so that the wrapping paper is pulled from the roll 4 and carried between the rollers 5 and 6 to the wrapping mechanism, it being understood and as will appear in the pending application to which reference has been made that predetermined lengths of the paper are cut from the continuous sheet, one for each article which is to be wrapped.

The label attaching machine of my invention includes a supporting housing having an upper side 7 and depending ends 8 spaced from each

other, there being a vertical flange 9 at the inner edge of the top 7 which is bolted or otherwise permanently connected with an upper cross beam 2 of the wrapping machine (Figs. 1 and 2). A post 10 is secured to the top member 7 of the housing on which a rod or shaft 11 is mounted. A spool 12 is rotatably mounted on the rod 11 and held between suitable collars on which spool a roll 13 of labels is carried. The labels 14 which make up the roll 13 are integrally connected in consecutive order and are partially separated from each other by slots 15 extending inwardly from each side edge between adjacent labels as best shown in Fig. 9, leaving relatively narrow connecting portions 16 between consecutive labels 14.

From the roll 13 carried by the spool 12 the connected together labels are led downwardly over a cylinder 17 fixed to a shaft 18. Four sets of pins 19 extend radially outward from the cylinder 17 and are associated in pairs so that when the continuous strip of labels passes around the roller 17 the pins 19 enter the slots 15 as shown in Fig. 9, thereby maintaining and keeping the labels in proper position and feeding them into the machine in proper timed relationship to the cut-off knife which cuts the end label from the strip, one after the other, as articles in the wrapping machine are wrapped one after the other. Such cutting knife and its operation will be hereinafter described.

An arm 20 (Fig. 4) is mounted at one end upon the rod or shaft 11 and has a rod 21 connected to its other end which extends parallel to the axis of the roller 17. On the rod 21 two spaced apart rollers 22 held apart by a coiled spring 23 and against suitable collars fixed on said rod 21 are mounted and pressed by gravity against the edge portions of the label strip holding the same against the cylinder 17.

The shaft 18 on which the cylinder 17 is secured is mounted for rotation in the ends of an auxiliary housing 24 bolted to the main housing of the label machine and extending outwardly therefrom, said auxiliary housing 24 being located adjacent one end of the main housing and the shaft 18 extending beyond said housing toward the center of the machine. A coiled compression spring 25 bearing at one end against the housing 24 and at the other end against a collar fixed on the shaft 18 has the effect of frictionally holding the shaft 18 against too free or aimless movement. A disk 26 (Fig. 10) is fixed to the shaft 18 and has a plurality of spaced apart concave notches therein. A lever 27 mounted upon a horizontal shaft 28 which extends the full length of the main housing, at one end has a roller 29 adapted to enter the concave notches in the disk 26 being yieldingly pressed therein by a spring 30 acting upon the opposite end of the lever. The feeding of the labels, one after the other, is by a periodic step by step movement, the shaft 18 turning one quarter of a revolution at each movement and with an interval of rest between each step, the spring actuated detent provided by lever 27 and roller 29 acting to maintain the shaft 18 and the cylinder 17 about which the label strip is carried against any change of position and insuring that the feeding of the labels shall be accurate and of the same amount with each step of feeding movement.

A sprocket wheel 31 is secured to the shaft 18 around which an endless sprocket chain 32 is carried (Figs. 1 and 2). The chain also passes around a second sprocket wheel 33 loosely mounted upon the shaft 28. A ratchet wheel 34 is con-

nected with the sprocket wheel by pins 35 (see Fig. 3) the parts being held together by the collar 36 secured to the shaft 28 and holding the ratchet wheel against the end of a bushing 37 which is mounted upon and passes through an end 8 of the main housing of the label machine. A relatively wide arm or plate 38 extends downwardly and inwardly toward the wrapping machine from the inner end of the bushing 37, being either integral therewith or permanently secured thereto. A ratchet dog 39 is pivotally mounted between its ends on the plate 38 and has its ratchet engaging end below the ratchet wheel 34 (Fig. 1). An arm 41 is secured to the bushing 37 at the outside of the end 8 of the main housing and at its free end is pivotally connected with a vertical rod 42 which extends downwardly alongside of the end of the wrapping machine. At the lower end of the rod 42 a collar 43 is secured. The rod passes freely through a block 44 located above and bearing upon the collar 43 and between this block and a collar 43a secured at a higher point on the rod 42, a coiled compression spring 44a is disposed. The block 44 is pivotally mounted by means of trunnions 45 upon the end of an arm 46 which is secured to a rock shaft 47. The rock shaft 47 is a part of the mechanism of the wrapping machine which is operated as the heretofore identified pending application discloses to provide a periodic or intermittent feed of the wrapping paper.

The ratchet dog 39 rests at its weighted end upon a lever 48 mounted for free movement about a horizontal rod 49 extending between the ends 8 of the main housing. A rod 50 (Fig. 1) is connected to the free end of the lever 48 and extends upwardly to and has associated therewith a core of an electric solenoid 51 whereby when the solenoid is energized the rod 50 is moved vertically, the lever 48 is turned counter-clockwise about the shaft 49 and the ratchet engaging end of the dog 39 lifted so as to engage the ratchet wheel 34.

In Fig. 1 the arm 46 is at its lowermost position. The line indicated at A joining the centers of trunnions 45 and the shaft 47 is carried successively to the positions B and C, the latter being the uppermost position of movement of the arm 46. In moving from position A to position B the arm 41 will be elevated, turning the bushing 37 and turning the plate 38 from the full line position shown in Fig. 1 to the dotted line position shown or until it engages with a limit stop 40 on the machine housing. In such movement of the plate 38, the dog 39 being connected with the ratchet wheel 34, shaft 28 will be turned a limited distance and through the construction described will turn the shaft 18 a one quarter turn previously mentioned. But the arm 46 may continue to its upper movement indicated by the line C in Fig. 1 without any further feeding movement of the labels, the spring 44a being compressed. On the return of the arm 46 to its lowermost position in moving from the position at C to that at position B the spring 44 will be extended and in the following movement from position B to position A the member 38 will be returned from upper to lower position and the dog 39 carried to a position where it can engage the next succeeding tooth of the ratchet wheel. Thus with the rocking movement of the shaft 47 there is a step by step feeding movement of the label strip, with intervals of rest between steps of movement. It is of course understood that if the solenoid is not energized, then no labels will

be fed to the wrapping machine and the machine will wrap the articles without labels, the same as though the label attaching mechanism was not present. Therefore when labels are to be supplied to the wrappers an electric circuit containing the solenoid is closed to pass current therethrough.

Two shafts 52 and 53 on which rollers 54 and 55 are respectively carried are mounted in horizontal alinement with the rod 49 (Fig. 2) and at opposite sides thereof. A horizontal table 56 is secured to, extends lengthwise of and is located above the rod 49 which serves as a support therefor. At its upper side the table 56 is substantially flush with the uppermost portions of the rollers 54 and 55. A horizontal shaft 57 is mounted below and is located between the shafts 52 and 49 and from which two spaced apart arms 58 (Fig. 4) extend downwardly and toward the wrapping machine. Between the lower ends of the arms 58 a roller 59 is mounted between a short stud shaft 60 carried by one arm and an adjustable screw 61 by the other arm, the ends of said parts 60 and 61 and the ends of the roller 59 having suitable anti-friction bearings between them whereby the roller 59 is freely rotatable. The roller may be readily removed with the described structure. The wrapping paper 3 is carried upwardly from the roll 4 over the roller 54 across the table 56 and around the roller 55 downwardly to the roller 59 and thence upwardly over the roller 5 into the wrapping machine, as shown in Fig. 2.

The shafts 52, 53 and 57 are mounted at their end portions in suitable bearings on the sides 8 of the housing. The shaft 57 is carried through one of said ends 8 and is equipped with a flat disk 62 at the upper part of which is a graduated indicating scale 63 which moves with respect to a fixed pointer 64 on a housing 65 secured to the associated end 8 of the main housing (Figs. 4, 6, and 7). A worm gear segment 66 is secured to the inner side of the disk 62 within housing and at one end is equipped with an operating hand wheel 69. By turning the hand wheel the shaft 57 may be adjusted to different positions with corresponding changes in the positions of the roller 59. The object of this construction is to adjust the label to the wrapper onto which the label is delivered so that the label will be properly located upon the wrapper, so that when it is wrapped around an article the label will appear in a desired location and position with respect to the wrapped article.

The label strip upon leaving the drum 17 is carried to and over a roller 70 on a shaft 70a (Fig. 4) which is mounted in bearings in projecting arms 71 extending downwardly from the auxiliary housing 24. A drum or pulley 72 on the shaft 70a has grooves therein to receive endless belts 73 which pass around it and also around the roller 54 to thereby drive the roller 70. Lying over and against the roller 70 or against the labels passing thereover is a second roller 74 which, as shown in Fig. 4, is annularly grooved at spaced apart points between its ends to provide a plurality of spaced apart roller sections which bear against the labels. The roller 74 is mounted in rectangular shaped bearings 75 (Fig. 2) which are received in vertical slots in brackets 76 bolted at the outer side of the main housing. The roller 74 by gravity bears against the label strip to press it against the roller 70 and has capabilities of a limited vertical adjustment so that on entering a new label strip into the machine, 75

roller 74 is elevated to permit the end label to pass between it and the lower roller 70. Rollers 70 and 74 are geared together by pinions 77 (Fig. 4) of the same size so that they turn equally in opposite directions.

The label strip fed downwardly and inwardly through the rollers 70 and 74 passes between flat guides 78 (Fig. 2) immediately beyond which the end label is cut from the continuous strip of labels by a cutting knife 79. The knife 79 is secured at its ends to two arms 80 and 80a mounted to rock upon the rod 49. The arm 80 is the upper arm of a bell crank lever (Fig. 2), the other arm 81 of which extends downwardly and is connected by a link 82 (Fig. 1) with an upwardly extending arm 83 secured at its lower end to a bar 84 which is pivoted at one end to rock about the axis of a rod or shaft 85 mounted upon and extending between the sides of the main frame 1 of the wrapping machine. The free end of the bar 84 carries a roller 86 which rides upon a cam drum 87 having a flat side 88 which comes to the roller 86 so that at a predetermined portion of the rotative movement of the drum 87, roller 86 following the flat section 88, there is caused a downward movement of the knife 79 to cut the end label from the strip of labels and deliver it onto the wrapping paper immediately over the roller 54. The drum 87 is secured to a shaft 89 of the wrapping machine. Such drum 87 in the wrapping machine, as shown in the previously identified application, among other things controls the cutting of the wrapping paper to desired lengths, one for each article to be wrapped, and also the elevator cam of the wrapping machine which is used in the wrapping operation.

The shaft 28 at one end (Fig. 4), in the construction shown in Figs. 1 to 10 inclusive, has a hand lever 90 thereon for manual operation to rock the shaft for raising or lowering the heating element used in cementing or fixing the labels 14 to the wrapping paper. On the shaft 28 two arms 91 are fixed (Figs. 2 and 3) and are connected by a cross plate 92. The arms extend downwardly and inwardly toward the wrapping machine and at their inner ends carry a shaft 93 on which a grooved drum 94 is mounted. The shaft 93 also has mounted thereon two arms 95 which extend outwardly to a position underneath the rock shaft 28 and carry a roller 96 which rides upon and over the roller 54 with the wrapping paper 3 between such rollers. It is also evident that the severed labels pass underneath the roller 96 and are held against the surface of the wrapping paper 3. The roller 96 is also grooved similarly to the drum 94 and in the corresponding grooves of the two rollers or drums, endless metallic belts 97 are located. These belts are comprised of lengths of closely coiled wire, the ends of which are secured together. Such belts pass over the upper side of the table 96, paper 3 and the labels 14 lying against the paper, and through grooves made therein for their passage in the under side of a heating plate 98 which is heated by an electric heating element 99 fixed above it, said plate being carried by and suspended from the arms 91 (Fig. 2). A label 14 bearing against the upper side of the wrapping paper and held thereagainst by the lower runs of the belts 97 is caused to firmly adhere to and have a cemented connection with the wrapping paper through the effect of heat supplied by the heating plate 98. The cementation of the label to the paper

through the effects of heat may be secured in many ways by any one of a number of suitable adhesive compositions sufficient to cause such adhesion and which are rendered effective by heat as is well known to those in the art.

This connection of the labels to the wrapping paper through the use of heating will occur only with the plate 98 in its lower operative position as shown in Fig. 2. Rocking the rock shaft 28 by the handle 90 swings the arms 91 in a counter-clockwise direction or upwardly and lifts the plate to an inoperative position. This may be done at times when articles are wrapped without any labels being used and connected to the wrapper. It is also desirable to lift the heating plate and hold it in its lifted position when the machine is not in operation. For this purpose a yoke 100 (Figs. 3 and 5) is secured to the rock shaft 28, having two spaced apart arms. A rod 101 is connected with a stirrup 102 which is mounted for rocking movement on the shaft 53. A coiled compression spring 103 surrounds the rod 101 bearing at one end against the stirrup 102 and at the other end against a washer which in turn comes against a cross-pin 104 rotatably mounted at its ends and extending between the arms of the yoke 100, the rod 101 passing slidably through the cross-pin 104. This provides a toggle lever structure which may be snapped from one side to the other. In one position on rocking the shaft 28 in a selected direction, the heating mechanism will be lowered and in place for operation as in Fig. 2. In the other position the heating element will be lifted and held in inoperative position.

With this construction the wrapping paper being carried into the machine in accordance with the application previously identified, has delivered to it at properly spaced intervals the labels 14 which are carried against the upper side of the wrapper over the table 56 and are adhesively connected to the paper through the effects of heat as described. After leaving the heating mechanism the labels are firmly connected to the upper side of the paper and are carried with it into the wrapping machine. When the loaf of bread or other article is wrapped the label preferably will be located at the upper side of the wrapped loaf and being permanently connected to the section of wrapping paper used in wrapping such loaf will go with the wrapper and loaf. A label is severed from the continuous strip of labels for every length of wrapping paper severed from the continuous length of wrapping paper, is firmly cemented to such length of wrapping paper and is on the wrapped article when the wrapping is complete.

In Figs. 11 to 14 inclusive, some changes involving additions and eliminations in structure from that described are provided for automatically controlling the heating plate instead of manually by a rocking of the shaft 28 by the hand lever 90. The shaft 28 is extended a short distance through sleeve 37 and is equipped with an arm 105 (Figs. 11 and 12) connected to the shaft at one end, the opposite end having a pivotal connection to a vertical bar 106 which is secured to the upper end of an air cylinder 107. Within the cylinder is a piston 108 connected to a piston rod 109 which at its lower end is connected to a bar 110 pivotally attached at its lower end to the rocking arm or lever 46. Therefore, with each rocking movement of the arm 46, shaft 28 is likewise rocked to lift and lower the heating element. The pis-

ton-cylinder construction provides a yielding and cushioning dash pot construction.

The toggle lever construction shown in Fig. 5 is modified by positioning the yoke 100 and the rod 101 at different angles with respect to each other so that the rocking of the shaft 28 merely compresses spring 103 but does not carry its line of force across dead center as in the first described structure. The spring 103 counter-balances the weight of the heating plate. The heating plate 98 with the electric heating element 99 thereabove is not carried in this construction by the arms 91 but is connected through a vertical link 111 with an arm 112 fixed to the shaft 28 whereby the heating plate is lowered and lifted with the rocking of the shaft. The arms 91 in this construction (Fig. 14) are not secured to the rock shaft 28 but are loosely mounted thereon at one end whereby the structure comprising the arms 91, rollers 94 and 95 and the arms 95 remains in its lower position with the rollers against the wrapping paper 3. Also the belts 97 are not used. Between the heating plate and the roller 93 a plurality of metallic members 113 formed of flat metal and suspended from a rod 114 extending between the arm 95 are used, each at its lower end having a horizontal section lying directly over the paper 3 and serving to hold it or labels thereupon against any attempted upward movement.

A label 14 having been deposited upon the wrapping paper 3 is carried underneath the roller 96 and over the roller 94 with the paper to a position under the heating plate 98. When it reaches the proper position the step by step movement of the wrapping paper 3 stops and there occurs a downward movement of the heater plate through the rocking of shaft 47 in a counter-clockwise direction (Fig. 1), and a downward movement of arms 46 and 105. When the paper and the labels are simultaneously moving in their step by step movement into the machine the heater is lifted.

If it should happen that the wrapping machine and associated label machine are stopped with the heater plate in its down position, spring 103 having been compressed has a sufficient force to move the mechanism associated therewith including the rock shaft 28 to lift the heater to its upper position, thus guarding against danger of the heater burning or damaging the wrapping paper immediately below it as would occur if the paper was stopped and the heater in lower position stayed closely thereabove for a length of time.

The construction described is very practical and useful and has proved particularly desirable in connection with labeling wrapped articles simultaneously with their wrapping. Attachment of labels to articles already wrapped is unsatisfactory and slow. With my invention and without the employment of additional labor the label attachment is effected with sureness and certainty and with complete uniformity. As previously pointed out the wrapping paper passing into the machine may be adjusted and gauged by means of the roller 59 which can be shifted to different positions so as to govern the relative positions at which the labels will be deposited upon the paper and therefore the relative position of each label to a length of paper which is severed from the roll for wrapping each article which is to be wrapped.

The invention is defined in the appended claims

and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. A labeling machine adapted to be applied to a wrapping machine wherein wrapping paper in a continuous length is carried into the machine in periodic movements with intervals including rest between movements of the paper, of means in said labeling machine for supporting and carrying a continuous length of labels, means for periodically severing the end labels, one after another from said length of labels and depositing them upon the wrapping paper during movement thereof, and means to which said wrapping paper with the labels thereon are carried for securing the label to the paper at an interval of rest in the movement thereof.
2. In a labeling machine adapted to deposit labels upon movable wrapping paper, feeding means for a continuous length of connected together labels, means for periodically operating said feeding means, means for successively separating the end labels one after the other from said continuous length of labels between feeding movements thereof, means for moving wrapping paper underneath said separated labels in periodic steps of movement occurring between the periods of movement of said labels and in the same direction as the movement of said labels, whereby the labels are deposited upon different portions of paper, a table over which the paper with the labels are carried and brought to rest successively with a label over the table, and means over the table underneath which the paper and labels pass for securing the labels to the paper.
3. In a labeling machine adapted to be applied to a wrapping machine, in which wrapping machine paper is fed into the machine in periodic movements with intervals of rest between, the length of paper fed with each feeding movement being sufficient for wrapping an article to be wrapped in the machine, the combination of a substantially horizontal table in said labeling machine over which the paper is periodically moved, means for supporting a roll of continuously connected labels disposed in a continuous strip, means for feeding the labels in the same direction as movement of the paper in step by step movements with rest periods between said movements a distance equal to the dimension of a single label in the direction of the length of said strip of labels, means for periodically severing the end label from the remainder of the labels immediately over the paper to thereby deposit the label upon the paper to be carried therewith over the table, and means over the table under which the paper and labels pass and underneath which both come to a stop at the intervals of rest of the paper to adhesively secure the labels to the paper by the application of heat.
4. In a labeling machine adapted to be applied to a wrapping machine, in which wrapping machine paper is fed into the machine in periodic movements with intervals of rest between, the length of paper fed with each feeding movement being sufficient for wrapping an article to be wrapped in the machine, the combination of a substantially horizontal table in said labeling machine over which the paper is periodically moved, a means for supporting a roll of continuously connected labels disposed in a continuous strip, means for feeding the labels in step by step movements a distance equal to the dimension of a single label in the direction of the length of said strip of labels, means for periodically severing the end label from the remainder of the labels immediately over the paper to thereby deposit the label upon the paper to be carried therewith over the table, and means over the table under which the paper and labels pass and underneath which both come to a stop at the intervals of rest of the paper to adhesively secure the labels to the paper by the application of heat.
5. A labeling machine including a substantially horizontal table, carrying means for paper associated with said table to carry the paper substantially against a side thereof, said paper being adapted to be carried to the table and remain at rest for a period of time and then carried beyond the table, means for feeding a continuous strip of labels in periodic movements to said paper carrying means a distance equal to the dimension of a single label in the direction of the length of said strip, means for periodically severing the end labels from the strip of labels one after the other to deposit the labels against the paper at spaced apart intervals, the paper and the labels deposited thereon being moved simultaneously to the table and coming to rest with the label opposite said side of the table, and a heating plate between which the table and the wrapping paper and the labels pass for applying heat to adhesively secure the labels to the paper.
6. A construction containing the elements in combination defined in claim 5, combined with means for moving said heating plate to inoperative or operative positions, as specified.
7. A labeling machine including, a substantially horizontal table, means for moving paper to and stopping it over said table and thereafter carrying it away from the table, means for depositing a label on the paper at spaced intervals of time, said paper and label moving together to a position where the label is directly over the table, a heating plate located over the table, and means for moving said heating plate downwardly while the paper and label are stopped and for elevating the plate for a succeeding movement of the paper and a label thereon to the same position.
8. A labeling machine including a substantially horizontal table, rollers at opposite side edges of the table over which paper is carried onto and away from said table, said paper being adapted to be moved a predetermined distance and then remain at rest for an interval of time, means for carrying an elongated strip of connected together labels, means for periodically feeding the labels with intervals of time between said movements to move the end label of the strip to said paper and substantially over one of said rollers, a third roller above said last mentioned roller bearing against the paper and to which said end label is fed, means for severing the end label from the strip of labels whereby it is deposited on the paper and carried therewith to and over the table, and a heating plate located over the table and underneath which the paper and labels pass and under which the paper with a label thereover successively stops, said heating plate operating to adhesively effect the securing of the label to the paper.
9. A labeling machine comprising a support,

a horizontal table carried thereby, means associated with the table for moving paper to, there-over and away therefrom in periodic step by step movements, the paper being stopped for predetermined periods of time between steps of movement, a spool rotatably mounted upon said support, said spool carrying a roll of connected together labels in an elongated strip, means engaging with said strip of labels for periodically feeding the end label of the strip to and over the paper, means for separating said end label from the strip of labels whereby it is deposited on the paper and moved therewith and stops with the paper in a position over said table, and means for securing the label to the paper when said paper and label are stopped.

10. In a labeling machine, means for carrying wrapping paper through said machine in periodic step by step movements, means for moving a strip of connected labels toward said paper in periodic step by step movement, and means for severing the end label from said strip and depositing it upon said paper, all of said means being so arranged and synchronized that the paper carrying means will continue to operate for a predetermined period of time after the label moving means has stopped.

11. In a labeling machine, means for carrying

wrapping paper through said machine in periodic step by step movements, means for moving a strip of connected labels toward said paper in periodic step by step movement, and means for severing the end label from said strip and depositing it upon said paper, all of said means being so arranged and synchronized that the paper and label strip will start their periodic movements simultaneously, but the paper carrying means will continue to operate for a predetermined period of time after the label moving means has stopped.

12. In a machine in which wrapping paper is propelled in step by step movements and in which labels are deposited upon the wrapping paper at definite intervals, a heating plate to provide heat for adhesively securing said labels to said paper, means for moving said plate to operative position while the paper and labels are stopped and means for moving said plate to inoperative position for a succeeding movement of the paper and label, said last named means being capable of moving the plate to inoperative position after stoppage of the machine irrespective of any operative position to which said plate had been moved at the time the machine stopped.

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