Sept. 10, 1935. J. Q. SHERMAN 2,013,844

CONTINUOUS FEED ENVELOPE ASSEMBLY

Filed June 4, 1934

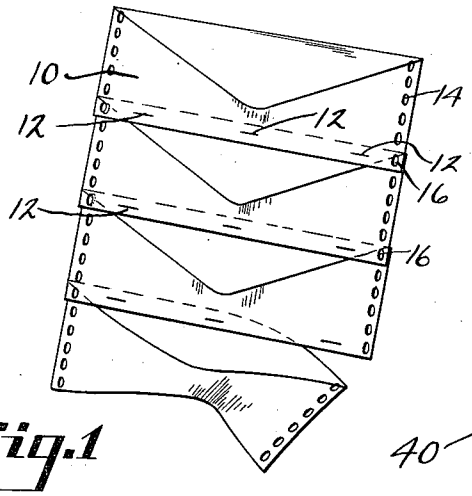


Fig. 1

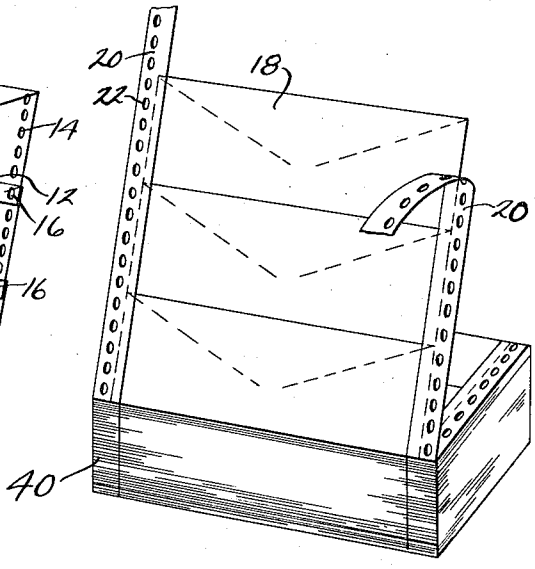


Fig. 2

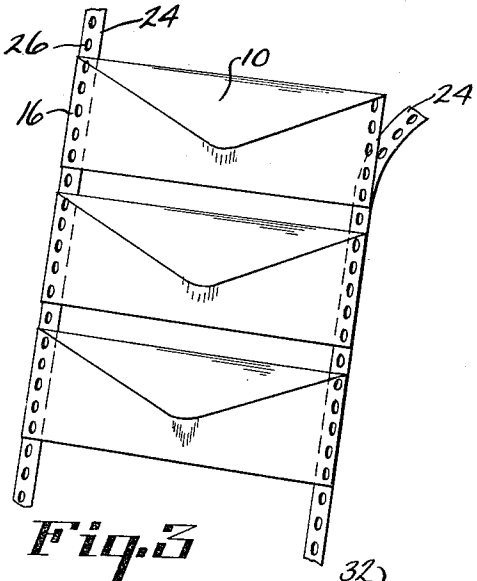


Fig. 3

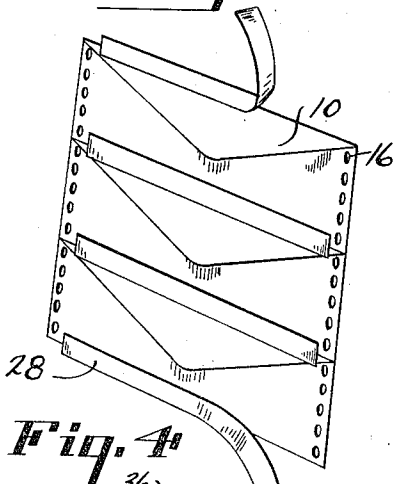


Fig. 4

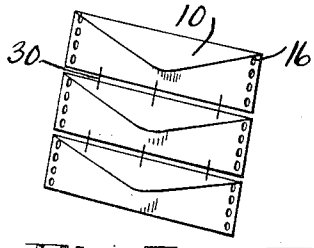


Fig. 5

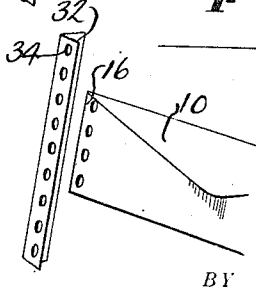


Fig. 6

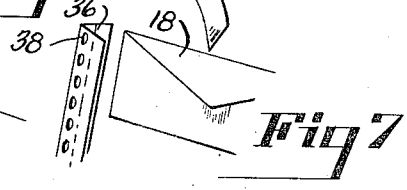


Fig 7

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## CONTINUOUS FEED ENVELOPE ASSEMBLY

John Q. Sherman, Dayton, Ohio

Application June 4, 1934, Serial No. 729,035

25 Claims. (Cl. 229—69)

This invention relates to writing material for a pin feeding device and in more particular to a continuous series of envelopes arranged to be fed by a pin feeding device.

In addressing and printing data upon envelopes there has been no way by which the designated writing position for writing on the envelope may be automatically and accurately brought into registry and aligned with the writing position of the writing machine. There has been no way of doing this with the individual envelopes and there has been no way of doing this with a series of envelopes arranged in continuous length manner. So arranging the envelopes greatly expedites the addressing of them.

An object of this invention is to arrange envelopes to be fed positively, consecutively and in aligned relation to the writing position of a writing machine.

Another object of this invention is to provide envelopes that may be fed by marginal feeding holes through a pin feeding device.

Another object of this invention is to provide a series of interconnected envelopes that may be fed to the writing position individually and after being removed therefrom separated from the remaing envelopes.

Another object of this invention is to provide a series of interconnected envelopes arranged to be fed by means of marginal feeding holes by a pin wheel feeding device past the writing positions of addressing, computing and tabulating machines.

Another object of this invention is to provide a series of interconnected envelopes that may be readily separated from one another after being fed through the writing machine.

Another object is to register envelopes and data at consecutive operations in the same machine or in a different machine, such as typewriters, tabulating and/or computing machines.

Another object is the automatic registering or manual registering by measured stroke from envelope to envelope by a compensating device, as used in tabulating and computing machines.

With the above primary and other incidental objects in view, as will more fully appear in the specification, the invention consists of the features of construction, the parts and combinations thereof, and the mode of operation, or their equivalents, as hereinafter described and set forth in the claims.

Referring to the drawing, in Fig. 1 a preferred embodiment of my invention has been disclosed. Fig. 2 shows another modification wherein the continuous strip of envelopes have been stacked in zig-zag relation. In Figs. 3, 4 and 5 are shown other modifications. In Figs. 6 and 7 modifications similar to the modification disclosed in Fig. 2 has been shown.

In the several embodiments shown in the drawing a series of interconnected envelopes have been shown. These envelopes have been connected together in various ways for the purpose of feeding them in continuous order through a pin type feeding and aligning device. While this series of envelopes or linked forms does not require alignment between superimposed forms in the sense that manifold or multiple forms do, they do need to register and feed accurately and maintain a proper writing position in consecutive order. This means that they must be fed and retained in proper relative position with respect to the pin wheel feed and with respect to the line spacing feeding mechanism of the writing machine so as to properly position the envelopes with respect to the writing position of the machine.

Fig. 1 shows a number of envelopes 10 that are interconnected by staples 12. The margins of the envelopes are provided with feed holes 14, there being one feed hole 16 common to two consecutive envelopes. Referring to Fig. 1 the lower feed hole in the top envelope registers with the upper feed hole of the next envelope. After the envelopes have been addressed the staples 12 may readily be removed so as to separate the addressed envelope from the continuous strip of envelopes.

In Fig. 2 a series of envelopes 18 are held together at either end by strips of material 20. These strips of material 20 are provided with apertures 22 in the margin thereof that extend beyond the ends of the envelopes 18. The strips 20 may be glued or otherwise secured to the envelopes 18 and the strips removed in their entirety from each envelope printed upon.

Instead of removing the entire strip or strips, the strips may be torn along suitable tear lines provided therefor.

In Fig. 3 there is shown an assembly of continuous strips of envelopes 10 marginally punched at 16 and held together by strips 24 either glued or otherwise attached to the envelopes. As strips 24 are punched at 26, the holes 26 register with the holes 16 throughout the overlapping areas. The strips 24 can also be stripped from the envelope but the envelopes in this instance will contain the punched holes permanently the same as

those shown in Fig. 1. The modification disclosed in Fig. 3 discloses the envelopes spaced apart and held together by the feed strips which span the separation. In this instance a marginal feed hole is found in the strip intermediate succeeding envelopes. One or more feed holes may be located intermediate envelopes, depending entirely upon the spacing thereof.

In Fig. 4 the envelopes 10 marginally punched at 16 are held together by transverse glue strips 28 which may readily be stripped or removed from the envelope after it has been addressed.

In Fig. 5 the envelopes 10 having the marginal feed holes 16 are held in spaced relation by longitudinal staples 30 spanning the gap intermediate succeeding envelopes. These envelopes may be so positioned that the space intermediate succeeding envelopes functions as a feed hole or the envelopes may be so spaced that the distance from the lower hole in one envelope to the upper hole in the succeeding envelope is equal to the distance between succeeding holes in the envelope.

In Fig. 6 the marginally punched envelope 10 is held together with a strip 32 overlapping both sides of the envelope, the holes 34 in the strip 32 registering with the holes 16 in the envelope when assembled.

In the modification disclosed in Fig. 7 the envelopes 18 are not marginally punched but held together by a strip 36 folded upon itself, the margins of which embrace both sides of the envelope. The holes 38 are located in the folded strip beyond the edge of the envelope. In this respect the modification disclosed in Fig. 7 differs from the modification disclosed in Fig. 6 wherein the envelope is marginally punched.

The individual envelopes may easily be separated from the chain of envelopes after being addressed. The separation may be accomplished by removing the staples, stripping the adhesive strips from the envelope, tearing said strips along suitable tear lines, or otherwise separating the envelopes from each other.

As best seen in Fig. 2, the strip of envelopes may be stacked in a zig-zag pack 40. Instead of stacking the chain of envelopes in the pack 40 they may be arranged stacked or stored in any other suitable manner.

From the above description it will be apparent that there is thus provided an assembly of the character described possessing the particular features of advantage before enumerated as desirable, but which obviously is susceptible of modification in its form, proportions, detail construction and arrangement of parts without departing from the principle involved or sacrificing any of its advantages.

While in order to comply with the statute, the invention has been described in language more or less specific as to structural features, it is to be understood that the invention is not limited to the specific features shown, but that the means and construction herein disclosed comprise the preferred form of several modes of putting the invention into effect, and the invention is therefore claimed in any of its forms or modifications within the legitimate and valid scope of the appended claims.

Having thus described my invention, I claim:

1. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a series of interconnected envelopes arranged in a continuous strip, said strip being provided with marginal feed holes for feeding the envelopes through the writing machine.

2. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a series of envelopes and means connecting the envelopes into a continuous strip, said strip being provided with feed holes for engagement with the pin feeding device of the writing machine for advancing the envelopes past writing position.

3. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes and staples for interconnecting the envelopes into a continuous strip, the margins of the envelopes forming the margins of the strip being punched to provide feed holes for engagement with the pin feeding device on the writing machine to advance the envelopes past writing position.

4. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in spaced relation with respect to each other and means extending from one envelope to the other for interconnecting the envelopes into a continuous chain of envelopes, said chain of envelopes being provided with marginal feed holes for engagement with the pin feeding device of the writing machine for advancing the envelopes past writing position.

5. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in a strip-like formation and marginal strips attached to the edges of the envelopes, said marginal strips being provided with punched holes for engagement with the pin feeding device of the writing machine to advance the envelopes past writing position.

6. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a series of envelopes arranged side to side to form a strip and means for interconnecting the envelopes including marginal strips attached to the margins of the envelopes, said marginal strips being provided with feed holes for engagement with the pin feeding device of the writing machine to feed the envelopes past writing position in aligned relation therewith.

7. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged side to side so as to form a continuous strip and means for interconnecting said envelopes including a plurality of adhesive strips, the margins of said strip of envelopes being provided with pin feed holes for engagement with the pin feeding device of the writing machine to advance the envelopes successively past writing position in aligned relation therewith.

8. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in a strip-like formation and means for interconnecting said envelopes including marginal strips, pin feed holes being provided in the margins of this strip-like formation, said pin

feed holes extending through the envelopes whereby the envelopes may be individually fed in aligned relation through the writing machine by the pin feed device.

9. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in strip-like formation and means for interconnecting said envelopes including marginal strips overlapping the margins of the envelopes, punched holes extending through the margins of the envelopes and through the strip for feeding the envelopes past writing position in aligned relation by said pin feeding device.

10. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in a strip-like formation and means for interconnecting the envelopes, said means including a V-strip embracing the margins of the envelopes, said V-strip being provided with punched feed holes for engagement with the pin feeding device of the writing machine for feeding the envelopes in aligned relation through the same.

11. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in a strip-like formation and V-shaped strips embracing the ends of the envelopes for holding the envelopes in spaced relation whereby the envelopes may be fed successively through the writing machine, the margin of the V-shaped strip extending beyond the envelope being marginally punched for engagement with the pin feeding device of the writing machine for advancing the envelopes through the machine in aligned relation with the writing position thereof.

12. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes and staples for interconnecting the envelopes into a continuous strip, the envelopes at the sides being marginally provided with feed holes for engagement with the pin feeding device on the writing machine to advance the envelopes past writing position.

13. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in spaced relation with respect to each other and means binding contiguous envelopes to each other for interconnecting the envelopes into a continuous chain of envelopes, said chain of envelopes being provided with marginal feed holes for engagement with the pin feeding device of the writing machine for advancing the envelopes past writing position.

14. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through the machine, including a plurality of envelopes arranged in a strip-like formation and V-shaped strips embracing the ends of the envelopes for holding the envelopes in spaced relation whereby the envelopes may be fed collectively through the writing machine, the margin of the V-shaped strip extending beyond the envelope being marginally punched for engagement with the pin feeding device of the writing machine for advancing the envelopes through the machine in aligned relation with the writing position thereof.

15. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through a machine, including a plurality of envelopes arranged in a strip-like formation and V-shaped strips embracing the ends of the envelopes for holding the envelopes in spaced relation whereby the envelopes may be fed collectively and successively through the writing machine, the margin of the V-shaped strip extending beyond the envelope being marginally punched for engagement with the pin feeding device of the writing machine for advancing the envelopes through the machine in aligned relation with the writing position thereof.

16. An envelope assembly for use in a writing machine provided with a pin feeding device for advancing the writing material through a machine, including a plurality of envelopes arranged in a strip-like formation, said envelopes being provided at the side margins with pin feed apertures, said envelopes being adapted to be fed through the writing machine in consecutive and successive order.

17. An assembly of series connected envelopes for use in an automatic pin wheel feed typewriter device, said envelopes consisting of individual envelopes held together end to end in consecutive order, said envelopes being provided with feed holes for operation with the automatic pin wheel feed typewriter device.

18. An assembly of series connected envelopes for use in an automatic pin wheel feed typewriter device, said envelopes consisting of individual envelopes held together end to end in consecutive order, said envelopes being provided with marginal feed holes for operation with the automatic pin wheel typewriter device.

19. An assembly of individual envelopes for use in an automatic pin feed typewriter device, said envelopes operatively connected together in consecutive order, each envelope being provided with feed holes for feeding through an automatic pin feed typewriter device, and means for detaching the envelopes from each other after the feeding operation.

20. An assembly of series connected envelopes to be progressively advanced past the writing position of a writing machine having feeding means, comprising a plurality of individual envelopes arranged in a continuous sequence, continuous carrier strips with which the envelopes are detachably engageable in systematic order, and means carried by the strips with which the feeding means of the writing machine is engageable independently of the envelopes.

21. An assembly of series connected envelopes for progressive advancement past the writing position of a writing machine having a traveling pin type feeding device, including a series of individual envelopes interconnected into a continuous succession, a portion of such envelope assembly having therein a succession of spaced cut-out areas in which the pin type feeding device of the writing machine is engageable to progressively advance the envelopes past the writing position.

22. An assembly of individual envelopes for use in a writing machine having a positive feed device, said envelopes being operatively connected together in consecutive order into a continuous

strip having cutout areas cooperating with the positive feed device to advance the strip through the writing machine, said strip being separable into individual envelopes after the feeding operation.

23. An assembly of series connected envelopes for use in a writing machine having a pin type feeding device, consisting of a plurality of individual envelopes held together in a continuous succession, including a portion of the assembly provided with feed cutout areas for engagement of the pin type feeding device of the writing machine.

24. An assembly of series connected envelopes for use in a writing machine having a pin type feeding device, consisting of a plurality of individual envelopes detachably interconnected into a continuous sequence, said assembly including a marginal apertured portion for operative engagement therein of the pin type feeding device of the writing machine.

25. An assembly of series connected envelopes for use in a writing machine having a pin type feeding device, consisting of a plurality of individual envelopes and interconnecting means detachably holding the envelopes together in systematic sequence said envelope assembly having therein spaced apertures for operative engagement therein of the pin type feeding device of the writing machine.

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