Sept. 15, 1942. D. C. K. KENNEDY 2,295,903

CARD PATCHING MACHINE

Filed April 7, 1941 3 Sheets-Sheet 1

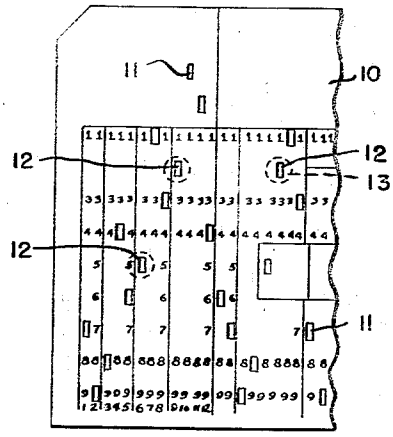


FIG. 1.

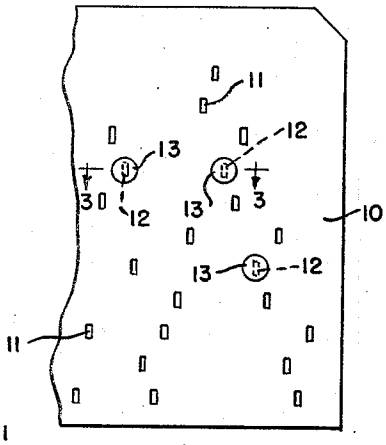


FIG. 2.

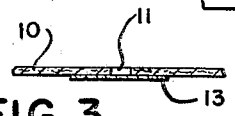


FIG. 3.

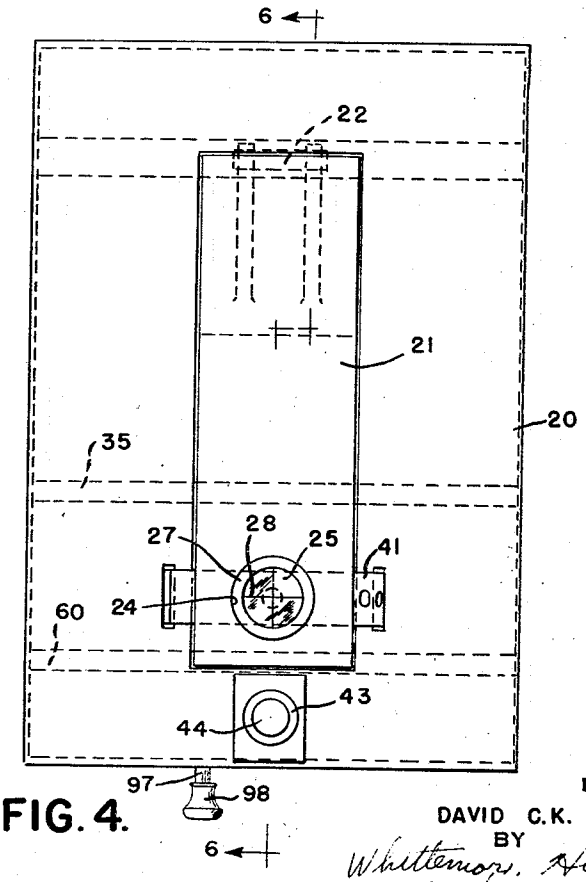


FIG. 4.

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CARD PATCHING MACHINE

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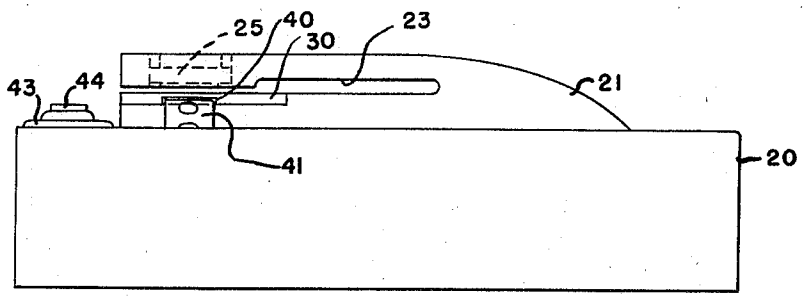


FIG.5.

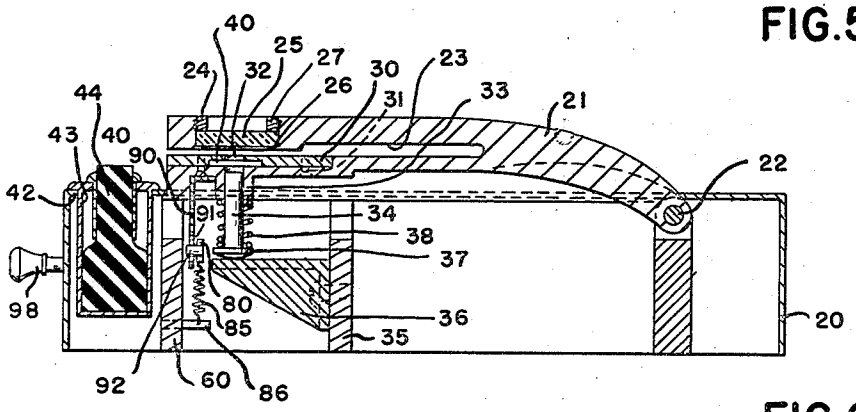


FIG.6.

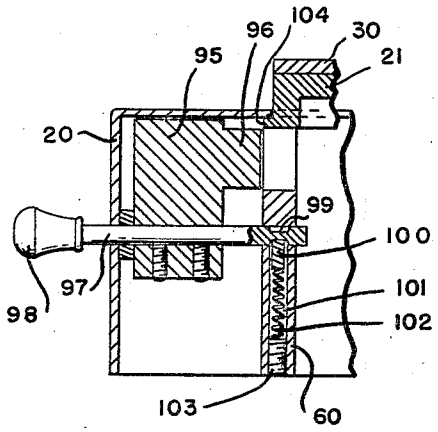


FIG. 7.

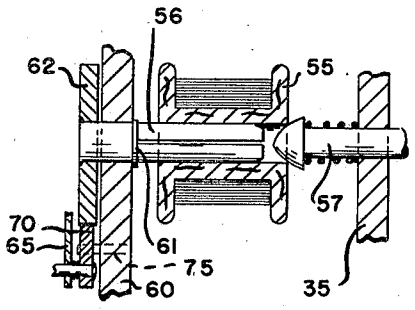


FIG.8.

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CARD PATCHING MACHINE

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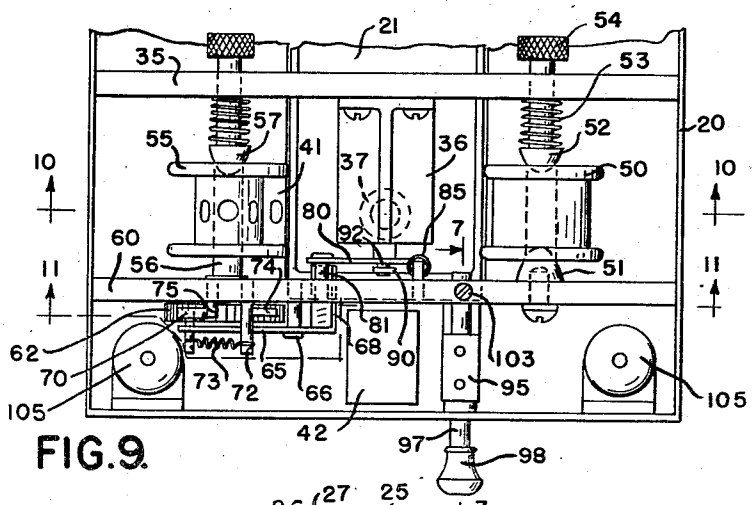


FIG.9.

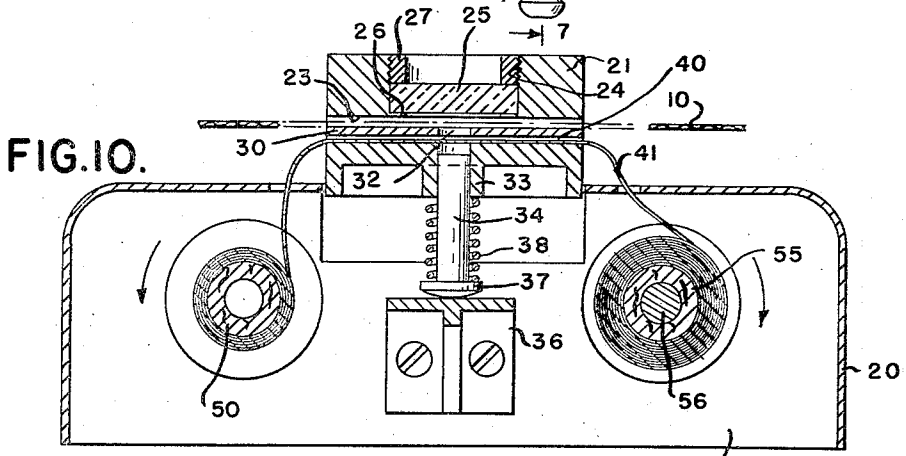


FIG.10.

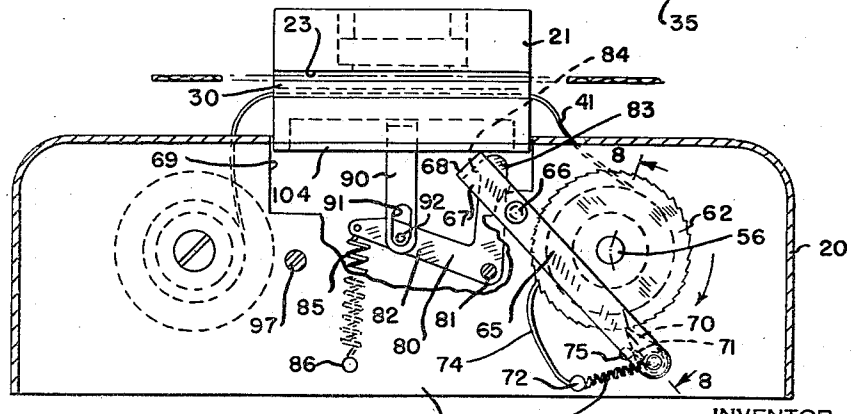


FIG.11.

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UNITED STATES PATENT OFFICE

2,295,903

CARD PATCHING MACHINE

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Application April 7, 1941, Serial No. 387,373

24 Claims. (Cl. 216—29)

The present invention relates to a patch affixing device for tabulating cards.

At the present time punched tabulating cards are widely used for assembling, tabulating and analyzing data in conjunction with specially designed machines. These cards have holes punched therein at appropriate places, through which electrical contacts are established by suitable mechanism.

In the past it has been the practice to repair cards of this sort, when a hole is punched therein at the wrong place, by adhering a small patch of thin paper to the rear of the card. The affixing of a small patch to the rear of an improperly punched hole has been very troublesome for a number of reasons. In the first place, it was necessary to use a small patch cut to the dimension desired, which was in itself difficult to handle. In the second place, these patches, which were adhesive coated, had to be moistened before being affixed. Ordinarily the operator held the patch to be affixed by one corner during the moistening operation, and therefore one corner of the patch was not moistened and would not become adhered. Finally, where a number of holes had been punched in the card, it was difficult to recognize the improperly punched hole from the rear, and in some cases the patch was improperly affixed to a correctly punched hole, leaving the incorrectly punched hole unpatched.

The present device overcomes all of these difficulties in a simple and efficient manner, and provides mechanism for rapidly and accurately applying an adhesive coated patch to the rear of an improperly punched hole in cards of the character described.

Briefly described, the present device comprises spaced aligned locator and applicator means adapted to receive a card therebetween, with the rear of the card adjacent the applicator and the face of the card adapted to cooperate with the locator. The locator conveniently takes the form of a transparent view plate provided with indexing means, such for example as cross hairs. The applicator, in the preferred form of my invention illustrated herein, takes the form of an apertured die plate in combination with a relatively movable plunger. A continuous strip of adhesive coated material is received between the apertured die and the plunger in position to have a small patch cut therefrom when the plunger moves relative to the die. This patch is carried by the plunger into engagement with the rear surface of the card and is adhesively attached thereto. Conveniently the rear surface of the card is moistened before the operation.

Means automatically operable by the cutting and applying operation are provided for advancing the adhesive material in step by step relation, and other means are provided for preventing feeding of the tape except when the punch and apertured die plate are separated.

With the foregoing general description in mind, it is an object of the present invention to provide a device of the character described, characterized by cooperating spaced, aligned locator and applicator means.

It is a further object of the present invention to provide a device of the character described, having spaced, aligned locator means and cutting and applying means.

It is a further object of the invention to provide a simple and efficient means for cutting and applying adhesive patches to the rear of a card in alignment with indicia most readily recognizable from the front of the card.

Other objects of the invention will be apparent as the description proceeds, and when taken in conjunction with the accompanying drawings, wherein:

Figure 1 is a fragmentary elevation of the face of a card of the type referred to;

Figure 2 is a fragmentary rear elevation of the same card;

Figure 3 is a section on the line 3—3, Figure 2, showing a patch affixed to a hole in the card;

Figure 4 is a top plan view of my improved patch affixing device;

Figure 5 is a side elevation of the device;

Figure 6 is a longitudinal section on the line 6—6, Figure 4;

Figure 7 is a fragmentary section on the line 7—7, Figure 9;

Figure 8 is a fragmentary section on the line 8—8, Figure 11;

Figure 9 is a fragmentary bottom elevation of the device;

Figure 10 is a section on the line 10—10, Figure 9; and

Figure 11 is a section on the line 11—11, Figure 9.

I have illustrated in Figures 1 to 3 the type of tabulating card referred to. As seen in Figure 1, the card 10 has printed matter thereon, as indicated, and is adapted to have holes or openings 11 punched therein by a suitable machine. In this figure I have indicated at 12 certain holes which have been erroneously punched and to which repair patches are to be affixed at the rear surface of the card. These patches are shown at 13 in Figures 2 and 3, and preferably are small, round patches of adhesive coated thin paper. Such paper is commercially available in roll form. The purpose of the paper is to prevent electrical contact being established through improperly punched holes by mechanism normaly employed with these cards.

By comparing Figures 1 and 2, it will be observed that an improperly punched hole 12 may

be readily located at the front of the card with reference to the printed matter thereon, but that it is very difficult to pick out the same improperly punched hole from the rear of the card where the printed matter is not visible.

The device which I have developed for the purpose of cutting and applying patches to the rear of improperly punched holes is seen in Figures 4 to 11, inclusive. This device comprises a base **20** which may be a relatively sturdy casting, or may be otherwise formed as desired. The base **20** carries a movable frame portion **21**, which in the embodiment illustrated takes the form of a lever pivoted to the base, as indicated at **22**. The frame or lever **21** is provided with a deep groove **23**, opening at the free end of the lever **21** and providing space for the reception of a tabulating card. In order that the device may be employed to repair an improperly punched hole at any point in the card, it will be appreciated that the depth of the groove **23** will be sufficient to receive at least half and preferably the entire width of a tabulating card therein. The lever **21** overlying the groove **23** has an opening **24** therein for the reception of a view plate **25**, which is shown as retained in assembled position against a thin seating flange **26** by means of a bezel **27**, illustrated as threaded into the opening **24**. As best seen in Figure 4, the view plate **25** may conveniently be provided with cross hairs or marks **28** for accurate centering of the improperly punched hole therebeneath.

The free end of the lever **21**, beneath the groove **23** and in alignment with view plate **25**, is provided with a removable apertured die **30**, shown as detachably secured thereto as by means of screws **31** or the like. The die **30** is provided with an opening **32** which is of the size to which the patches are to be cut.

The free end of the lever **21** is provided with a depending apertured boss **33** which receives a cutting and applying plunger element **34** in accurately guided relation. The plunger **34** is accurately aligned with the opening **32** in the die plate **30**, and is adapted to cooperate therewith to cut a small disc of adhesive coated material and to move upward relative thereto in a manner to press the cut patch against the lower surface of a tabulating card.

The base **20** is provided with a web **35** to which is secured a ledge **36** upon which the lower end of the plunger **34** is adapted to rest. Intermediate the apertured boss **33** and head **37** of the plunger **34** is a compression spring **38**. The spring **38** tends to rock the lever **21** upwardly or in a clockwise direction, as seen in Figure 6. The head **37** of the plunger **34** rests loosely on the ledge **36**, since an arcuate motion is imparted thereto by rocking of the lever **21** about its pivot axis **22**. It is necessary for the plunger **37** to be retained in accurately guided registry with the opening **32** of the die plate **30**.

The die plate **30** is provided with a transverse slot **40** for the reception of a continuous strip **41** of adhesive coated material which is adapted to be fed therethrough by mechanism later to be described.

Adjacent the front of the base **20** I provide an opening **42** for the reception of a well **43** adapted to contain a sponge **44**. The well **43** is filled with water and the sponge **44** extends slightly above the upper surface of the well **43**. When a card is to be repaired, the area adjacent the improperly punched hole is moistened by contacting the same with the upwardly projecting portion of the sponge **44**, and the card is then inserted into the groove or slot **23**.

The cutting and applying step is carried out by depressing the lever **21** manually. Downward motion of the lever **21** causes the plunger **34** to pass through the opening **32** in the die plate, thus cutting a small disc of adhesive coated material from the strip **41** previously referred to. Further movement of the lever downwardly moves the card down into contact with the adhesive coated material which remains on the upper flat end of the plunger **34**. Since the rear or lower surface of the card is moistened, the pressure thus developed affixes the patch to the rear of the improperly punched hole. The hole to be repaired serves as located indicia visible from the upper side of the card and is, of course, centered beneath cross hairs **28** of the view plate **25**, and the cross hairs are in aligned relation with the plunger **34** so that the patch is affixed in accurately centered relation with respect to the hole, as viewed and identified from the front or upper side of the card.

Means are provided for automatically advancing the strip material **41** in a step by step manner. It will be appreciated, however, that this step by step advance of the strip material **41** must be timed to take place after the lever **21** has moved upwardly on its idle stroke a distance sufficient to withdraw the plunger from the die plate **30**, as otherwise the strip **41** would be torn. The means for accomplishing this function are best seen in Figures 6, and 8 to 11, inclusive.

The strip **41** is supplied on a spool **50** which is held between centers **51** and **52**, the center **52** being provided with a compression spring **53** and an operating plunger **54** for replacing spools and for retaining spools in properly aligned position.

As best seen in Figure 8, a feed spool **55** is provided to which one end of the strip material contained on the supply spool **50** is secured in any convenient manner. The feed spool **55** is mounted for feeding rotation, and for this purpose I have indicated a split resilient mounting shaft **56** over which the spool **55** is forced. The spool **55** is retained on the shaft **56** by a spring pressed center **57**. The shaft **56**, as best seen in Figure 9, is mounted for rotation in a web **60**, extending transversely of the base **20** and is retained therein by a ring **61**. At the opposite side of the web **60** from the spool **55**, the shaft **56** is provided with a ratchet wheel **62**, best seen in Figure 11. The ratchet wheel **62** is mounted on the end of the shaft **56** and is held thereon against rotation by any suitable means.

An operating lever **65** is pivoted to the web **60**, as indicated at **66**, and has an upper arm **67**, provided with an offset portion **68**, which extends through an opening **69** in the web **60** and underlies the lever **21** so as to be engaged thereby. The opposite end of the lever **67** is provided with a pawl **70** which is biased by a spring **71** into engagement with the teeth of the ratchet disc **62**. Also mounted on the web **60** is a stud **72** to which is secured a tension spring **73**, the other end of which is secured to the lower end of the lever **65**, as seen in Figure 11. The spring **73** continually biases the lever **65** in a clockwise direction.

A keeper spring **74** is also carried by the stud **72**, and has a free end engaging the ratchet teeth of the disc **62**. The keeper spring **74** prevents counterclockwise rotation of the ratchet disc **62**, while permitting substantially free clockwise rotation as imparted thereto by the spring pressed pawl **70**. Pin **75** carried by the web **60**

extends into the path of the pawl 70, as best seen in Figure 8, and serves to limit clockwise rotation of the lever 65 under the influence of the spring 73.

The offset portion 68 of the lever 65, as previously described, underlies the free end of the lever 21. When the lever 21 is moved downwardly on a cutting and applying stroke, the lever 65 is rotated in a counterclockwise direction, and the spring pressed pawl 70 slides over the teeth of the ratchet disc 72 to a new engaging position. At this time the spring 73 is tensioned, thus energizing the lever 65 for subsequent operation. As previously stated, however, it is necessary to delay the feeding operation of the tape 41 until such time as the apertured die plate 30 and the plunger 34 have moved out of cutting relation with each other.

The means for delaying the feeding operation takes the form of a latch 80, pivoted as indicated at 81 to the web 60. The latch comprises a bell crank having arms 82 and 83. The arm 83 adjacent its upper end is provided with a projecting lip 84. The free end of the arm 82 has attached thereto a tension spring 85, secured at its other end as indicated at 86 to the web 60.

As the lever 65 is moved in a counterclockwise direction, the offset portion 68 moves in an arc about the center 66, until eventually it reaches a position where the lip 84 of the latch 80 engages thereover. Tension spring 85 retains the latch in latching position, thus overcoming the tension of the spring 73 which tends to return the lever 65 on its clockwise stroke.

When the lever or frame 21 moves upwardly out of engagement with the offset portion 68, the lever 65 is retained in latched position until the latch is released.

Secured to the underside of the frame or lever 21 is a depending arm 90 having an elongated slot 91 therein. The arm 82 of the bell crank 80 is provided with a pin 92 received within the slot 91. As the frame or lever 21 reaches its uppermost position on its idle or return stroke, the pin 92 is engaged by the lower end of the slot 91, thus moving the bell crank 80 in a clockwise direction a distance sufficient to disengage the lip 84 from the projecting portion 68 of the actuating lever 65. The actuating lever 65 at this time moves in a clockwise direction under the influence of the tension spring 73, and a rotation is imparted to the ratchet disc 62 in a clockwise direction. As previously described, the ratchet disc 62 is connected in driving relation to the spool 55 so that the adhesive tape 41 is advanced in a step by step manner.

It will be appreciated that upon downward movement of the frame or lever 21 a small disc of adhesive coated material is cut from the tape 41, whether or not a card is received within the groove 23 of the frame or lever 21. In order to prevent an accumulation of discs to be gathered by operation of the device when no card is present therein, I have provided a lock which will prevent downward movement of the lever or frame 21, except when the lock is released. This lock is best illustrated in Figure 7 and comprises a block 95 mounted in the base 10 between the front edge thereof and the web 60. The block 95 has a projection 96 adapted to be moved forwardly under the free edge of the lever 21 so as to prevent downward movement thereof. An actuator for the block 95 takes the form of a rod 97, having a manual button 98 attached thereto. The rod 97 is provided with a reduced annular groove 99 adjacent its free end with which is adapted to cooperate a spring pressed latch 100 received within an opening 101 in the web 60. A compression spring 102 is provided, biasing the latch 100 upwardly, the spring being retained in the opening 101 by means of a threaded plug 103.

In order to limit upward movement of the frame or lever 21, I provide the same with a forwardly extending flange 104, as best seen in Figure 7, which is adapted to be received beneath the upper portion of the base 10. Downward movement of the frame or lever 21 is limited by engagement of the plunger 34 with a tabulating card received within the groove 23.

Conveniently the device may be supported on rubber pads 105, two of which are indicated in Figure 9.

Referring again to Figure 10, it will be observed that when the frame or lever 21 is moved downwardly so as to cut a disc from the tape 41, the disc will be brought into contact with the under surface of the card 10 while the card is spaced slightly from the underside of the view plate 25. In most cases, sufficient pressure will be applied to firmly affix the adhesive coated disc to the rear surface of the card without bringing the view plate 25 into rigid engagement with the card and the underlying plunger 34. In other words, a slight cushioning effect will be had by reason of the thin ledge 26 which underlies the view plate 25.

While I have illustrated and described a single preferred embodiment of my patch affixing device for tabulating cards, it will be understood that this specific description has been made solely to enable those skilled in the art to practice the invention, the scope of which is indicated by the appended claims.

What I claim as my invention is:

1. A device for applying patches to the rear of a card by reference solely to indicia viewed from the front of said card comprising a transparent view plate having locating marks thereon, an applicator adjacent said view plate in registry with said marks, said applicator and view plate being relatively movable toward each other, whereby a card positioned between said applicator and said view plate with a portion of its front face in registry with said locating marks will receive a patch on its rear surface in registry therewith upon relative movement toward each other between said view plate and applicator.

2. A device for applying patches to the rear of a card by reference solely to indicia viewed from the front of said card comprising a transparent view plate having locating marks thereon, an applicator adjacent said view plate in registry with said marks, said applicator comprising a die, and a punch element relatively movable toward said plate, said punch element adapted with said die to cut a patch from a strip of material and thereafter to move said patch into contact with the rear surface of a card positioned between said view plate and said applicator.

3. A device of the class described comprising a die, a relatively movable punch element cooperable therewith, means for positioning strip material adjacent said die, feeding means for said strip material energized by relative approach between said die and punch, and delay means cooperating with said feeding means for delaying feeding until said die and punch have separated.

4. A device of the class described comprising a

die, a relatively movable punch element cooperable therewith, means for positioning strip material adjacent said die, feeding means for said strip material operated by relative movement between said die and punch, and delay means cooperating with said feeding means for delaying feeding until said die and punch have separated, said feeding means comprising spring operated ratchet means, and said delay means comprising a latch preventing actuation of said ratchet means until substantial completion of a die cutting operation.

5. A device of the class described comprising a die, a relatively movable punch element cooperable therewith, means for positioning strip material adjacent said die, spring operated ratchet feeding means for feeding said strip step by step, latch means cooperating with said feeding means, said feeding means being tensioned and latched upon relative movement between said die and punch in cutting directions, said latch being released to permit feeding of said strip only upon substantial completion of relative movement between said die and punch in the opposite direction.

6. A patch cutting and applying device comprising a base, a lever pivoted to said base and resiliently biased to inoperative position, said lever having a transverse slot for receiving a card having visible indicia on its front face, a transparent view plate in said lever over said slot, an apertured die in said lever beneath said slot and aligned with said plate, a punch on said base having a portion movable through said die upon pivoting of said lever, and means for supporting strip material between said die and punch when said lever is in operative position.

7. A patch cutting and applying device comprising a base, a lever pivoted to said base and resiliently biased to inoperative position, said lever having a transverse slot for receiving a card having visible indicia on its front face, a transparent view plate in said lever over said slot, an apertured die in said lever beneath said slot and aligned with said plate, a punch on said base having a portion movable through said die upon pivoting of said lever, means for supporting strip material between said die and punch when said lever is in operative position, and means for feeding said strip material step by step.

8. A patch cutting and applying device comprising a base, a lever pivoted to said base and resiliently biased to inoperative position, said lever having a transverse slot for receiving a card having visible indicia on its front face, a transparent view plate in said lever over said slot, an apertured die in said lever beneath said slot and aligned with said plate, a punch on said base having a portion movable through said die upon pivoting of said lever, means for supporting strip material between said die and punch when said lever is in operative position, and means for feeding said strip material step by step, said last means comprising an actuator, means for energizing said actuator upon movement of said lever to operative position, and means delaying operation of said actuator until substantial completion of return movement of said lever to inoperative position.

9. A device for cutting and applying patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a transparent view plate, means for receiving a card with its front face directly beneath said view plate, an applicator beneath said plate including a relatively movable element adapted adhesively to apply a patch to the rear of said card in alignment with indicia centered by said view plate.

10. A device for cutting and applying patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a transparent view plate, means for receiving a card with its front face directly beneath said view plate, an applicator beneath said plate including a relatively movable element adapted to engage the rear of said card and to press the same toward said view plate to apply an adhesive patch to the rear of said card in alignment with indicia centered by said view plate.

11. A device for cutting and applying patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a base, a frame mounted for vertical movement on said base, said frame having a deep groove for receiving a card at one end, a transparent view plate in said frame overlying said groove, an apertured die in said frame beneath said groove and aligned with said view plate, a plunger on said base slidable through the aperture in said die into substantial abutment with said plate upon downward movement of said frame, a transverse slot in said frame beneath said groove for receiving a strip of adhesive coated material, and a moistener on said base adjacent said groove for moistening an area at the rear of said card.

12. A device for cutting and apply patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a base, a frame mounted for vertical movement on said base, said frame having a deep groove for receiving a card at one end, a transparent view plate in said frame overlying said groove, an apertured die in said frame beneath said groove and aligned with said view plate, a plunger on said base slidable through the aperture in said die into substantial abutment with said plate upon downward movement of said frame, a transverse slot in said frame beneath said groove for receiving a strip of adhesive coated material, and feed and supply rolls for feeding adhesive strip material through said slot.

13. A device for cutting and applying patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a base, a frame mounted for vertical movement on said base, said frame having a deep groove for receiving a card at one end, a transparent view plate in said frame overlying said groove, an apertured die in said frame beneath said groove and aligned with said view plate, a plunger on said base slidable through the aperture in said die into substantial abutment with said plate upon downward movement of said frame, a transverse slot in said frame beneath said groove for receiving a strip of adhesive coated material, and feed and supply rolls for feeding adhesive strip material through said slot, and step by step feeding mechanism actuated by vertical movement of said frame associated with said feed roll.

14. A device for cutting and apply patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a base, a frame mounted for vertical movement on said base, said frame having a deep groove for receiving a card at one end, a transparent view plate in said frame overlying

said groove, an apertured die in said frame beneath said groove and aligned with said view plate, a plunger on said base slidable through the aperture in said die into substantial abutment with said plate upon downward movement of said frame, a transverse slot in said frame beneath said groove for receiving a strip of adhesive coated material, and feed and supply rolls for feeding adhesive strip material through said slot, and step by step feeding mechanism actuated by vertical movement of said frame associated with said feed roll, said mechanism comprising a ratchet wheel connected to said feed roll, a spring pressed lever having a feed pawl engaging said wheel, said lever being moved by downward movement of said frame in an idle stroke, a latch engageable with said lever upon completion of downward movement of said frame, and means carried by said frame adapted to release said latch upon completion of upward movement of said frame.

15. A device for applying adhesive patches to the rear of a card in registry with indicia identifiable most readily from the front of said card which comprises an applicator, means for receiving a card with its rear surface adjacent said applicator, and a locator having means cooperable with said indicia, said locator and said applictor being aligned whereby when said card is properly positioned between said applicator and said locator by said locator with reference to said indicia, said applicator will apply a patch to the rear of said card in registry with said indicia.

16. In the method of applying a patch to the rear surface of a card having indicia on the front face thereof, the steps of locating the portion of the rear surface to which the patch is to be affixed relative to applying means by viewing the indicia on the front face of the card, and applying the patch to the rear surface of said card while viewing said indicia from the front.

17. A device for applying patches to a perforated card comprising locating means and a patch carrying element at the rear of said locating means, said means and said element being relatively movable toward and away from each other, a card being receivable between said means and element, said locating means having parts visible from the front by means of which a perforated portion of the card, viewed from one surface of the card, may be located thereby to receive a patch on its other surface over said perforation.

18. A device for applying patches to the rear of a card comprising locating means and a patch carrying element at the rear of said locating means, said means and said element being relatively movable toward and away from each other, a card being receivable between said means and said element, said locating means having parts visible from the front by means of which a portion of the card carrying indicia on the front face of the card may be located thereby to receive a patch on its rear surface in registry with said indicia.

19. A device for cutting and applying patches to the rear of a card comprising locating means and a patch cutting and applying element at the rear of said locating means, said means and said element being relatively movable toward and away from each other, a card being receivable between said means and said element, said locating means having parts visible from the front by means of which a portion of the card carrying indicia on the front face of the card may be located thereby to receive a patch on its rear surface in registry with said indicia, and a supply of patch material in position to have a patch cut therefrom upon relative approach of said locating means and said patch cutting and applying element.

20. A device for applying patches to the rear of a card comprising a patch applying element, means for receiving said card with its rear surface adjacent said element, a locator having means visible from the front by means of which a portion of the card carrying indicia at the front of the card and spaced inwardly from the edges thereof may be located relative to said element by reference to said indicia at the front of said card.

21. A device for cutting and applying patches to the rear of a card in registry with indicia most readily identifiable from the front of said card, comprising a transparent view plate, a support for said view plate extending slightly below the lower surface of said view plate, an applicator directly beneath said view plate including an element relatively movable toward said view plate to apply an adhesive patch to the rear of a card inserted between said view plate and said element in alignment with indicia centered by said view plate, the lower surface of said support tending to prevent direct engagement between said view plate and said card so as to cushion the relative approach between said view plate and said element.

22. A device for cutting and applying patches to the rear of a card in registry with indicia most readily identifiable from the front of said card comprising a transparent view plate, means for receiving a card with its front face directly beneath said view plate, an applicator beneath said plate including a relatively movable element adapted to engage the rear of said card and to press the same toward said view plate to apply an adhesive patch to the rear of said card in alignment with indicia centered by said view plate, and means normally spacing the portion of said card directly over said element from the bottom of said view plate to provide a cushion effect.

23. In the method of applying a patch to one side of a card over a perforation therein, the steps of locating the perforation over which the patch is to be affixed relative to applying means adjacent the said one side of said card by viewing the perforation from the other side of the card, and applying the patch to the said one side of the card while viewing said perforation from the said other side thereof.

24. A device for cutting and applying patches to one surface of a card over a perforation therein while locating said card by viewing said card from the other surface thereof, comprising a transparent view plate, means for receiving said card with its said other surface directly beneath said view plate, an applicator beneath said plate including a relatively movable element adapted to adhesively apply a patch to the said one surface of said card in alignment with a perforation centered by said view plate.

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