July 10, 1962 P. BAIA 3,043,188

SPLICE TAPES

Filed Feb. 12, 1960

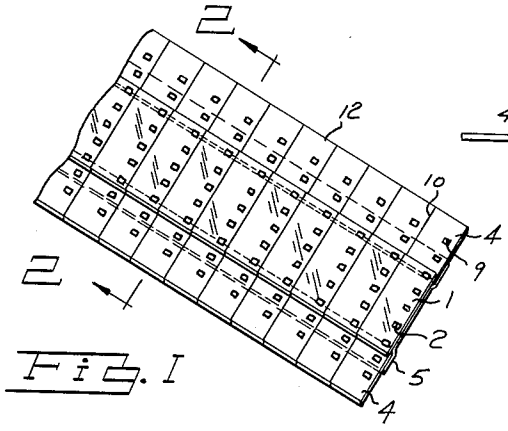


Fig. 1

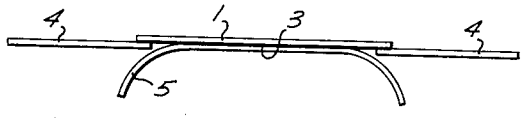


Fig. 2

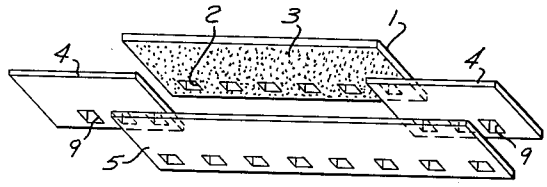


Fig. 3

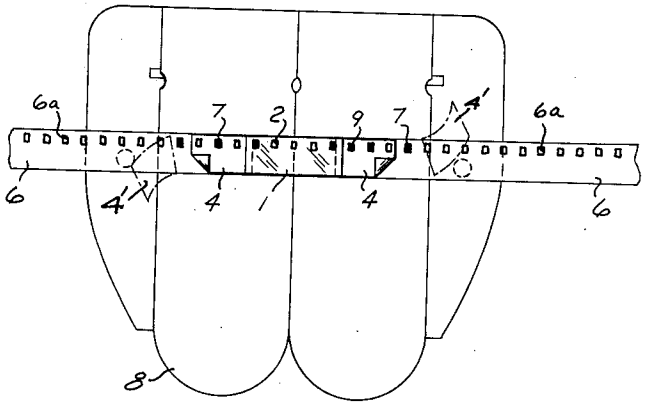


Fig. 4

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SPLICE TAPES

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This invention relates to improvements in splice tapes, and refers particularly to splice tapes for joining contiguous ends of motion picture film.

It is an object of the invention to provide a splice tape including a joiner strip coated on one side with pressure sensitive adhesive, removable tabs projecting outwardly from opposite extremities of the joiner strip for holding it while placing it in position upon contiguous extremities of two lengths of film, and a protective member extending over the joiner strip and projecting beyond opposite extremities of the latter for shielding the adhesive on the said strip prior to its being applied to a film.

Another object of the invention is to provide such a splice tape wherein the protective member is sufficiently coated with silicon or other substance having similar properties to decrease its adhesion to the pressure sensitive adhesive so that it may be readily removed therefrom; and wherein the extremities of the protective member project freely over the removable tabs to permit ready removal of the said member, whereupon the tabs may be employed as handles for application of the joiner strip to the contiguous ends of the lengths of film to be connected to one another.

A further object of the inventon is to provide such a splice tape wherein the inner extremities of the tabs are in sufficiently firm adhesive engagement for a short distance with opposite ends of the pressure sensitive adhesive that they will not become accidentally disengaged therefrom during handling of the joiner strip but may be pulled therefrom after the latter has been applied to abutting film ends. It will further be noted that before splicing it is customary to mount the abutting ends of conventional perforated film lengths on pins on a conventional splicer, and, to insure proper positioning of the joiner strip upon the film ends, to mount other perforations formed through the joiner strip upon the said pins.

Thus another object of the invention is to provide such a splice tape wherefrom the protecting member may be readily removed to expose the adhesive face of the joiner strip, whereupon the tabs may be utilized for holding opposite ends of the joiner strip and inserting perforations in the latter over the pins on the splicer thereby to align the strip with the abutting ends of the film.

Having thus stated some of the objects and advantages of the invention I will now describe an embodiment thereof with the aid of the accompanying drawing, in which:

FIGURE 1 is a perspective view showing a sheet of splice tapes, and

FIGURE 2 is an enlarged section taken substantially on the line 2—2 of FIGURE 1.

FIGURE 3 is an enlarged exploded view in perspective looking on the underside of the parts of the splice tape, and

FIGURE 4 is a plan view of a conventional splicer with portions of a film thereon and a splice being made.

Referring to the drawing, my splice tape includes a joiner strip 1 one face of which is coated with a pressure sensitive adhesive 3. In engagement with the adhesive adjacent opposite extremities of the joiner strip and projecting outwardly therefrom are tabs 4. These tabs engage the opposite ends of the adhesive for only a short distance to afford sufficient hold to prevent accidental disengagement from the joiner strip when they are being

used as handles therefor, and are pulled from the said strip after a splice has been made. Until a splice is to be made the adhesive coating between the adjacent ends of the tabs is shielded by a protective member 5 one face of which is treated with silicon or other material having like properties, so that only a sufficient bond is made between the coating and the treated surface to prevent accidental detachment. Thus the protective member, which is longer than the joiner strip, is readily removable for disposal whenever the joined strip is to be utilized. The opposite ends of the protective member extend freely over the tabs but are not directly connected to them.

The joiner strip 1, the tabs 4 and the protective member 5, which together form the splice tape, are all of the same width and are usually made up into a sheet as shown at 12 in FIGURE 1 by attaching widths of the tab material and the protective member material to the adhesive coating of the joiner strip material. The sheets are then rouletted as indicated at 10 for separate removal of each splice tape. The strip, the tabs and the member are made of suitable material, such as paper, fabric or the like. The sheets 12 are perforated so that perforations 2 and 9 extend in a longitudinal alignment along the joiner strips 1 and the tabs 4, respectively, and in registry with one another. These perforations are spaced the same distance from the adjacent margins of the strips and tabs as the perforations 6*a* are from the adjacent margins of the film lengths 6 to be spliced, and the width of the strips is the same as that of the film.

FIGURE 4 shows a conventional splicer 8 having a row of upwardly projectng pins 7 to engage the perforations 6*a* of the film portions 6 to be spliced and hold the ends of the latter in abutting relation. The perforations 2 of the joiner strip 1 are then engaged with the pins 7 to extend over both film portions, and the perforations 9 in the tabs 4 may also be engaged with some of the pins 7 to facilitate the mounting of the joiner strip in position. The tabs 4 may be pulled from the joiner strip, as indicated at 4', either prior or subseqeunt to the removal of the spliced tape from the splicer.

While in the foregoing the preferred embodiment of the invention has been described and shown, it is understood that alterations and modifications may be made thereto, provided the said alterations and modifications fall within the scope of the appended claims.

What I claim is:

1. A splicing tape for splicing motion picture film and the like comprising: a strip of joiner material having one face coated with a pressure sensitive adhesive; a strip of tab material extending longitudinally along and overlying each opposite longitudinal margin of said joiner strip and removably secured thereto in contact with said pressure sensitive adhesive on the joiner strip, said tab strips being spaced apart exposing the intermediate portion of the adhesive coated face of the joiner strip and each including a portion projecting laterally beyond the longitudinal marginal edge of said joiner strip, said two projecting portions forming handles for said splicing tape; and a protective strip of material overlying the intermediate exposed portion of the adhesively coated face of said joiner strip between said tab strips and removably secured to the joiner strip in contact with said pressure sensitive adhesive, said protective strip having a width such that opposite marginal portions thereof freely overlie the adjacent margins of said two tab strips secured to said joiner strip; said tape consisting of said joiner strip, said two tab strips and said protective strip being provided with a linearly spaced succession of weakened lines extending transversely across all of said strips, along which lines such strips are separable into individual segments of splicing tape; with that portion of said protec-

tive strip freely overlying the tab strip adapted to be grasped for ready removal of said protective strip from said adhesively coated surface of the joiner strip, and said portions of said tab strips projecting laterally beyond said joiner strip adapted to be grasped for application of the adhesively coated face of said joiner strip to portions of film to be spliced, and said tab strips further adapted to be readily removed from said joiner strip upon application of the latter to a portion of said film.

2. A splicing tape as defined in claim 1 characterized in that said weakened lines extending transversely across said strips are spaced apart a distance equal to the width of film to be spliced.

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