April 20, 1954 F. R. SCHULZ 2,675,636

INDEXING DEVICE

Filed May 20, 1950

Fig. 1.

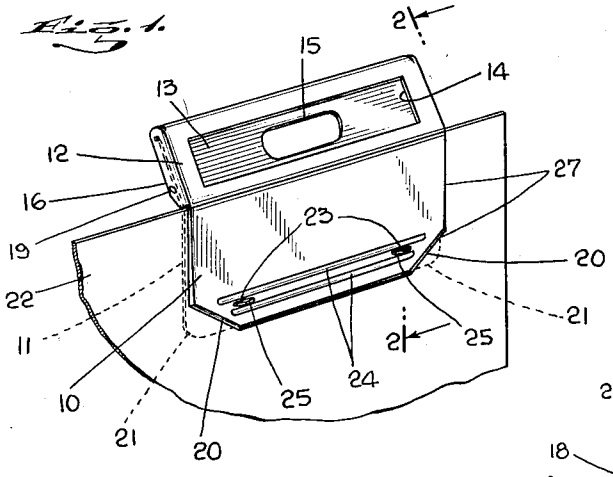


Fig. 2.

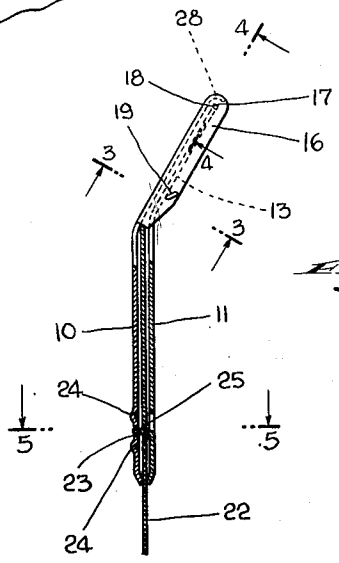


Fig. 3.

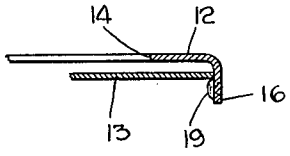


Fig. 5.

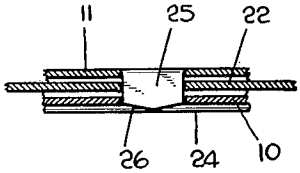
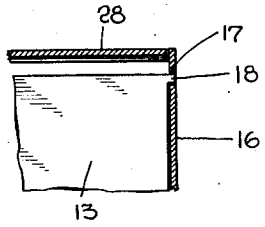


Fig. 4.



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INDEXING DEVICE

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4 Claims. (Cl. 40—13)

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This invention relates to indexing devices of the snap-on type for use in connection with filing sheets, folders and the like to identify, mark or characterize the same. More particularly, the invention deals with a device of the character described comprising a pair of hingedly coupled parts having angularly disposed indexing portions with attaching or mounting end portions having means for piercing the sheet to which the device is attached in securing the device against displacement from said sheet. Still more particularly, the invention deals with a device of the character described having means retaining the parts against displacement from a supporting sheet.

The novel features of the invention will be best understood from the following description, when taken together with the accompanying drawing, in which certain embodiments of the invention are disclosed and, in which, the separate parts are designated by suitable reference characters in each of the views and, in which:

Fig. 1 is a perspective view of the upper portion of a supporting sheet, showing one of my improved devices arranged thereon and omitting the indexing or name card or plate.

Fig. 2 is a side and sectional view of Fig. 1, the section being substantially on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged sectional detail view of the line 3—3 of Fig. 2.

Fig. 4 is an enlarged section on the line 4—4 of Fig. 2; and

Fig. 5 is an enlarged section on the line 5—5 of Fig. 2.

Considering Fig. 2 of the drawing, it will appear that my improved indexing, labeling or marking device comprises two sheet metal parts which, for purposes of description, will be identified as a front part 10 and back part 11. These parts are generally rectangular in form and include upper angularly offset portions 12 and 13, respectively, said portions being substantially parallel when the device is in assembled relationship, as seen in Fig. 2.

The offset portion 12 has a large rectangular opening 14 for visibility of a name plate or card arranged between the parts 12 and 13; whereas the part 13 has an elongated fingerpiece opening 15 to adjust the position of the card.

The upper offset wall portion 12 includes rearwardly extending file flanges 16, both of which are of the same construction, these flanges having, near the upper ends, apertures 17 for the reception of laterally extending pintle portions

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18 on the part 13. Note Fig. 4. The pintle portions 18 are of such size as to freely rotate in the apertures 17. The flanges 16 also have, near their lower ends, angularly disposed inwardly extending elongated beads 19 which form means for retaining the parts 10 and 11 in operation position, as seen in Fig. 2. By disposing the beads or retaining members 19 in the angular position, frictional engagement in yieldably passing the offset end 13 thereover is minimized.

The lower end portion of the front plate 10 has abruptly bevelled corners, as at 20, whereas the corresponding corners of the rear plate 11 are simply rounded, as indicated at 21 but protrude beyond the bevelled corners 20 so as to allow a finger to be pressed against the corners 21 in separating the parts 10 and 11, when it is desired to remove the same from a supporting card or sheet 22.

The lower end portion of the front wall 20 has two elongated and longitudinally extending apertures 23 and the plate 10 above and below the apertures 23 have elongated outwardly pressed beads or ribs 24 which reinforce the lower end of the plate 10 and, at the same time, form raised guards to protect the fingers of the hand from engaging the prongs 25 fashioned from the material of the back plate 11 and extending forwardly at right angles thereto.

Considering Fig. 5 of the drawing, it will appear that the prongs 25 have slightly conical outer ends, as at 26, to provide a shear-like action in piercing the support or mounting sheet 22.

In the use of the device, the front plate 10 is arranged upon the upper edge of a supporting sheet, such as the sheet 22, with the lower edge of the flanges 16 resting upon or adjacent the upper edge of the supporting sheet and with a suitable indexing or marking card disposed upon the inner surface of the offset wall 12; after which, the rear plate 11 is swung forwardly on the pivot pins 18, in which operation, the prongs 25 pierce the sheet 22 and extend into the apertures 23. This completes attachment of the device to the supporting sheet.

In the above described operation, the offset wall 13, or the side edges thereof, frictionally pass over the retaining or latching members 19, which members serve to hold the parts 10 and 11 against accidental displacement from the support. When the occasion should arise to remove the device from the support, the plates 10 and 11 are sprung apart against the resistance of the stop or check members 19, as will be apparent.

It will appear from a consideration of Fig. 1

of the drawing that the lower and side edges, as well as the edges of the bevelled portions **20**, are turned rearwardly or bevelled, as indicated at **27**, so that no sharp edges will prevail upon the surface of the device. It will also be noted that the upper edge of the front offset wall **12** is rounded rearwardly, as indicated at **28**, in Fig. 2 of the drawing, and also illustrated in Fig. 4.

It will be understood that my improved indexing, marking or labeling device can be utilized not only for atachment to a card or folder, but can also be used to secure or attach sheets to the card or folder or, in fact, in attachment of a plurality of sheets. The capacity of the device will depend entirely on the length of the prongs and depth of the side flanges **16** of the device.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A device of the character described, comprising two hingedly coupled plates, one plate having, at its upper portion, an elongated aperture for visibility of a name card disposed between the plates rearwardly of said aperture, said upper portion of both plates being angularly offset, the other portion of one of the plates having spaced slits and the other plate prong members movable through said slits in attachment of the device to a supporting sheet disposed between said plates, frictional means for retaining the plates in assembled relationship to each other on a supporting sheet, said last named means comprising flanges on side edges of the upper portion only of one plate overlying corresponding edges of the opposed plate, and catch devices upon the flanges engaging side edges of the last named plate.

2. A device of the character described, comprising two hingedly coupled plates, one plate having, at its upper portion, an elongated aperture for visibility of a name card disposed between the plates rearwardly of said aperture, one of the plates having spaced slits and the other prong members movable through said slits in attachment of the device to a supporting sheet disposed between said plates, frictional means for retaining the plates in assembled relationship to each other on a supporting sheet, said last named means comprising flanges on side edges of one plate overlying corresponding edges of the opposed plate, catch devices upon the flanges engaging side edges of the last named plate, said catch devices being in the form of inwardly pressed beads arranged angularly on said flanges, and the plate having the slits therein having raised wall portions adjacent said slits.

3. A device of the character described, comprising two hingedly coupled plates, one plate having, at its upper portion, an elongated aperture for visibility of a name card disposed between the plates rearwardly of said aperture, one of the plates having spaced slits and the other prong members movable through said slits in attachment of the device to a supporting sheet disposed between said plates, frictional means for retaining the plates in assembled relationship to each other on a supporting sheet, said last named means comprising flanges on side edges of one plate overlying corresponding edges of the opposed plate, catch devices upon the flanges engaging side edges of the last named plate, said catch devices being in the form of inwardly pressed beads arranged angularly on said flanges, the plate having the slits therein having raised wall portions adjacent said slits, and free edges of said flanged plate being turned inwardly.

4. A device of the character described, comprising two hingedly coupled plates, one plate having, at its upper portion, an elongated aperture for visibility of a name card disposed between the plates rearwardly of said aperture, one of the plates having spaced slits and the other prong members movable through said slits in attachment of the device to a supporting sheet disposed between said plates, frictional means for retaining the plates in assembled relationship to each other on a supporting sheet, said last named means comprising flanges on side edges of one plate overlying corresponding edges of the opposed plate, catch devices upon the flanges engaging side edges of the last named plate, said catch devices being in the form of inwardly pressed beads arranged angularly on said flanges, the plate having the slits therein having raised wall portions adjacent said slits, free edges of said flanged plate being turned inwardly, and upper edge portions of both of said plates being angularly offset.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
1,465,576	Biggs	Aug. 21, 1923
1,564,424	Lynch	Dec. 8, 1925
1,701,770	Canine	Feb. 12, 1929
1,876,208	Davis	Sept. 6, 1932
1,979,932	Beckett	Nov. 6, 1934
2,446,389	Rank	Aug. 3, 1948
2,547,239	Walker	Apr. 3, 1951

FOREIGN PATENTS

Number	Country	Date
613,081	Great Britain	Nov. 22, 1948