

E. E. BELLAMY.  
 DEVICE FOR FORMING DISPLAY SIGNS.  
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1,106,340.

Patented Aug. 4, 1914.

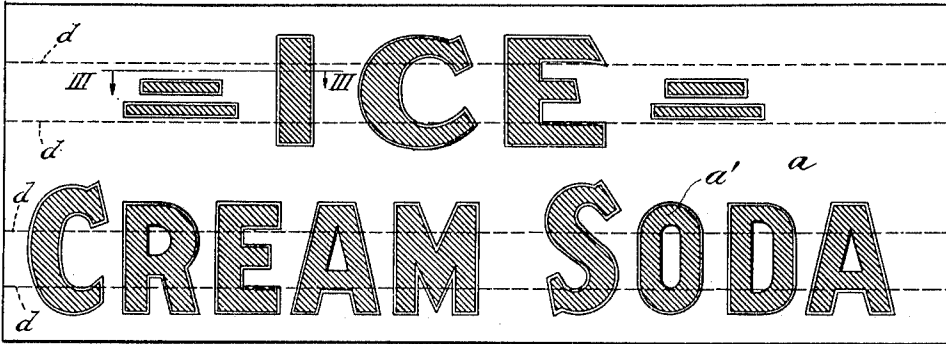


Fig. 1

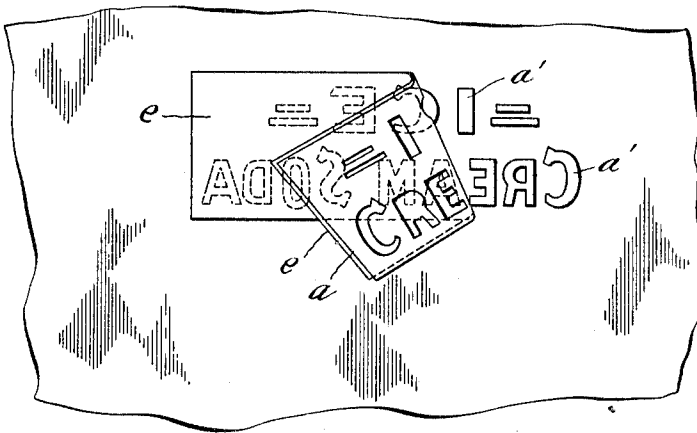


Fig. 2

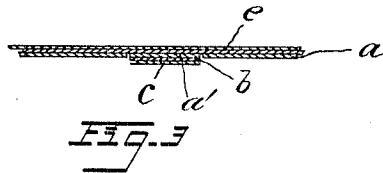


Fig. 3

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# UNITED STATES PATENT OFFICE.

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DEVICE FOR FORMING DISPLAY-SIGNS.

1,106,340.

Specification of Letters Patent.

Patented Aug. 4, 1914.

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*To all whom it may concern:*

Be it known that I, ELMER E. BELLAMY, a citizen of the United States, resident of Lakewood, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Devices for Forming Display-Signs, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention relates to devices for forming display signs, its object being to provide means whereby such a sign may be applied to a suitable surface in an efficient and economical manner.

Said invention consists of means herein-after fully described and particularly set forth in the claims.

The annexed drawings and the following description set forth in detail certain means embodying my invention, the disclosed means, however, constituting but one of various mechanical forms in which the principle of the invention may be applied.

In said annexed drawings:—Figure 1 represents a front elevation of a device embodying my invention. Fig. 2 represents a rear view of a fragmentary portion of a sheet of glass to which a display sign device embodying my invention has been partially applied. Fig. 3 represents a section upon an enlarged scale and greatly exaggerated as to thickness of material and taken upon the plane indicated by line III—III in Fig. 1.

The illustrated embodiment of my invention is arranged for applying a sign to the inside of a sheet of glass forming a window or show-case. The said illustrated device comprises a sheet *a* of sufficiently thin and hence flexible paper upon which is printed by means of suitable inked types a group of sign characters for forming the required legend. After these characters have been printed and the ink *b*, Fig. 3, permitted to dry, a coating *c* of suitable strongly adhesive material such as glue is applied to the inked surface and such application may be made and preferably, by means of the same types, as will be understood, the ink being first removed from the types and the latter then being supplied upon its surface with the adhesive material. The latter then being applied by means of the same machine by which the printing was effected, the types

and printed letters on the sheet are caused to properly register. The glue is then permitted to dry.

After the above steps have been completed, incisions are made through the sheet, coinciding with the outlines of the characters and these incisions may be made in any suitable manner but are preferably made by means of suitable dies, as will be readily understood. The characters *a'* are thus completely severed from the sheet. The latter with the letters in their proper places is then held face downward and paste of lightly adhesive quality is then applied to rectangular portions of the back of the sheet including part of the back surface of the characters, as indicated by the dotted lines *d* in Fig. 1. A second sheet *e* is then applied to the back surface of the sheet *a* before the paste is dry. Each of the characters is therefore caused to adhere to the second sheet and the latter is caused to adhere to sheet *a*, the amount of paste applied being preferably made such as to cause only the central portion of each letter to so adhere. Instead of applying the paste to the back of the sheet *a* and to the back of the characters, the paste may be applied to corresponding rectangular portions of the front of the second sheet *e*, as will be readily understood. The characters are thus held in position for transportation and application.

When it is desired to apply the sign-characters to the surface of the glass, both sheets and characters are suitably moistened so as to soften both the glue on the surface of the characters and the paste holding the characters to the sheet *e*. The entire device so moistened is then applied to the glass with the adhesive surfaces of the characters contiguous to the glass surface. Pressure is then applied to the back of the sheet *e* to smooth the latter and so as to secure a thorough and complete union of the adhesive material or glue *c* on the characters with the said glass surface. After a short lapse of time, sufficient in length to permit the adhesive *c* to become quite fast, one edge of the sheet *a* is grasped and pulled away from the glass, as shown in Fig. 2, until the whole body of the sheet *a* is detached therefrom, the sheet *e* being likewise carried with it. The paste holding the sheet *e* being lightly adhesive, the glue on the characters is strong enough in its adhesive qualities to cause the separation of the sheet

e from the characters by overcoming the adhesion effected by the paste. The entire legend formed by the characters is thus permitted to remain upon the back of the glass plate as is required.

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

1. In a device for forming a display sign, the combination with a sheet having incisions therein defining a sign character; of a second sheet adjacent and secured to said first-named sheet; said sign character being secured to said second sheet.

2. In a device for forming a display sign, the combination with a flexible sheet having incisions defining a sign character; of a second sheet adjacent to the said first-named sheet and secured thereto by means of adhesive material, said character having its reverse side likewise secured to said sheet by means of adhesive material; the obverse side of said character being provided with adhesive material.

3. In a device for forming display signs, the combination of a flexible sheet having

incisions therein defining a sign character; of a second sheet adjacent to the first-named sheet and secured thereto by means of adhesive material applied to longitudinal portions of the opposed faces, such longitudinal portions crossing the sign character; the obverse side of said character being provided with adhesive material.

4. In a device for forming display signs, the combination with a sheet having incisions therein defining a sign character, said character having on its obverse side adhesive material; of a second sheet secured to said first-named sheet adjacent to the reverse side of said character and by means of an adhesive material of less adhesiveness than the adhesive material on the obverse side of said character; the latter being secured to said second sheet by means of said last named adhesive material.

Signed by me, this 22nd day of January, 1914.

ELMER E. BELLAMY

Attested by—

HERMAN EISELE,  
D. M. FINDLING.