Nov. 3, 1925.

1,560,210

C. CHISHOLM

FLEXIBLE PRINTING FORM

Filed Dec. 6, 1923

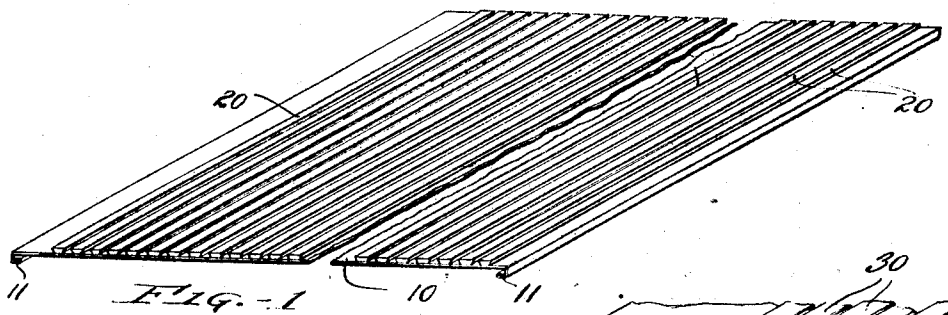



FIG. - 1

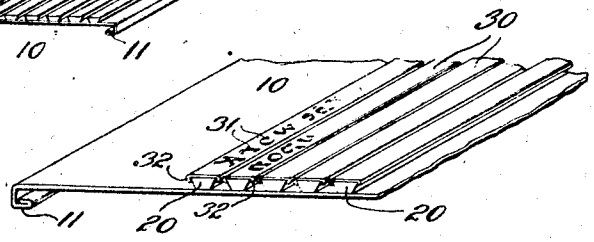



FIG. - 2

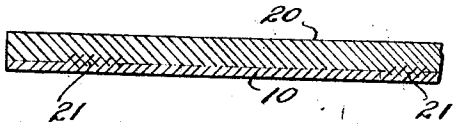



FIG. - 3

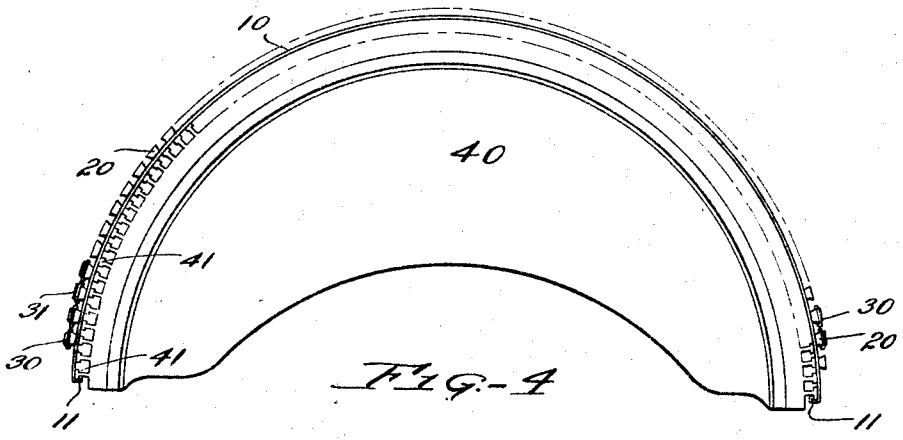



FIG. - 4

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# UNITED STATES PATENT OFFICE.

CLIFTON CHISHOLM, OF CLEVELAND, OHIO, ASSIGNOR TO THE AMERICAN MULTIGRAPH COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

## FLEXIBLE PRINTING FORM.

Application filed December 6, 1923. Serial No. 678,888.

*To all whom it may concern:*

Be it known that I, CLIFTON CHISHOLM, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in a Flexible Printing Form, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The object of this invention is to provide a very simple and efficient flexible form adapted to carry embossed printing strips, whereby a printing blanket is provided, adapted for use in a suitable printing machine. My printing form may be used either on a rotary drum or a flat support as desired.

My flexible form comprises a flexible sheet of metal and a plurality of parallel bars rigidly secured thereto and having undercut edges whereby embossed strips having inwardly flanged edges may be slid over said bars longitudinally thereof, and be thereby retained in place. I find that the metal sheet may have the desired thinness to enable it to be readily flexed at the same time the bars may be effectively secured thereto by electric welding.

In the drawing Fig. 1 is a perspective of my flexible blanket, the same being shown as having a portion intermediately broken out; Fig. 2 is a perspective on an enlarged scale of a portion of said blanket with embossed strips in place; Fig. 3 is a longitudinal section along one of the bars and supporting plate; Fig. 4 is an end view of a type holding segment with the blanket mounted thereon.

As shown in the drawing, 10 indicates a sheet metal plate having the edges 11 thereof curled or bent inwardly to provide suitable means for anchoring the blanket in place. 20 indicates parallel bars, each of trapezoidal form in cross section, whereby, when they are secured by their narrower parallel faces, undercut or overhanging edges are provided. These bars are mounted parallel with each other on the plate 10, and secured thereto by electric welding, preferably by spot welding, as indicated at 21 in Fig. 3.

30 in Figs. 2 and 4 indicate metal strips having on them embossed printing characters 31. These strips have inwardly flanged edges 32, whereby they may be slipped endwise on to the bars 20 and hold themselves thereon by underhanging the wider top surface at the bars.

It will be seen that the construction described is extremely simple and can be cheaply manufactured. Such a blanket carrying embossed strips may be mounted on a flat block for use in an ordinary printing press, or, if desired, may be mounted on the cylinder of a rotary machine. In Fig. 4, I have shown the blanket mounted on a segment 40 of a multigraph machine, in which case the curled-in edges 11 of the blanket extend around the heads of suitable rails 41 of the segment.

I claim:

1. A flexible blanket comprising an uninterrupted flexible sheet of metal, and parallel bars with overhanging edges joined to the face of the sheet.

2. A flexible blanket comprising a flexible sheet of metal, and solid parallel rails with overhanging edges autogeneously joined in spots to the top face of the sheet.

3. The combination of a flexible sheet of metal, and parallel bars each trapezoidal in cross section and resting with its narrower parallel face in contact with the plate, said bars and plate being joined together.

In testimony whereof, I hereunto affix my signature.

CLIFTON CHISHOLM.