May 22, 1923. 1,456,189

E. W. PALMER

BINDER'S PRESSBOARD

Filed April 26, 1921

Fig. 1.

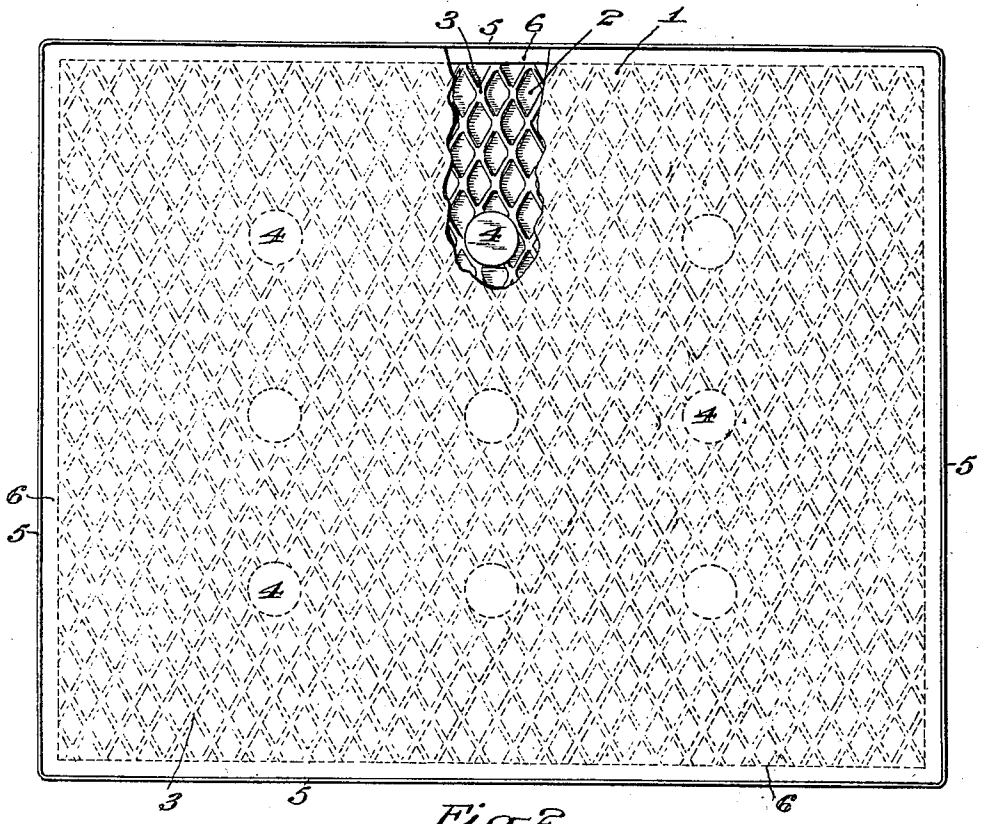
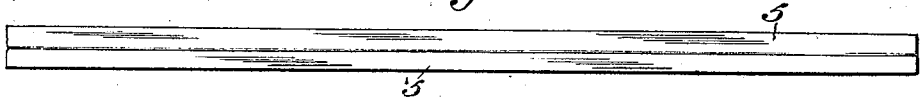


Fig. 2.



Fig. 3.



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UNITED STATES PATENT OFFICE.

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BINDER'S PRESSBOARD.

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To all whom it may concern:

Be it known that I, ELBRIDGE W. PALMER, a citizen of the United States, and resident of Long Island City, in the county of Queens and State of New York, have invented a new and useful Improvement in Binders' Press-boards, of which the following is a specification.

The object of my invention primarily is to provide a sheet metal press-board for bookbinders' use, as a substitute for the wooden press-boards, my sheet metal press-board having numerous advantages, such for instance as greater life, no liability to warp, considerably thinner whereby the capacity of the press may be enlarged, and cheapness of manufacture.

My invention more particularly comprises a built up sheet metal press-board having top and bottom sheets with preferably an interposed reinforcing sheet, which reinforcing sheet may be of expanded metal for strength and lightness, the sheets being surrounded by a frame, one or both edges of which project beyond the plane or planes of the sheets, said frame being provided with an internal peripheral flange inserted between the sheets. The parts of the entire built up structure may be permanently united as, for instance, by spot welding, suitable spacers being interposed between the top and bottom sheets of the press-board.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Fig. 1 represents my improved built up sheet metal press-board in plan.

Fig. 2 represents a transverse vertical section through the same, and

Fig. 3 represents an edge view of the board.

The top sheet is denoted by 1 and the bottom sheet by 2. A reinforcing sheet 3, preferably of expanded metal, is interposed between the top and bottom sheets. Spacers 4 in the intermediate sheet are interposed at intervals between the top and bottom sheets. A peripheral frame 5 surrounds the sheets, which frame is provided with an internal peripheral flange 6 inserted between the top and bottom sheets in the plane of the intermediate sheet. In the present instance, this flange is produced by providing a return bend in the frame 5.

The edges of the peripheral frame project beyond the planes of the top and bottom sheets and the corners of the frame are preferably rounded so as to protect the books in connection with which the press-boards are used.

To permanently unite the several parts of the press-board, the spacers 4 may be spot-welded to the top and bottom plates. The edges of the top and bottom plates may also be spot-welded at intervals to the internal peripheral flange 6. A press-board structure substantially as herein described could be made about one-half as thick as the ordinary press-board and will be amply strong and stiff for the work, thus materially increasing the capacity of the book press. Furthermore, the board would have no tendency to become warped or distorted and it could also be made very much more cheaply than the usual wooden press-boards.

It is evident that various changes may be resorted to in the form, construction and arrangement of the several parts without departing from the spirit and scope of my invention; hence, I do not wish to limit myself to the particular embodiment herein shown and described, but

What I claim is:

1. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, and a peripheral frame therefor, the edges of which project beyond the planes of said top and bottom sheets.

2. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing sheet, and a peripheral frame therefor, the edges of which project beyond the planes of said top and bottom sheets.

3. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing expanded metal sheet, and a peripheral frame therefor.

4. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing expanded metal sheet, and a peripheral frame therefor, the edges of which project beyond the planes of said top and bottom sheets.

5. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing expand-

ed metal sheet, a peripheral frame therefor, the edges of which project beyond the planes of said top and bottom sheets, and spacers located at different points in said intermediate sheet, between the top and bottom sheets.

6. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, and a peripheral frame therefor having an internal peripheral flange inserted between said sheets.

7. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, and a peripheral frame therefor having an internal peripheral flange inserted between said sheets, the edges of which frame project beyond the planes of said top and bottom sheets.

8. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, a peripheral frame therefor having an internal peripheral flange inserted between said sheets, and spacers located at different points between said sheets.

9. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, a peripheral frame therefor having an internal peripheral flange inserted between said sheets, and spacers located at different points between said sheets, the edges of the frame projecting beyond the planes of said top and bottom sheets.

10. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing sheet, and a peripheral frame therefor having an internal peripheral flange inserted between said top and bottom sheets in the plane of the intermediate sheet.

11. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing sheet, peripheral frame therefor having an internal peripheral flange inserted between said top and bottom sheets in the plane of the intermediate sheet, and spacers located at different points in said intermediate sheet between the top and bottom sheets.

12. A built up sheet metal press-board for bookbinders' use comprisng top and bottom sheets, an intermediate reinforcing sheet, a peripheral frame therefor having an internal peripheral flange inserted between said top and bottom sheets in the plane of the intermediate sheet, and spacers located at different points in said intermediate sheet between the top and bottom sheets, the edges of the peripheral frame projecting beyond the planes of the said top and bottom sheets.

13. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing expanded metal sheet, and a peripheral frame therefor having an internal peripheral flange inserted between said top and bottom sheets in the plane of the intermediate sheet.

14. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing expanded metal sheet, a peripheral frame therefor having an internal peripheral flange inserted between said top and bottom sheets in the plane of the intermediate sheet, and spacers located at different points in said intermediate sheet between the top and bottom sheets.

15. A built up sheet metal press-board for bookbinders' use comprising top and bottom sheets, an intermediate reinforcing expanded metal sheet, a peripheral frame therefor having an internal peripheral flange inserted between said top and bottom sheets in the plane of the intermediate sheet between the top and bottom sheets, the edges of the frame projecting beyond the planes of said top and bottom sheets.

In testimony that I claim the foregoing as my invention, I have signed my name this 22nd day of March, 1921.

ELBRIDGE W. PALMER.