

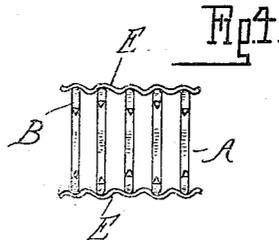
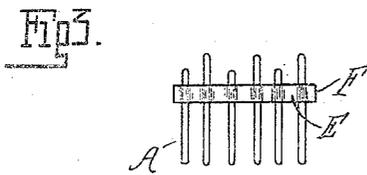
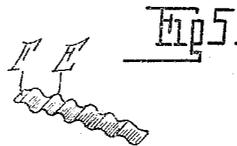
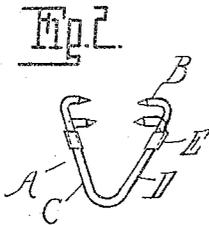
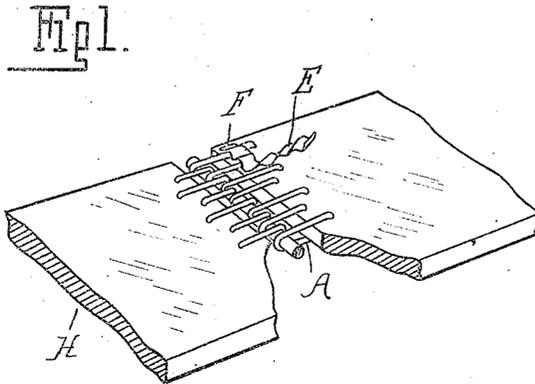
M. W. EDGAR.

GANGING HOOKS FOR BELT FASTENERS.

APPLICATION FILED JAN. 27, 1911. RENEWED MAY 20, 1915.

1,163,901.

Patented Dec. 14, 1915.



Witnesses  
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# UNITED STATES PATENT OFFICE.

MALCOLM W. EDGAR, OF DETROIT, MICHIGAN.

## GANGING HOOKS FOR BELT-FASTENERS.

1,163,901.

Specification of Letters Patent.

Patented Dec. 14, 1915.

Application filed January 27, 1911, Serial No. 605,047. Renewed May 20, 1915. Serial No. 29,435.

*To all whom it may concern:*

Be it known that I, MALCOLM W. EDGAR, a citizen of the United States of America, residing at Grosse Pointe, in the city of Detroit and county of Wayne, State of Michigan, have invented certain new and useful Improvements in Ganging Hooks for Belt-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to improvements in belt fasteners and to the construction of gangs of staple-shaped hooks, as more fully hereinafter described and particularly pointed out in the claims.

In the drawings: Figure 1 is a perspective view of a portion of the end of a belt connected by my improved device, showing the connecting-strip partially removed; Fig. 2 is an end elevation of the gang of hooks; Fig. 3 is a side elevation thereof; Fig. 4 is a top plan thereof; and Fig. 5 is a perspective of the connecting-strip.

At the present time a well-known means of fastening the meeting ends of belts is to secure to each end a series of staple-shaped hooks, A, interlocking the loop ends of these hooks upon the adjoining ends of the belt, H, and passing a pin through, which locks them pivotally together. These hooks are usually sold in bulk, and to apply them the hooks are picked out separately and dropped into slots in a machine until the desired number has been assembled for the belt, the belt inserted and the hooks collapsed to secure them to the belt. These hooks in bulk interlock with each other so that it requires some little time to pick out the desired number, and it also takes time to put them in the machine. This not only means the loss of time of the man but possibly of a machine or machines which the belt was driving—so that it is a material desideratum to do the work promptly as possible.

It has been proposed to gang the hooks and my invention is an improved form or means of temporarily holding them in gangs, so that they may be more quickly picked out of the box and placed in the machine.

A represents the hooks—which are sub-

stantially V-shaped, or staple-shaped, with inwardly-projecting prongs, or teeth, B, at their ends. The two legs, C and D, of these staple-shaped hooks, are of unequal length, so as to stagger the location of the teeth entering the belt. It is customary to alternate the long and short legs on each side for this purpose.

To secure a series or gang of these hooks together, I make a corrugated strip E, preferably of thin metal, the corrugations being spaced the desired distance the hooks are to be placed, and secure all of these strips to the legs of the series of staples, on one side. This may be done by any suitable cement, preferably by a pyroxylin cement. I may, and preferably do, put two of these securing-strips on, one on each side, and leave a slightly projecting end portion F. It is obvious that this secures the series or gang together, so that they may be taken up together and placed in position in the machine, and that the alternate arrangement of the long and short legs is assured, if the ganging is properly done. The side strips may be left on but it is preferable to remove them.

When applied to the belt, by taking hold of the projecting end portions of the strips, they may be torn off. This is very easily done, as the operation of connecting them to the belt will break or loosen the cement so that in many cases the strips will be actually or nearly disconnected.

What I claim as my invention is:

1. A series of staple-shaped lacing hooks and ganging-strips arranged across the outer faces of both legs of the hooks and secured thereto by a frangible cement.

2. The combination of a series of staple-shaped lacing hooks, and ganging-strips arranged on the outer faces of both legs of the hooks and secured thereto by a frangible pyroxylin cement.

In testimony whereof I affix my signature in presence of two witnesses.

MALCOLM W. EDGAR.

Witnesses:

ADELAIDE I. ADAMS,  
JAMES P. BARRY.