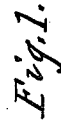


1,243,728.

3 SHEETS--SHEET 1.



By Raymond A. Parker

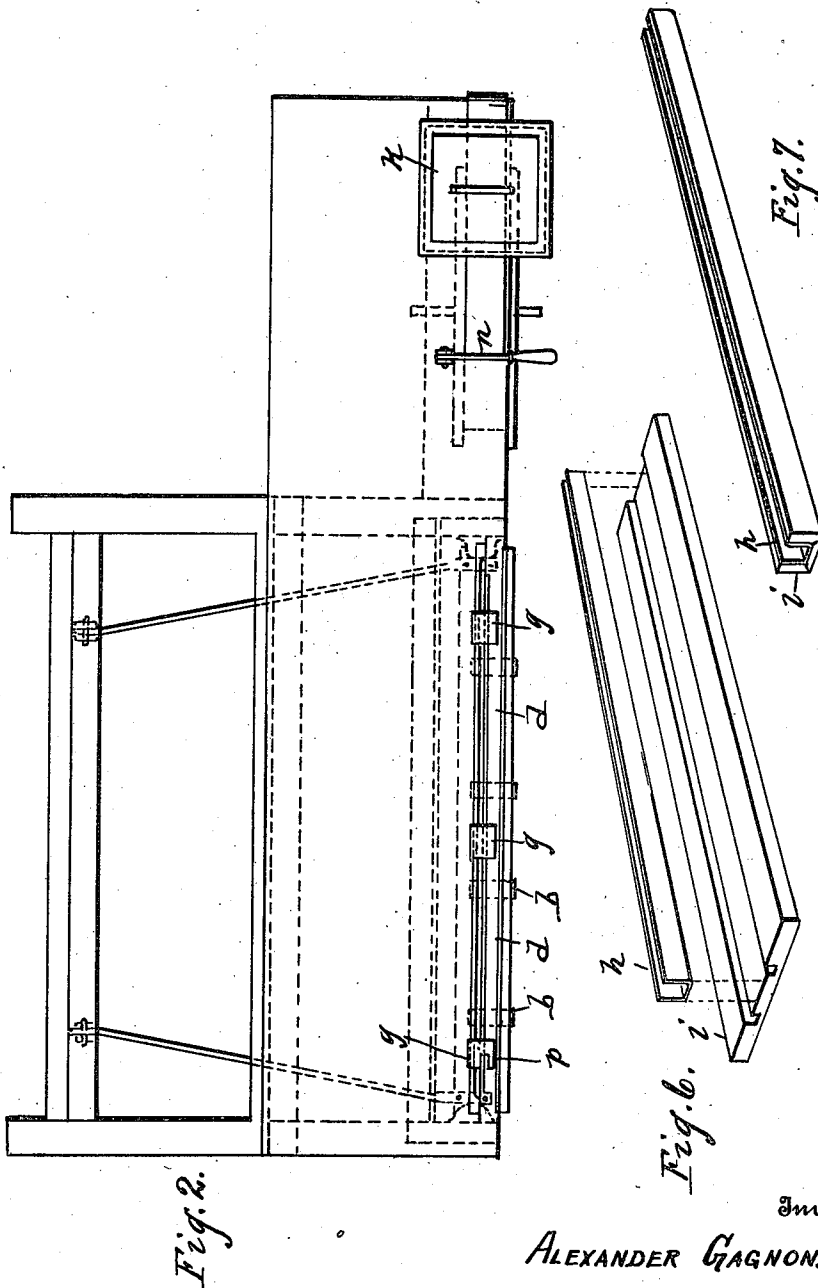
Attorney

A. GAGNON.
MACHINE FOR APPLYING FELT TO CHANNELS.
APPLICATION FILED JUNE 25, 1917.

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Patented Oct. 23, 1917.

3 SHEETS—SHEET 2.



Inventor

ALEXANDER GAGNON.

By *Raymond A. Parker*

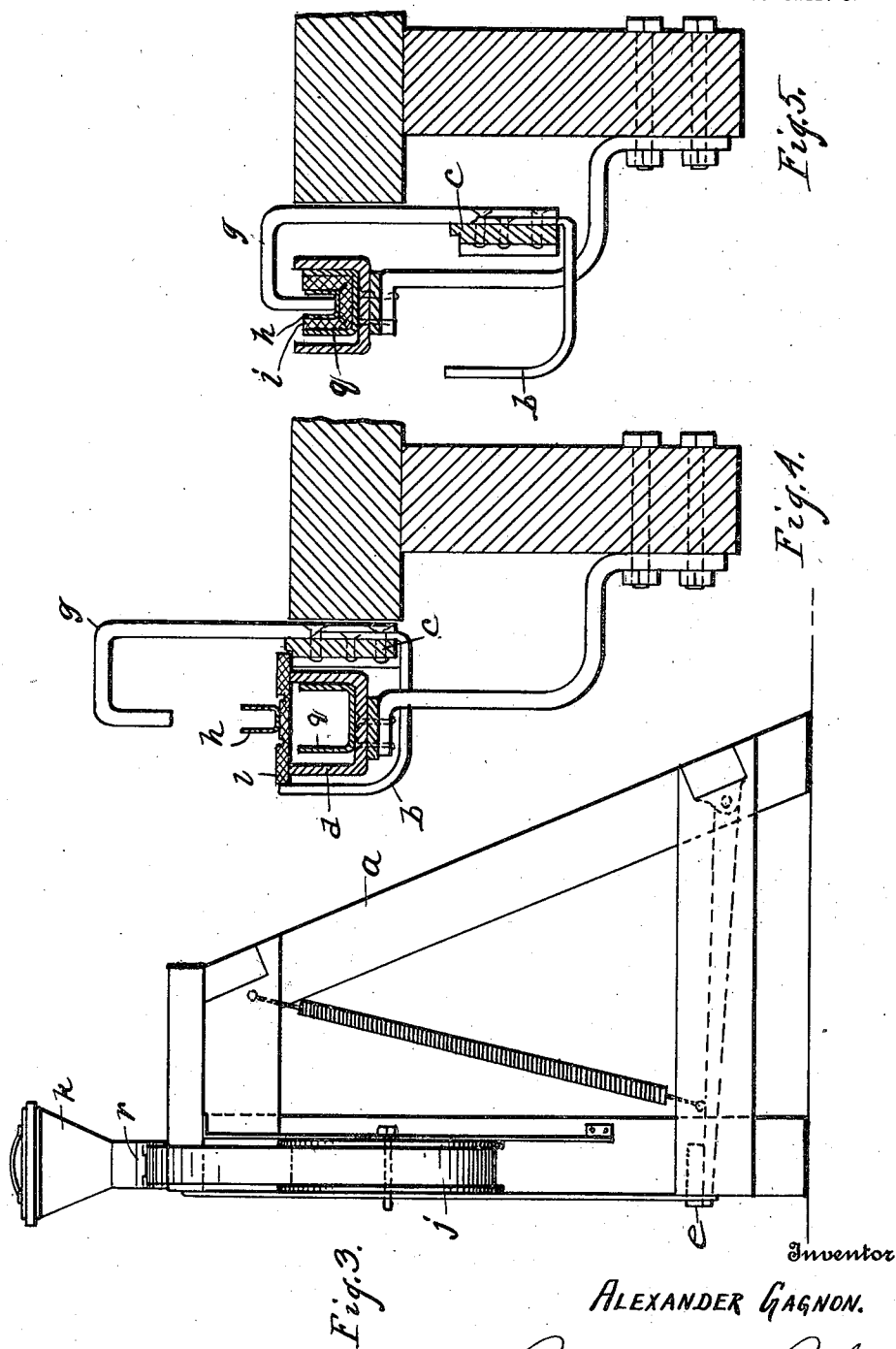
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Inventor

ALEXANDER GAGNON.

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UNITED STATES PATENT OFFICE.

ALEXANDER GAGNON, OF DETROIT, MICHIGAN, ASSIGNOR TO FISHER BODY CORPORATION, OF DETROIT, MICHIGAN, A CORPORATION OF NEW YORK.

MACHINE FOR APPLYING FELT TO CHANNELS.

1,243,728.

Specification of Letters Patent.

Patented Oct. 23, 1917.

Application filed June 25, 1917. Serial No. 176,699.

To all whom it may concern:

Be it known that I, ALEXANDER GAGNON, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Machines for Applying Felt to Channels, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to apparatus for applying felt or a similar packing to the metal channel bar that is used to build up a window sash for automobile sliding windows. The sash that this machine is intended to help manufacture is shown in the Allmand Patent No. 1,147,836 of July 27, 1915. Heretofore this felt has been glued on by hand, which has been a rather expensive and tedious process. This machine is designed to do this work and to greatly reduce the labor cost.

In the drawings,—

Figure 1 is a front elevation of the machine.

Fig. 2 is a plan view of the same.

Fig. 3 is an end elevation of the machine.

Fig. 4 is a cross section on the line C—C before the parts are operated to apply the felt to the channel strip.

Fig. 5 is a similar view showing the parts when they are operated to apply the felt to the channel strip.

Fig. 6 shows the metal channel strip in connection with the felt which is to be glued thereto.

Fig. 7 shows the channel strip after the felt has been glued thereto.

a is the frame of the machine. *b, b* are brackets projecting forward therefrom, which carry a channel *d*. *c* is a vertically reciprocating strip connected with a treadle *e* by the links *f, f*. This strip carries a plurality (three here) of presser hooks or members *g* which are adapted to function in the way shown in Figs. 4 and 5. When the treadle is pressed down with the foot, these hooks come down as shown in Fig. 5, bringing with them a channel *h* and the felt packing for the channel *i*.

This felt packing strip is drawn off from

the storage roller *j* and through the opening *x* of the glue pot *k* over the upwardly and spring-pressed platform *l*. It thence passes over the table *m* in proximity to an inch gage, and is thence drawn over the top of the channel *d*, being centered thereon by the brackets *b* and the edge of the reciprocating strip *c*. Of course, after it is passed under the glue pot its upper edge is uniformly covered with glue. When it has been drawn off to the correct length as shown by the gage, it is cut off with the cutter *n*. The felt is then further drawn over the channel *d* by hand.

The sash which is shown in dotted lines in Fig. 1 and designated *o* is then put in place. The sash is a three rail sash, the upper edge of the glass being left entirely free. Hence the sash may be slipped in place and the bottom rail brought into the recess *p* (Fig. 2) of the presser arm hook *g*. This serves to act as a stop for the sash and properly locate it with respect to the other parts.

When the presser hooks are pressed down they engage in the inside of the channel *h*, which is part of the work, and carry the felt strip *i* down in the form channel *g*. This form channel, therefore, in conjunction with the channel *h* that ultimately becomes part of the sash, serves to pinch the felt in its required position and when the channel *h* is surrounded by the felt in the form channel, it can be left there the necessary time to let the glue set.

In Fig. 3 it appears that the scraper bars *r* on the glue pot are substantially complementary to the cross-sectional shape of the felt strip and are used to allow only a thin film of glue on the inside of the felt.

What I claim is:

1. In apparatus for the purpose set forth, the combination of a form channel and means for pressing a bar with the felt strip to cover the same in the form channel.
2. In apparatus for the purpose specified, the combination of a form channel, means for applying a film of glue to a felt strip and means for pressing a bar with the felt strip into the form channel.
3. In apparatus for the purpose specified, the combination of a form channel, means for applying a film of glue to a felt strip, devices for centering the felt strip above

the form channel, and means for pressing a part of the sash with the felt into the form channel

4. In apparatus for the purpose specified, the combination of a channel whose upper edges hold the felt strip, a second or form channel contained within the first channel, and means for pressing a bar which becomes part of the sash and the felt strip which is held on the edges of the first-mentioned channel into the second or form channel.

5. In apparatus for the purpose specified, the combination of a channel whose upper edges hold a felt strip, devices for centering said felt strip above said channel, a second or form channel, and presser members for pressing a third member which becomes part of the sash and the felt into the form channel

6. In apparatus for the purpose specified, the combination of a channel whose upper edges support the felt strip, a form channel contained in said first channel, a recip-

rocating member having bracket arms which in connection with the reciprocating members center the felt strip above the first channel, and presser hooks secured to said reciprocating member for engaging a bar which becomes part of the sash and carrying it and the felt strip into the form channel.

7. In apparatus for the purpose specified, the combination of a glue pot provided with an opening through which a felt strip is drawn, and means for applying the felt strip with the film of glue around the three exposed sides of a sash bar

8. In apparatus for the purpose specified, the combination of a form channel, means for supporting a felt strip above the form channel, a plurality of reciprocatable presser hooks, and means for simultaneously operating the same to force the bar of the sash rail and the felt into the form channel.

In testimony whereof, I sign this specification.

ALEXANDER GAGNON.