

(No Model.)

T. H. VIDETO.

KNIFE FOR RUBBER COATING MACHINES.

No. 371,155.

Patented Oct. 4, 1887.

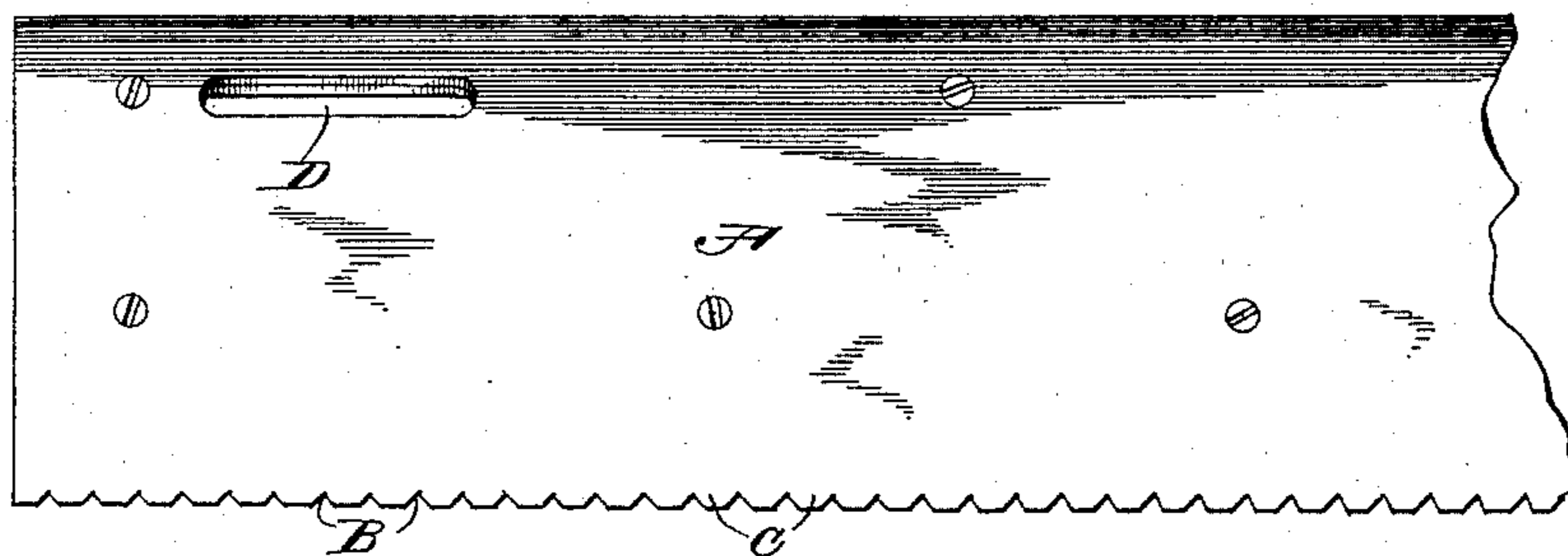


Fig. 1.

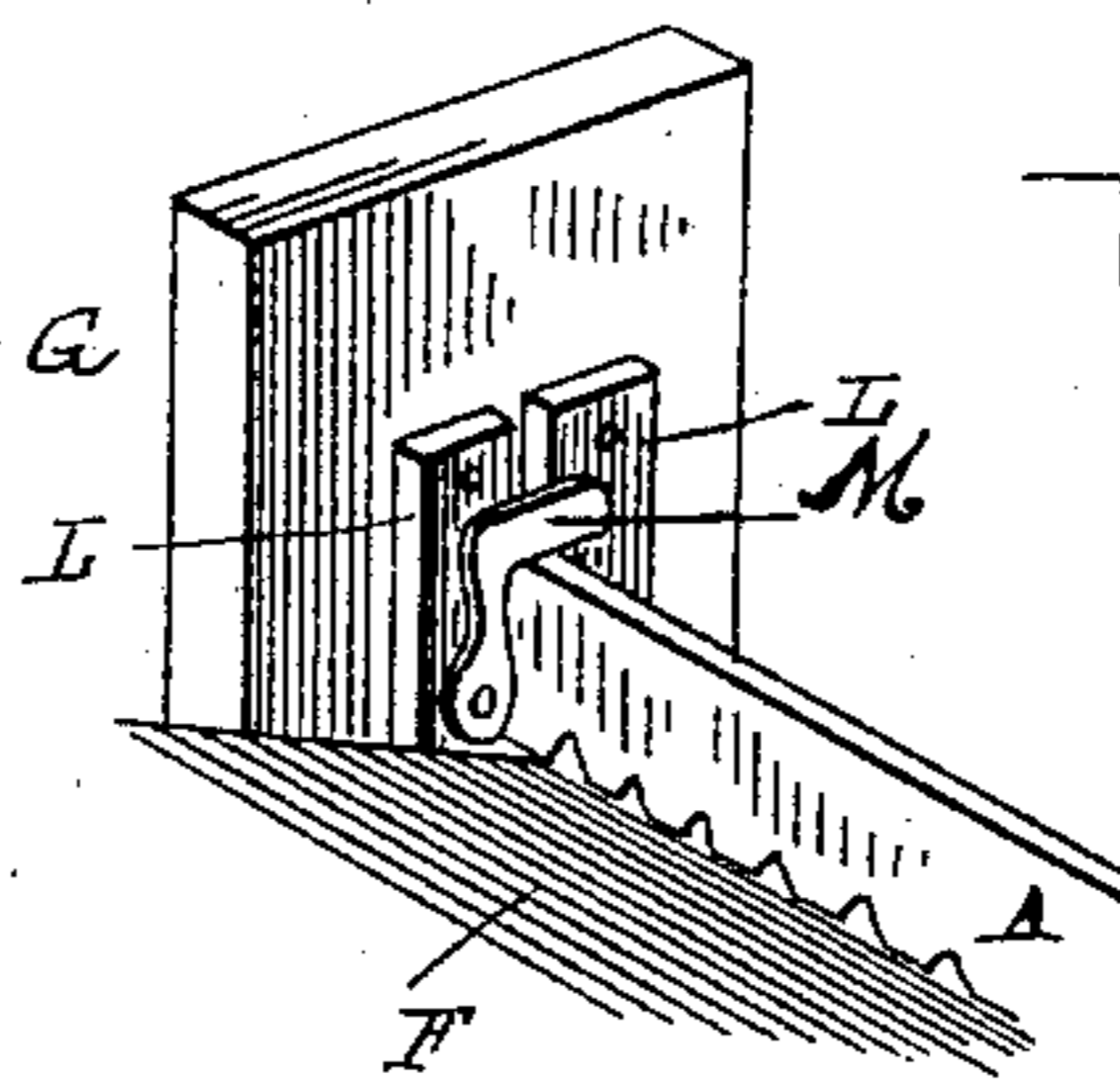


Fig. 3.

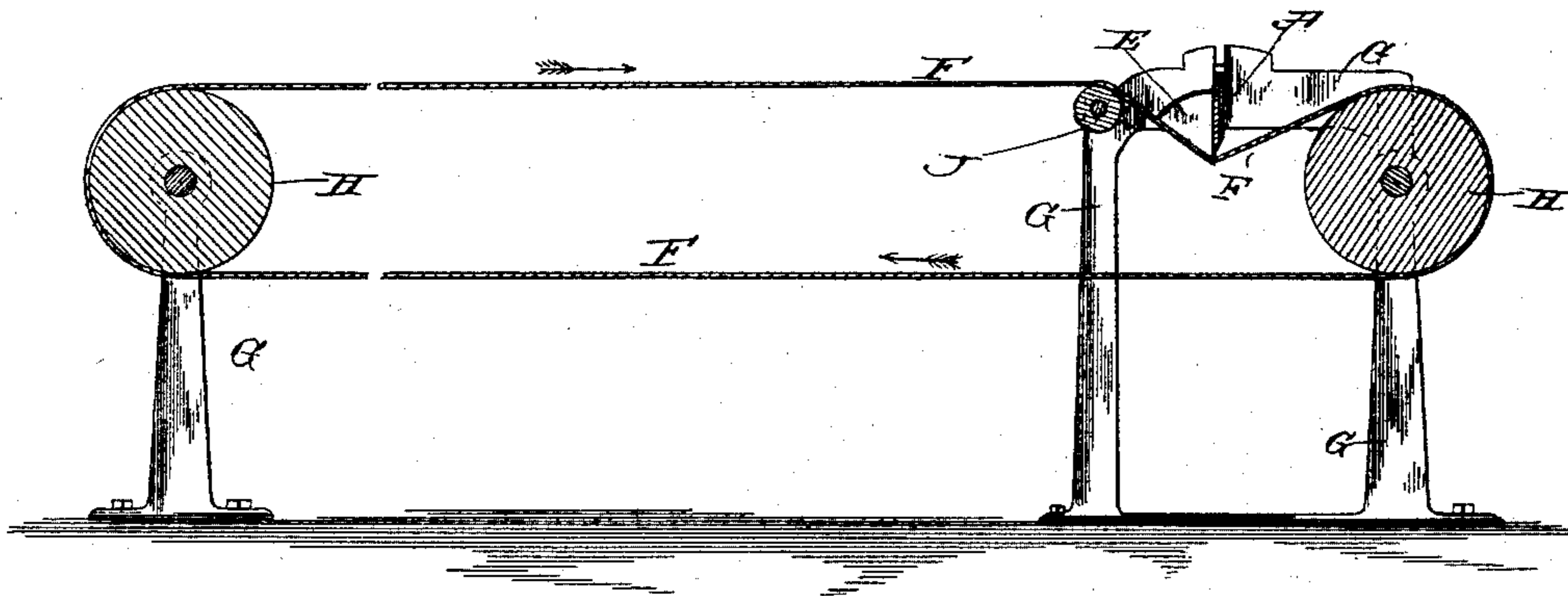


Fig. 2.

WITNESSES:

Ada H. Spencer.
C. H. Loomis

INVENTOR.

Theodore H. Videto,
by A. H. Francis,
his attorney

UNITED STATES PATENT OFFICE.

THEODORE H. VIDETO, OF HYDE PARK, ASSIGNOR OF ONE-HALF TO L. DEWART APSLEY AND JUDSON H. COFFIN, BOTH OF HUDSON, MASSACHUSETTS.

KNIFE FOR RUBBER-COATING MACHINES.

SPECIFICATION forming part of Letters Patent No. 371,155, dated October 4, 1887.

Application filed August 14, 1886. Serial No. 210,892. (No model.)

To all whom it may concern:

Be it known that I, THEODORE H. VIDETO, of Hyde Park, in the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Knives for Rubber-Coating Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention is primarily an improved knife for use in machines for coating and finishing water-proof fabrics, and its use permits of great simplification in the process of and apparatus for producing such fabrics with surface-stripes.

My invention consists in a knife or bar having a notched blunt-toothed bearing-edge adapted to be held in contact with the coated surface of the moving fabric under treatment and slotted, as at D, for securing the gages.

It also consists in a surface coating or finishing machine provided with a transverse blade or bar having in its bearing-edge a succession of flat blunt teeth with intermediate shallow notches.

My apparatus and process are quite unlike those heretofore employed to produce the so-called embossed or farina-coated gossamers, some of which are ornamented by stripes of the farinaceous material; and my fabric is far superior, as its stripes are more durable and more clearly defined, while with my improvement I simply substitute my notched blade in place of the straight-edged knife by which the foundation coat was spread.

In the drawings, Figure 1 is a plan of one end of one of my improved knives; and Fig. 2 is a detail of part of a coating-machine, illustrating the practical application of my invention. Fig. 3 is a view in perspective of a portion of one side of the machine, showing the device for holding the knife in position.

A represents the knife or bar, of steel or other firm and durable material; and B, a series of shallow notches formed in the bearing-edge thereof, of such width and at such distance from each other as is desired, leaving a series of blunt teeth, C, to bear frictionally upon the surface of the fabric drawn beneath it.

D is a slot or hole through the bar—one near

each end—for the purpose of securing to it the gages E, which prevent the surfacing compound escaping laterally off of the fabric when it is desired to use such gages.

G represents a suitable frame, and H one of the carrying-rollers, by which the fabric F, in the form of an endless belt or otherwise, is supported and moved beneath and in contact with the knife A B C. The knife is fixed in the required position and held fast by suitable mechanical means, so as to act uniformly on the surface.

Fig. 3 illustrates the preferred means of holding the knife in working position, its end being shown as inserted in a groove or recess between two blocks, L, fixed on a post of the frame, while a pivoted hook, M, holds the knife down with its notched edge bearing upon the fabric F. A set-screw may be substituted for the hook with the same result. A bar or a roller, J, extends crosswise beneath the fabric to support it against the pressure of the knife.

The practical operation of my improved apparatus is as follows: After the smooth-coated surface of rubber compound has been applied to the web of fabric, moving through the machine in the usual way, the ordinary straight-edged knife is removed, my notched knife substituted therefor, and the surfacing compound, of suitable material and color, poured upon the coated fabric immediately in front of the knife and between its gages. The fabric web being then set in motion, the surfacing compound will pass freely in stripes through the shallow notches B, but cannot pass except in the thinnest of films beneath the flat blunt ends of the teeth C. When the web has made one complete circuit of the machine, my knife is removed and the striped fabric is treated in the usual manner for removal and curing of gossamer fabrics.

I claim as my invention—

1. The herein-described knife for coating and finishing rubber-coated fabrics, consisting of the blade having a notched blunt-toothed bearing-edge, and gage-slots D, substantially as set forth.

2. In a machine for surface-striping water-proof fabrics, the combination of a suitable

supporting-frame and carrying-rollers with a transverse stationary bar or knife having on its bearing-edge a succession of flat blunt teeth with intermediate shallow notches, said knife
5 being secured in grooves in the sides of the frame by means of hooks or other suitable fastening devices, so as to bear steadily on the fabric, as set forth.

3. In a machine for surface-stripping water-
10 proof fabrics, the stationary bar or knife having on its bearing-edge a succession of flat blunt teeth, with intermediate shallow notches,

in combination with the adjustable sides or plates E, whereby the trough or receptacle for the rubber compound is lengthened or short- 15 ened, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 7th day of August, A. D. 1886.

THEODORE H. VIDETO.

Witnesses:

A. H. SPENCER,
ELIHU G. LOOMIS.