

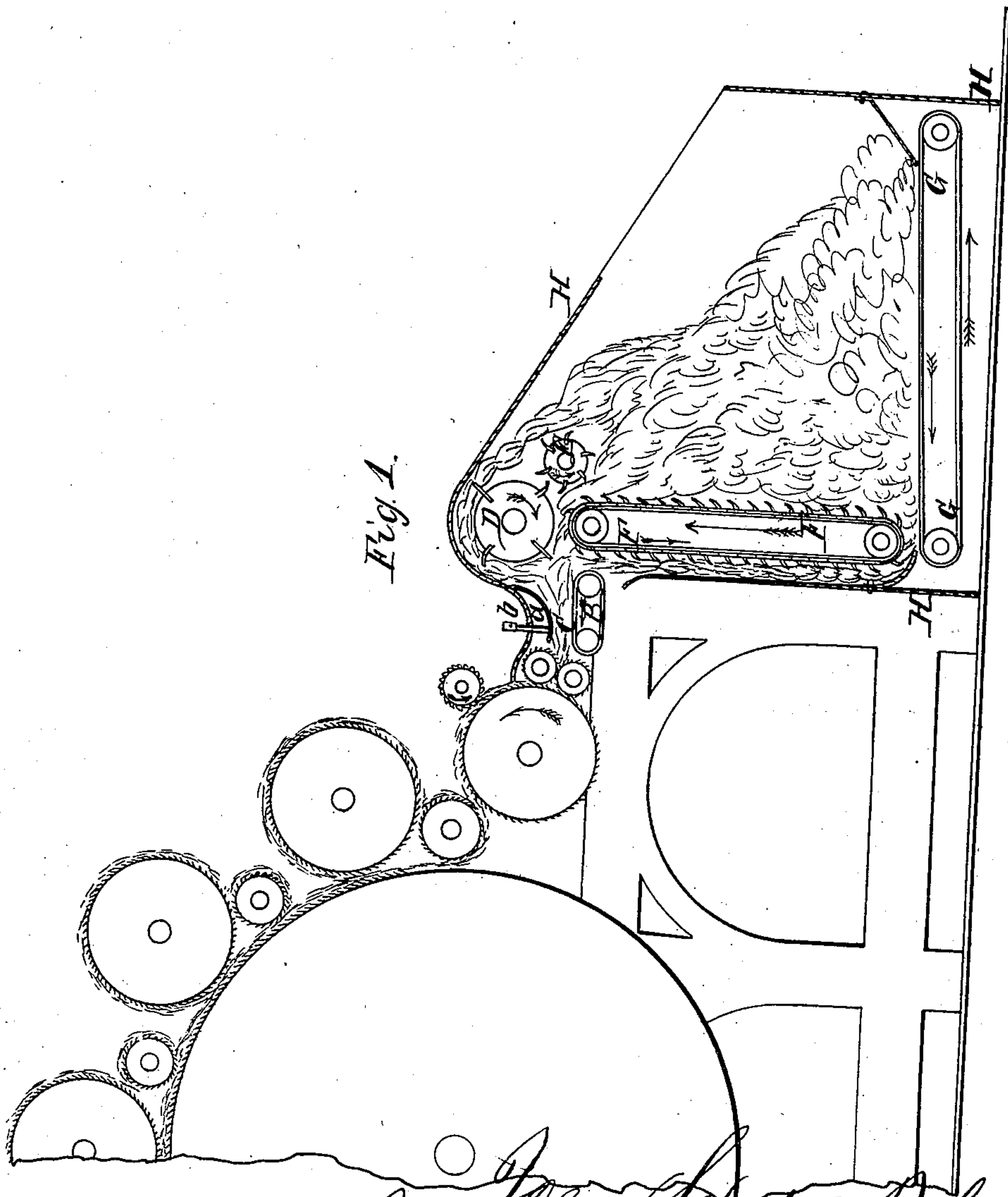
No. 43,959.

PATENTED AUG. 23, 1864.

J. S. BOLETTE.

APPARATUS FOR FEEDING WOOL, &c., TO CARDING OR OTHER MACHINES.

2 SHEETS—SHEET 1.



Witnesses.

Jos. L. Coombs

E. W. Hooper

Jean Sebastian Bolette  
Inventor  
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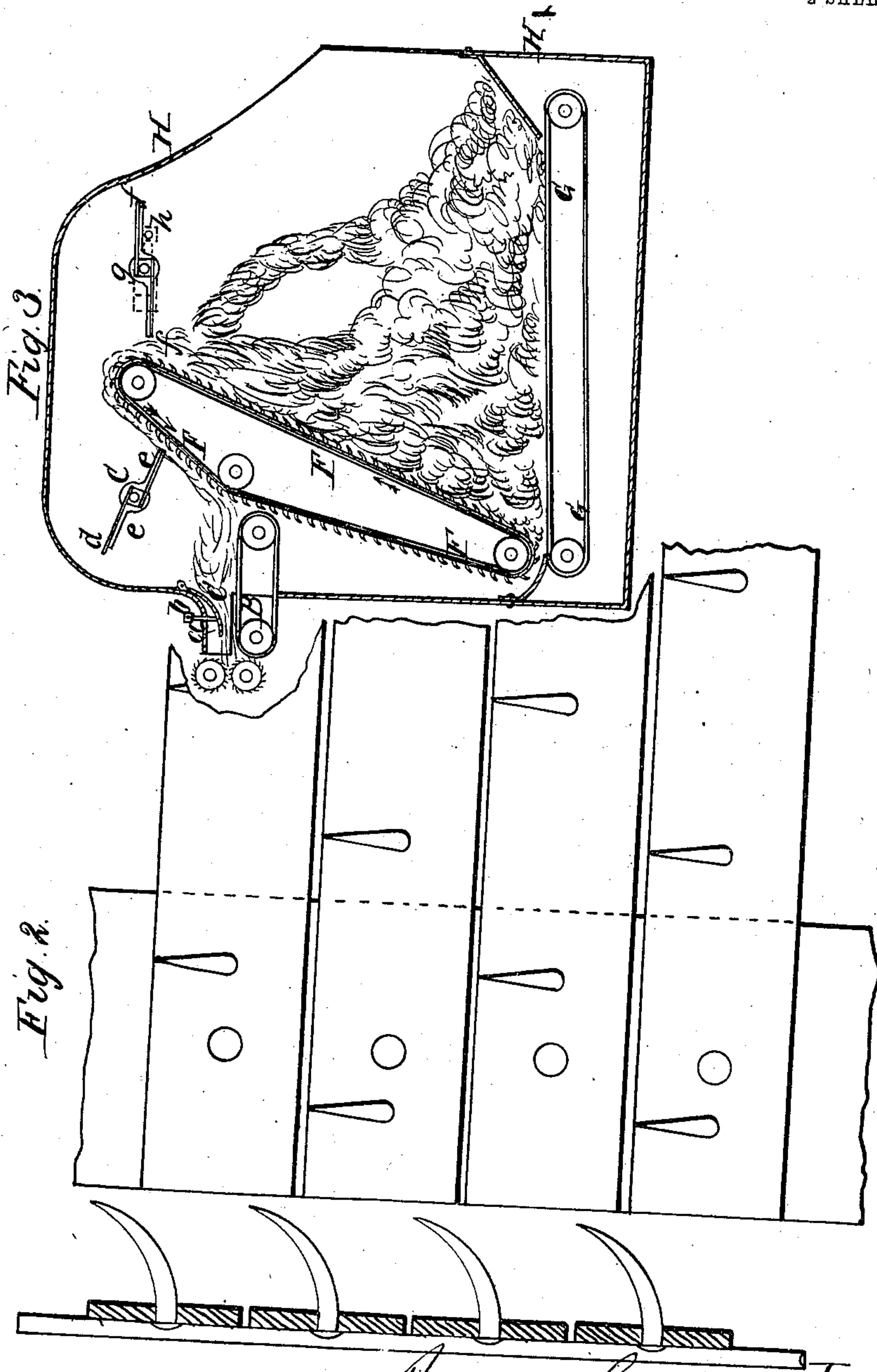
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Joz. L. Coombs  
E. N. Horford

Inventor  
Jean Sébastien Bolette  
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# UNITED STATES PATENT OFFICE.

JEAN SÉBASTIEN BOLETTE, OF GOFFONTAINE-CORNESSE, BELGIUM.

IMPROVEMENT IN APPARATUS FOR FEEDING WOOL, &c., TO CARDING AND OTHER MACHINES.

Specification forming part of Letters Patent No. 43,959, dated August 23, 1864.

*To all whom it may concern:*

Be it known that I, JEAN SÉBASTIEN BOLETTE, of Goffontaine-Cornesse, Belgium, have invented a certain new and useful method of and apparatus for feeding wool and other textile and filamentous substances into carding, combing, and other machines for treating such substances; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings.

This new method consists in feeding the wool or other textile or filamentous substances by means of an apparatus which consists of a case, with the appliances hereinafter stated, into which the substance—say wool—is thrown. At the lower part of this case there is an ordinary endless belt, moving horizontally, and which brings the wool against an inclined or vertical endless belt, armed with hooked teeth or blades. These blades carry up the wool to a height level with the entrance into the carding-engine or other machine to be fed. When the wool reaches that level, it is stripped by a roller furnished with teeth and with leather, and is thrown by it upon a short endless belt, which delivers it to the carding-engine or other machine. At the front of the short belt there is a roller with teeth, for the purpose of taking off any excess of wool raised by the vertical belt, and returning it into the case. The vertical belt is calculated to bring up more wool than necessary to insure a full supply to the short belt and a regular and continuous feed.

Figure 1 of the accompanying drawings is a sectional elevation showing an apparatus arranged according to this invention and applied to feeding wool to a carding engine. H is a case, at the lower part of which is an ordinary endless belt, G, which brings the wool against an inclined or vertical endless belt, F, formed by preference of metal laths attached to leather straps, and armed with hooked teeth or blades. A portion of this belt is shown detached and on an enlarged scale in face and edge views in Fig. 2. The hooked teeth or blades carry up the wool or other fiber to a height level with the entrance to the carding-engine or other machine to be

fed. When the wool or other fiber reaches that level, it is stripped by the roller D, (which is furnished with teeth and with leather,) and is thrown by it upon the short endless feeding-belt B, which delivers the wool or other fiber through the opening or mouth-piece O to the carding-engine. At the front of the short belt B and of the belt F there is a roller, E, with teeth for the purpose of taking off any excess of wool raised by the belt F, and such excess is returned by the roller E into the case. *a* is a plate hinged to the case, and raised and lowered, as required, by a screw, *b*, to regulate the thickness of the supply to the carding-engine.

Fig. 3 is a sectional elevation of apparatus, also arranged according to this invention, but slightly modified from that before described. The same letters of reference indicate corresponding parts to those in Fig. 1. Instead of the roller with teeth D, Fig. 1, a shaft, *c*, having combs or blades *d*, backed with leather or other suitable yielding material, *e*, mounted on it, is employed. This instrument acts, as the roller D in Fig. 1, to strip the wool from the belt F and to throw it onto the belt B, and carries it through the mouth-piece. In place of the roller with teeth E, Fig. 1, blades *f* are fixed to a revolving shaft, *g*. The shaft *g* is fitted in a block or bearing, which is adjustable by means of a screw, *h*, to any required position in a slot in the inside of the case H, in order to regulate the quantity of wool supplied by the belt F.

In the apparatus, Fig. 3, the belt F is carried over three rollers, in the manner shown, for the purpose of submitting the wool or fiber to the action of the combs *d* in a more inclined position.

It will be observed that in each of the arrangements shown in the drawings the wool or fiber which is taken up by the endless belt F is stripped from it by a roller or revolving instrument, having teeth or beaters, and is thereby thrown loosely onto another endless belt, which carries it into the carding, combing, or other machine, and it is this which forms the important feature of my invention.

Having now described the nature of the

said invention and in what manner the same is to be performed, I declare that what I claim is—

The method of and apparatus for feeding wool and other textile and filamentous substances into carding, combing, and other machines for treating such substances, as hereinbefore described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

J. S. BOLETTE.

Witnesses:

LÉON GAUCHEZ,  
HENRI TECHER.