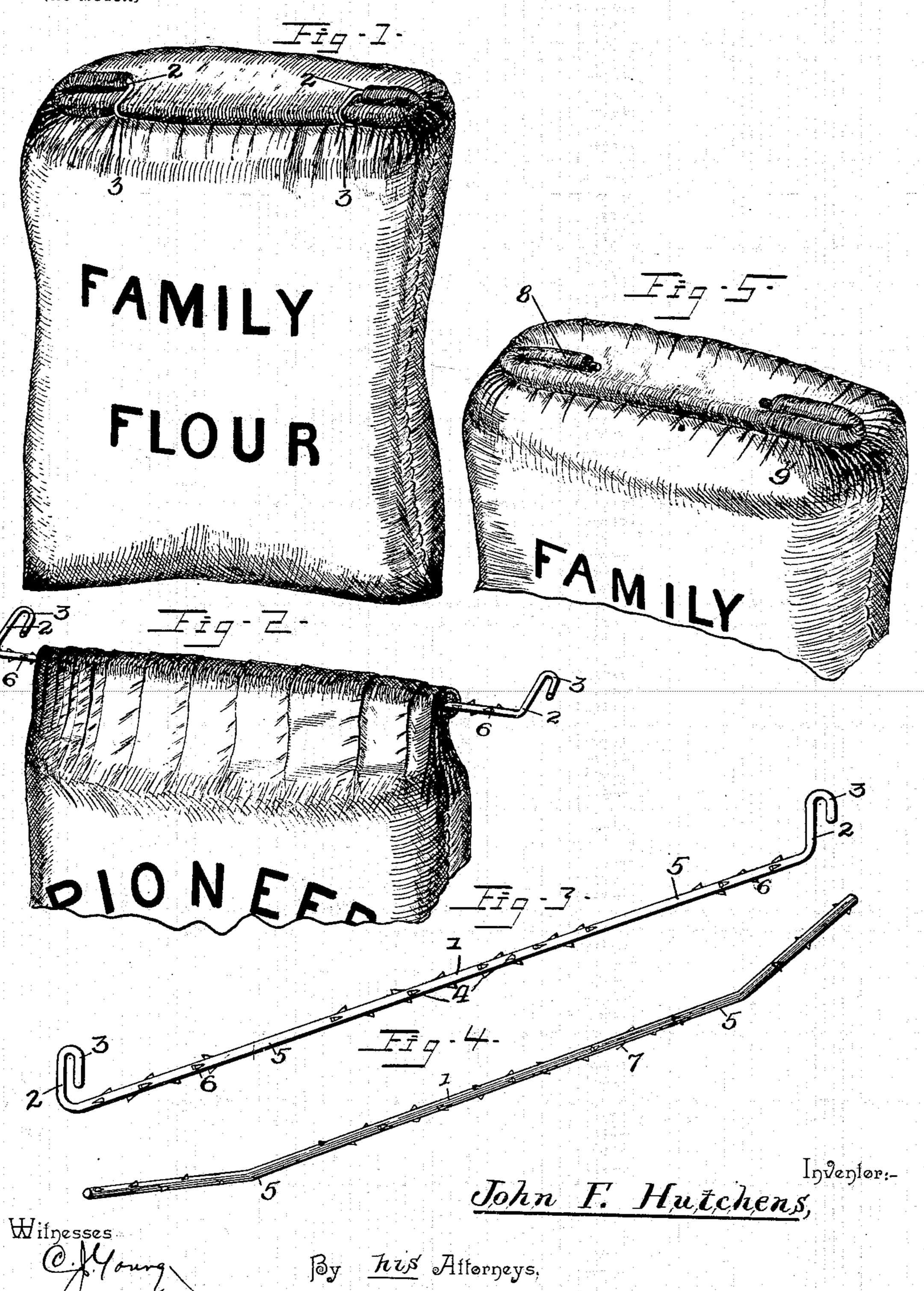
No. 612,108.

Patented Oct. II, 1898.

J. F. HUTCHENS. BAG FASTENER.

(Application filed Sept. 16, 1897.)

(No Model.)



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United States Patent Office.

JOHN F. HUTCHENS, OF PIONEER, MISSOURI, ASSIGNOR OF THREE-FIFTHS TO WILSON HUTCHENS AND ISAAC C. HUTCHENS, OF SAME PLACE.

BAG-FASTENER.

SPECIFICATION forming part of Letters Patent No. 612,108, dated October 11, 1898.

Application filed September 16, 1897. Serial No. 651,887. (No model.)

To all whom it may concern:

Be it known that I, John F. Hutchens, a citizen of the United States, residing at Pioneer, in the county of Barry and State of Mis-5 souri, have invented a new and useful Bag-Fastener, of which the following is a specification.

My invention relates to improvements in bag-fasteners; and the object is to provide to a fastener which may be easily and quickly applied to a bag to securely close the mouth

thereof.

A further object of the invention is to provide an improved fastener which is simple in 15 construction, efficient and reliable in service, and cheap of manufacture, so that it is especially adapted for use by the milling trade in closing and fastening flour-sacks.

My improved fastener is especially adapted 20 to fill a want experienced by flour manufacturers, because the fastener is so constructed opened by manipulating the fasteners, in consequence of which the housewife or baker 25 proceeds to tear or rip open the bag or sack, and thus mutilate the same to such an extent that unscrupulous dealers will not be induced to collect the mutilated bags or sacks and refill them with an inferior grade of flour to be 30 sold or "palmed off" on the public as flour of the quality originally packed and contained in the sacks or bags.

To the accomplishment of the purposes of my invention it consists, broadly stated, in 35 the combination, with a bag or sack, of a fastener having an elongated barbed shank which is folded or rolled with the bag or sack, at the mouth thereof, and which fastener has its ends bent at an angle to securely close the

40 open mouth of the bag or sack.

The invention further consists in a bagfastener comprising a straight barbed shank and angular hooked arms at the ends of said shank and adapted to be bent with the bag 45 to lie parallel to the shank and to have the hooks thereof engage with said shank to compactly and securely hold the mouth of the bag in a closed condition and prevent the bag from being opened easily by the manipulation 50 of the fastener.

To enable others to understand my invention, I have illustrated the same in the accompanying drawings, forming a part of this

specification, and in which—

Figure 1 is a perspective view of part of a 55 bag, showing the preferred construction of my fastener attached to the mouth of the bag to securely and permanently close the same. Fig. 2 is a view in perspective, illustrating the operation of applying the fastener to the 60 bag. Fig. 3 is a detail perspective view of the preferred construction of the fastener detached from the bag. Fig. 4 is a view of another embodiment of the invention. Fig. 5 is a view of a bag with the fastener illus- 65 trated by Fig. 4 applied thereto.

Like numerals of reference denote corresponding parts in all the figures of the draw-

ings.

The fastener illustrated by Fig. 3 and shown 70 applied by Figs. 1 and 2 is made from a single and applied that the bag cannot easily be | length of stout wire, which is of such strength that it cannot easily be bent by the fingers and which requires the employment of a tool for bending the wire in the application of the 75 fastener to the bag. Said fastener consists of an elongated bar or shank 1, which is bent at its ends to form the off-standing arms 2 2 and the hooks 33. I prefer to bend the wire at right angles to the shank to form the arms 80 2, after which the ends of the wire are bent or doubled upon the arms for the purpose of producing the hooks 3. The elongated straight shank or bar of the fastener is provided with a series of barbs or teeth 4. These barbs or 85 teeth 4 terminate at points some distance within the angular arms 2, thus leaving certain portions of the shank unbarbed and smooth, as indicated at 5, and said shank or bar is furthermore provided with other se- 90 ries of barbs or teeth, which barbs or teeth 6 are formed on the shank between the plane smooth portions 5, and the angular arms 2.

In the application of my bag-fastener to a bag I bend the shank at the smooth unbarbed 95 sections 5 of said shank, and the employment of these unbarbed plain sections on the shank is important, because the bending of the wire is facilitated and the shank is not weakened by the formation of barbs or teeth thereon, 100 in consequence of which the shank possesses the necessary strength and durability to withstand the rough service to which it may be subjected in shipping and handling the flour-

5 sacks.

To apply my bag-fastener to a sack, the sack is first filled with flour and the edges of the sack are then lapped or closed against each other. The elongated barbed shank of 10 the fastener is now fitted laterally against one side of the closed mouth of the bag, after which the fastener and the mouth of the bag are folded or rolled together, so that the elongated straight shank is inclosed within the 15 rolled or folded part of the bag, the angular hook-formed ends of said fastener protruding from opposite sides of the bag. After the fastener and bag have been rolled together and compactly drawn against the contents of 20 the bag I proceed to bend the shank at points where the smooth sections 5 are located, thus turning inwardly the barbed parts 6 of the fastener-shank to bring them parallel to the major portion or length of said fastener-shank, 25 and the attachment of the fastener is completed by fitting the hooks 3 over the shank and the rolled edges of the bag. As before intimated, this bending of the fastener-shank

tool especially constructed for the purpose, The described construction of the fastener provides a means for so securely and tightly 35 closing the mouth of the bag that the stiff wire cannot readily be bent to good advantage in order to release the fastener from the bag, and as a result of this construction and mode of application of the fastener the pur-40 chaser of the flour is induced to tear or rip open the bag, and thus mutilate the same to such an extent that unscrupulous dealers will not refill the bag with flour of an inferior quality and attempt to deceive the pub-45 lie by selling such flour in original sacks.

and the application of the hooks to the shank

to good advantage by the employment of a

30 and rolled mouth of the bag can be effected

The embodiment of the invention illustrated by Figs. 4 and 5 contemplates a fastener having the generic features of the improvement illustrated by Figs. 1 to 3, inclu-50 sive; but such modified construction of the fastener is simpler in that the angular arms with the hooks are omitted. As shown by Fig. 4, the fastener is made from a single length of stiff wire having its end portions bent at obtuse angles to the straight length or shank of the fastener. This fastener is provided with a multiplicity of barbs or teeth 7, which extend continuously throughout the straight shank and the obtuse-angled ends 60 thereof.

The method of applying the fastener shown by Fig. 4 is similar to that illustrated by Fig. 2 in that the straight barbed shank of the fastener is fitted laterally against and rolled 65 with the edges of the bag, at the mouth portion thereof. After the bag and fastener have been rolled together, so as to close the

bag compactly upon the contents of the same, the obtuse-angled ends of the wire are bent around or looped, as indicated at 8 and 9 in 70 Fig. 5, and thus the bent ends of the wire are brought into parallel relation to the straight shank on one side of the same. The barbed obtuse-angled ends of the fastener engage with the fabric of the bag to securely hold in 75 place the fabric which engages with the barbs of said bent or doubled ends of the fastener, and thus the bag is securely and permanently closed.

No claim is herein made to a bag having 80 its mouth portion rolled upon itself and a fastener which is inclosed within said rolled portion of the bag and which has its ends twisted inwardly upon itself and with a portion of the bag fabric, as such subject-matter is em- 85 braced in my other application, filed April 12, 1897, Serial No. 631,779.

I am aware that changes in the form and proportion of parts and in the precise details of construction may be made without depart- 90 ing from the spirit or sacrificing the advan-

tages of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a bag or sack, of a fastener therefor which is separate from, or unattached to, said bag, and comprises a pliable, continuously - barbed wire or rod laid across the mouth of the bag or sack and rolled 100 therewith, the ends of said pliable rod or wire being bent or turned at an angle to those parts of the bag and the wire which are rolled together, as and for the purposes described.

2. The combination with a bag or sack, of 105 a fastener for closing the mouth of the same which is separate from, or unattached to, the bag, and consists of a pliable barbed rod or wire of a length greater than the width of the bag, and laid across the mouth of the same to 110 have its barbs engage with the bag fabric and its ends extended beyond said bag; the bagmouth and rod being rolled together, and the ends of the rod or wire bent or folded with a portion of the bag fabric at angles to the rolled 115 part of the bag-mouth, as and for the purposes described.

3. As a new article of manufacture, a bagfastener comprising a pliable, barbed wire or rod having its ends lying at angles to the 120 length of the same, whereby the barbed wire or rod may be engaged with a mouth of the bag to be rolled compactly therewith, and its angular protruding ends provide convenient means for manipulating the fastener during 125 the rolling thereof with the bag-mouth and for attaching the fastener and rolled bag fabric together at the ends of said rolled portion of the bag-mouth, as and for the purposes described.

4. A bag having its mouth portion rolled upon itself, and a barbed fastener which is inclosed within said rolled portion of the bag, and which has its ends folded or bent in-

wardly upon itself and with a portion of the bag fabric, substantially as described, for the

purposes set forth.

5. The combination with a bag, of a barbedswire fastener which is rolled with the edges of the bag, at the mouth portion thereof, said fastener having its ends bent or folded upon itself and engaged with the rolled mouth portion of the bag to cause the latter to fold with the folded or bent ends of said fastener, substantially as described.

6. The combination with a bag or sack, of a fastener having its shank folded or rolled with the bag at the mouth portion thereof and provided with bent ends which are interlocked with the shank, substantially as described,

for the purposes set forth.

7. As a new article of manufacture, a bagfastener consisting of an elongated shank and the offstanding hooks which are adapted to be bent around and engage with said shank after the fastener has been attached to a bag, substantially as and for the purposes described.

8. As a new article of manufacture, a bag-25 fastener consisting of a length of wire forming a shank, angular arms at the extremities of the shank, and hooks at the free ends of said arms, said shank being barbed or toothed at intervals and leaving unbarbed, smooth 30 portions at distances from the ends of the fastener-shank where the latter is designed to be bent, for the purposes described, substantially as set forth.

9. A bag-fastener comprising a single length 35 of pliable wire provided with barbs or teeth and rolled with the edges of the bag at the mouth portion thereof, said wire having its ends bent into interlocking engagement with the folded portion of the bag-mouth, substan- 40

tially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN F. HUTCHENS.

Witnesses:

WM. A. RHEA, L. L. ALLEN.