L. RAHNE.

STRING BEAN STRIPPER.

APPLICATION FILED OCT. 26, 1915.

1,176,095.

Patented Mar. 21, 1916.

Fig. 2.

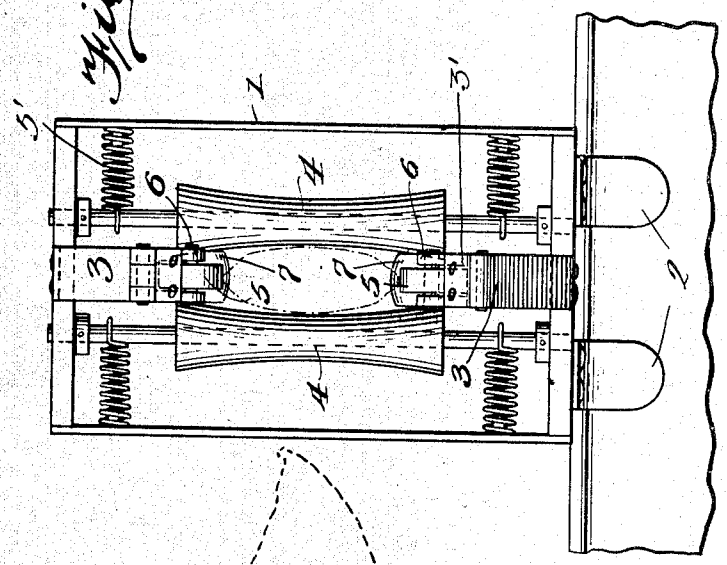
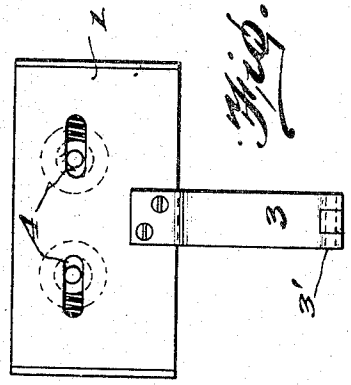


Fig. 4.



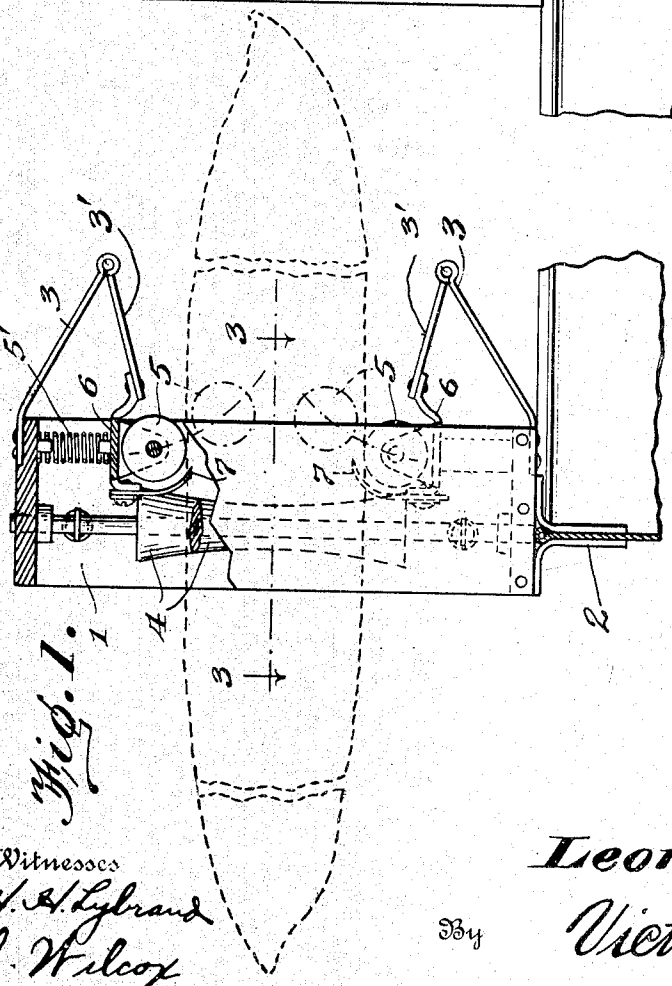


Fig. 1.

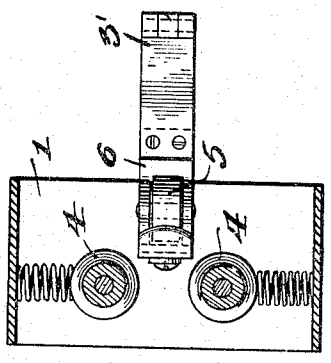


Fig. 3.

Witnesses

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STRING-BEAN STRIPPER.

1,176,095. Specification of Letters Patent. Patented Mar. 21, 1916.

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To all whom it may concern:

Be it known that I, LEONARD RAHNE, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented new and useful Improvements in String-Bean Strippers, of which the following is a specification.

This invention relates to devices especially adapted to be used for stripping strings from beans and the like and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a stripper of the character indicated which is adapted to be applied to the edge portion of a pan or other suitable receptacle and which is provided with resiliently supported blades adapted to cut into the opposite sides of the bean as it is passed through the device and remove the strings from the longitudinal seams between the opposite side portions of the hull of the bean. Guiding rollers are provided adjacent the said blades and serve as means for directing the upper and lower portions of the bean toward the blades. Side rollers are journaled upon the frame of the device and serve as means for directing the opposite side portions between the blades.

In the accompanying drawing:—Figure 1 is an edge elevation of the stripper. Fig. 2 is a front view of the same. The other figures 3 and 4 are detailed views of the features of the upper rollers.

The stripper comprises a body 1 having at its lower side clips 2 by means of which the said body may be applied and supported at the edge of a pan or other suitable receptacle. The body 1 is provided at one side with forwardly disposed portions 3 having hinged members 3′ which serve as means for directing the ends of the bean between the stripping blades hereinafter described. The body 1 is provided with a central opening the ends of the opening being located at the inner ends of the portions 3. Spring pressed rollers 4 are journaled at the opposite sides of the opening through the body 1 and the springs which operate upon the axes of the said rollers are under tension with a tendency to normally hold the rollers toward each other. As the beans are passed through the opening in the body 1 the rollers 4 bear against the opposite side portion of the beans and hold them in proper position with relation to the stripping blades. Rollers 5 are journaled at the upper and lower end portions of the opening through the body 1. The axes of the rollers 5 are disposed transversely with relation to the axes of the rollers 4. Frames 6 are attached to the axes of the rollers 5 and the said frames carry cutting blades 7 which are disposed at the upper and lower end portions of the opening through the body 1. Springs 5′ are interposed between the upper and lower walls of the opening through the body 1 and the frames 6 and normally hold the said frames toward each other.

In operation the body 1 is applied to the edge of a pan or other receptacle and the beans are passed successively through the opening in the said body. As the beans move longitudinally through the body the rollers 4 engage the opposite sides thereof and hold the beans in position while the rollers 5 engage the upper and lower sides of the beans and inasmuch as the blades 7 are connected to the frames 6 with the rollers 5 the said blades are properly positioned in order to cut into the upper and lower sides of the beans and remove the strings therefrom as the beans are passed through the body 1.

From the above description taken in conjunction with the accompanying drawing, it will be seen that a bean stripper of simple and durable structure is provided, and that the parts will automatically adjust themselves in order to accommodate beans of different transverse dimensions and in order to properly remove the strings from the upper and lower sides of the beans as the beans are passed successively through the body.

Having described the invention what is claimed is:—

1. A bean stripper comprising a body having an opening, spring pressed rollers located at the opposite sides of the opening, the tension of the springs which operate against the said rollers being such as to have a tendency to normally hold the rollers toward each other, spring pressed rollers mounted at the upper and lower end portions of the opening through the body, frames carried by the axes of the last mentioned rollers and stripping blades carried by the said frames.

2. A bean stripper comprising a body having at one side pointed guides and pro-

vided with an opening, rollers journaled at the opposite sides of the rollers, means for normally holding said rollers toward each other, rollers journaled at the upper and lower ends of the opening through the body, means for normally holding the last mentioned rollers toward each other, frames mounted upon the axes of the last mentioned rollers and stripping blades carried by the said frames.

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

LEONARD RAHNE.

Witnesses:
CARL J. SMITH,
M. A. SHALOW.