H. W. JONES.

DISINTEGRATOR SIFTER TOP.

APPLICATION FILED JUNE 12, 1920.

1,429,591.

Patented Sept. 19, 1922.

Fig. 1

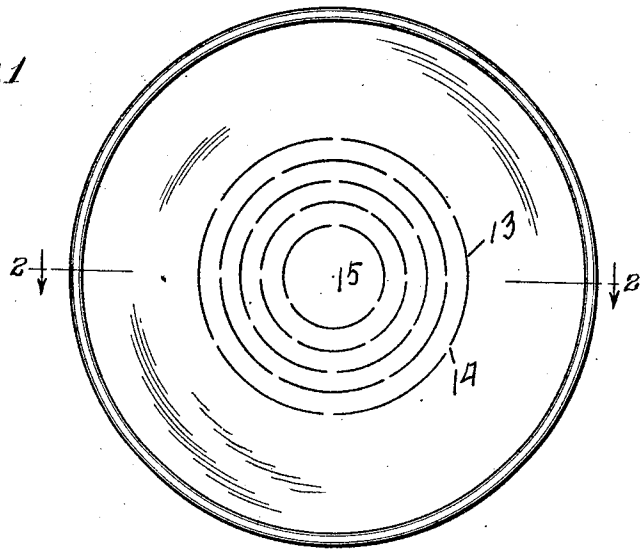


Fig. 2

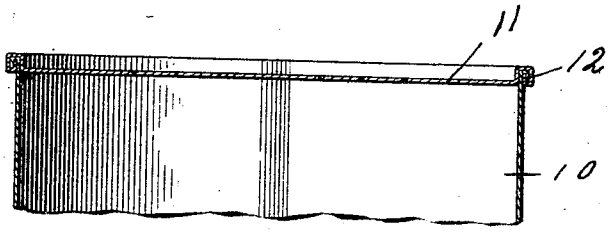
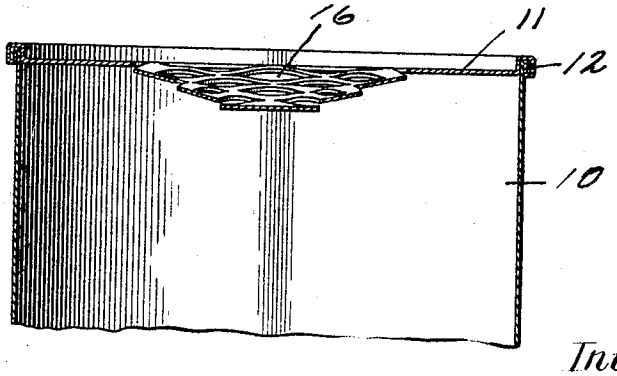


Fig. 3



Inventor

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By Munday, Clarke & Carpenter Atty's.

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UNITED STATES PATENT OFFICE.

HARRY W. JONES, OF NEW YORK, N. Y., ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

DISINTEGRATOR SIFTER TOP.

Application filed June 12, 1920. Serial No. 388,537.

To all whom it may concern:

Be it known that I, HARRY W. JONES, a citizen of the United States, residing in New York, in the county of New York and State of New York, have invented a new and useful Improvement in Disintegrator Sifter Tops, of which the following is a specification.

This invention relates in general to sifter top cans and has for its object broadly the provision of new and improved construction in cans having tops of this character wherein sifter openings are provided by the manipulation by the user of the material of the can and without providing any separate member or members for the closing of the perforations or sifter openings.

A principal object of the present invention is the provision of a construction in which the sifter openings will be tightly closed when the can is received by the user and which will permit of the establishment of sifter conditions by the user and through the exertion of a lightly applied pressure to the can wall or end. The invention contemplates in this respect a construction wherein the sifter openings may be provided by the user through and as a result of pressure exerted by his hand upon an appropriate portion of the can end.

Another principal object of the invention is in providing sifter openings in a can top that are produced upon the expanded metal principle and I have found that in slitting the metal in concentric circles to produce an expanded metal effect when opened that the slit portions can be pressed back into position and given a sufficiently tight joint to hold ordinary powdered materials.

Another important object of the invention is the provision of a disintegrator extending inwardly of the can from the sifter end.

Another important object of the invention is the provision of a can having these and other advantages which will not require the provision of additional parts or additional material and which will be cheap to manufacture and of distinctive and pleasing appearance.

Numerous other objects and advantages of the invention will be apparent from the following description, when taken in connection with the accompanying drawing which illustrates a preferred embodiment thereof.

Referring to the drawings,

Figure 1 is a top plan view of a can embodying my invention;

Fig. 2 is a section through the same on the line 2—2 of Fig. 1 and showing the arrangement before the can end is pressed by the user to provide the sifter openings; and

Fig. 3 is a view similar to Fig. 2 showing the arrangement after the sifter openings are provided.

For the purpose of illustrating my invention I have shown on the drawing a can comprising a body 10 having a cover 11 seamed or otherwise secured to the body at 12.

The cover or end wall 11 is provided with a number of series of lines of severance 13. The members of each series are arranged in circular formation and the several series are concentric. The adjacent ends of members of each series are staggered with relation to the adjacent ends of members of adjacent series, leaving staggered parts 14 which are not to be broken away when the sifter openings are provided, as will be presently described. At the center of the slits a part 15 is provided which is adapted to be pressed by the user to provide the sifter openings. The slits are provided by cutting the material along the lines of severance and returning it to its normal or original position thereafter, this normal or original position being in the present instance in the plane of the body of the end.

When the central part 15 is pressed, opening occurs along the lines of severance, the result being an expanded metal portion providing sifter openings 16 and extending into the can to provide also a disintegrator adapted to break up lumpy contents in the package.

It is thought that the invention and many of its attendant advantages will be apparent from the foregoing, without further description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore being merely a preferred embodiment thereof.

I claim:

1. A can wall having a part of expanded metal formation providing sifter openings.

2. A can wall having a part of expanded

metal formation providing for the disintegration of lumpy content within the can.

3. A can wall having a portion surrounded by a plurality of concentric series of severed lines the members of each series being arranged in circular formation with their adjacent ends separated and staggered with respect to the adjacent ends of the members of adjacent series.

4. A can wall having a portion provided with severed lines and adapted upon being pressed inwardly of the can to form an expanded metal portion having sifter openings said lines of severance being formed by cutting through the material and pressing the material back into position to close any opening formed by the cutting.

HARRY W. JONES.