

No. 788,882.

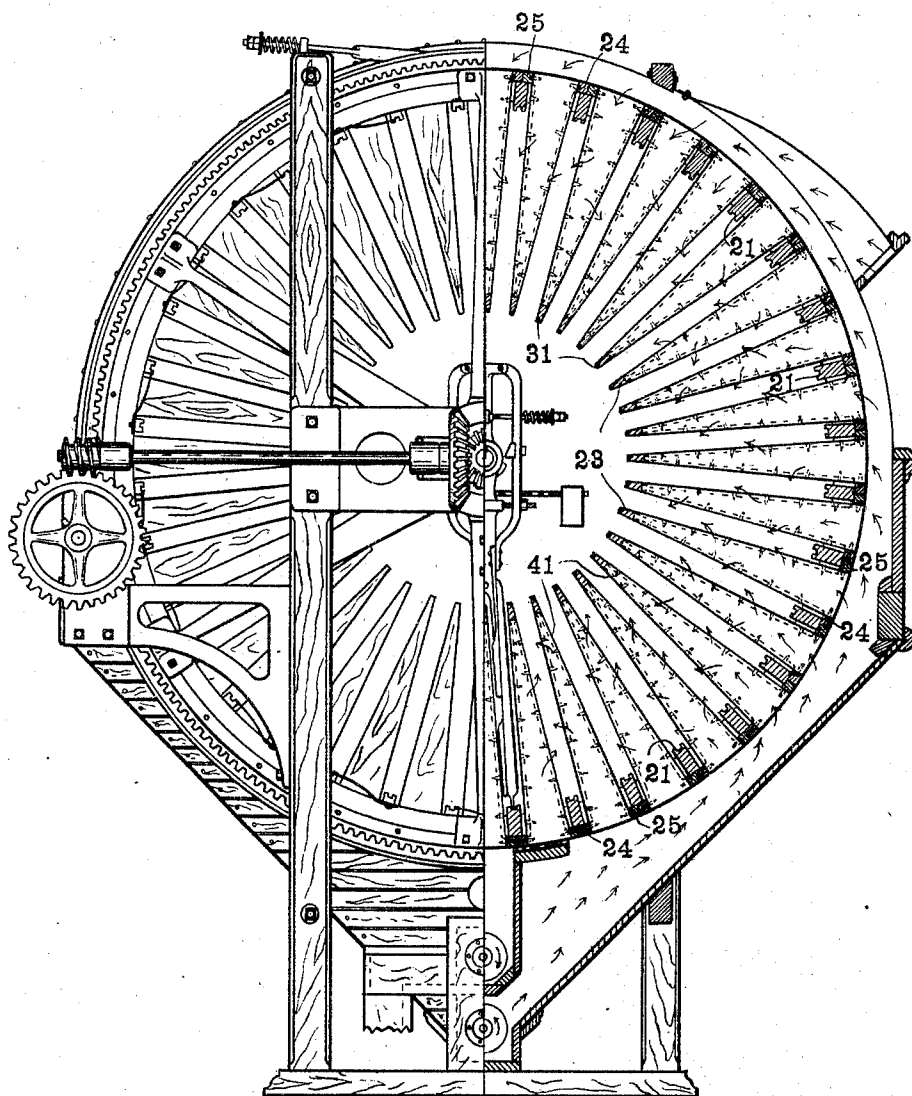
PATENTED MAY 2, 1905.

A. C. BRANTINGHAM.
SEPARATING POCKET FOR DUST COLLECTORS.

APPLICATION FILED JUNE 12, 1903.

2 SHEETS—SHEET 1.

Fig. 1.



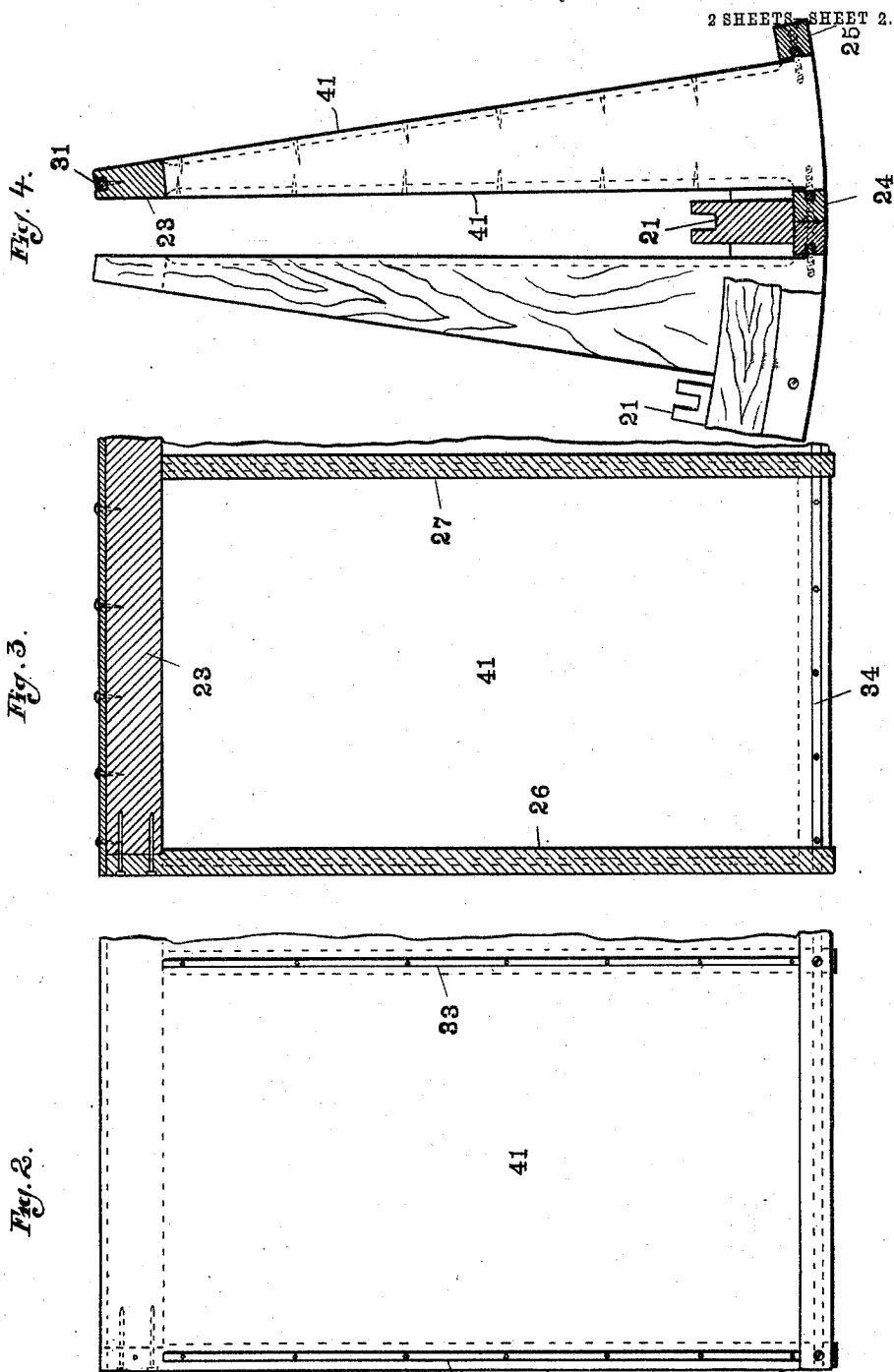
Witnesses
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UNITED STATES PATENT OFFICE.

ALLEN C. BRANTINGHAM, OF TOLEDO, OHIO.

SEPARATING-POCKET FOR DUST-COLLECTORS.

SPECIFICATION forming part of Letters Patent No. 788,882, dated May 2, 1905.

Application filed June 12, 1903. Serial No. 161,196.

To all whom it may concern:

Be it known that I, ALLEN C. BRANTINGHAM, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Separating-Pockets for Dust-Collectors, of which the following is a specification.

The object of my said invention is to produce for use in dust-collectors separate "pockets" or divisions which may be constructed in quantities and easily and quickly inserted into and removed from the dust-collecting structure.

Said invention will be fully described, and the novel features thereof then pointed out in the claim.

Referring to the accompanying drawings, which are made a part hereof, and on which similar reference characters indicate similar parts, Figure 1 is a view, partly in elevation and partly in transverse vertical section, of a dust-collecting machine provided with separating-pockets embodying my present invention. Fig. 2 is a side elevation of a fragment of one of said pockets; Fig. 3, a longitudinal sectional view of the same parts shown in Fig. 2; and Fig. 4, a view showing two of said pockets assembled together, one of them being shown in end elevation and the other in transverse section.

The dust-collector, generally speaking, is that shown and described in my companion application, Serial No. 151,599, filed April 8, 1903. As the general construction and arrangement thereof are not involved in my present invention, they will not be further described herein except incidentally in describing said invention. The rotary frame of said dust-collector, however, is provided at its periphery with a series of longitudinally-extending frame members 21, which form the principal supports for my improved separating-pockets. Said pockets are each composed of three longitudinally-extending frame-bars 23, 24, and 25 and walls 26 and as many intermediate supports 27 as the length of said separating-pockets require. In the outer face of the strip 23 is a groove into which a cloth-

holding strips 32 are laid into similar grooves in each of the end walls 26. Similar strips 33 are also laid into like grooves in the outer edges of the intermediate supports 27, and like strips 34 are laid into similar grooves in the inner faces of the frame-bars 24 and 25. After the frames are made from the bars 23, 24, 25, 26, and 27 the pockets are completed by drawing the usual cloth or fabric 41 over the outer sides thereof and securing the same thereto by means of the several strips 31, 32, 33, and 34, which are secured in place by suitable nails or screws. These pockets when completed are substantially triangular in cross-section and are inserted into the circular revolving frame by being pushed in from the outside. The pocket frame-bars 24 and 25 rest against the longitudinal members 21 of the rotary frame structure, which hold them in position in one direction, while the said frame-bars 24 and 25 of the adjacent pockets are so constructed and arranged as to fit against each other, and thus properly space said separating-pockets circumferentially of the structure. As will be readily seen, therefore, by means of my invention I am able to provide separating-pockets which are quickly and easily removable and replaceable and which when worn out may be easily and quickly renewed by others which may be kept in stock ready for use. It will be readily understood that in small machines the bar 23 may be required to be quite thin, in which case the groove in said bar would be omitted and a single strip of cloth 41 carried across said bar and fastened at its opposite ends to the bars 24 and 25.

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

The combination, with the rotary frame structure of a dust-collector having longitudinal members 21, of a multiplicity of separating-pockets substantially triangular in cross-section and formed separately from said rotary frame structure and arranged to be inserted therein from the periphery, and when so inserted disposed radially thereof, each of said pockets embodying the several frame-bars 23, 24 and 25, the end walls 26, the in-

intermediate supports 27, and cloth walls secured to said several parts, the bars 24 and 25 of each pocket resting both against the frame-bars 21 of the rotary structure and
5 against each other when in place, whereby a rotary sieve structure is produced with numerous removable pockets, all substantially as shown and described.

In witness whereof I have hereunto set my hand and seal at Toledo, Ohio, this 8th day of June, A. D. 1903.

ALLEN C. BRANTINGHAM. [L. s.]

Witnesses:

HARRY P. GILL,
F. D. LEIST.