

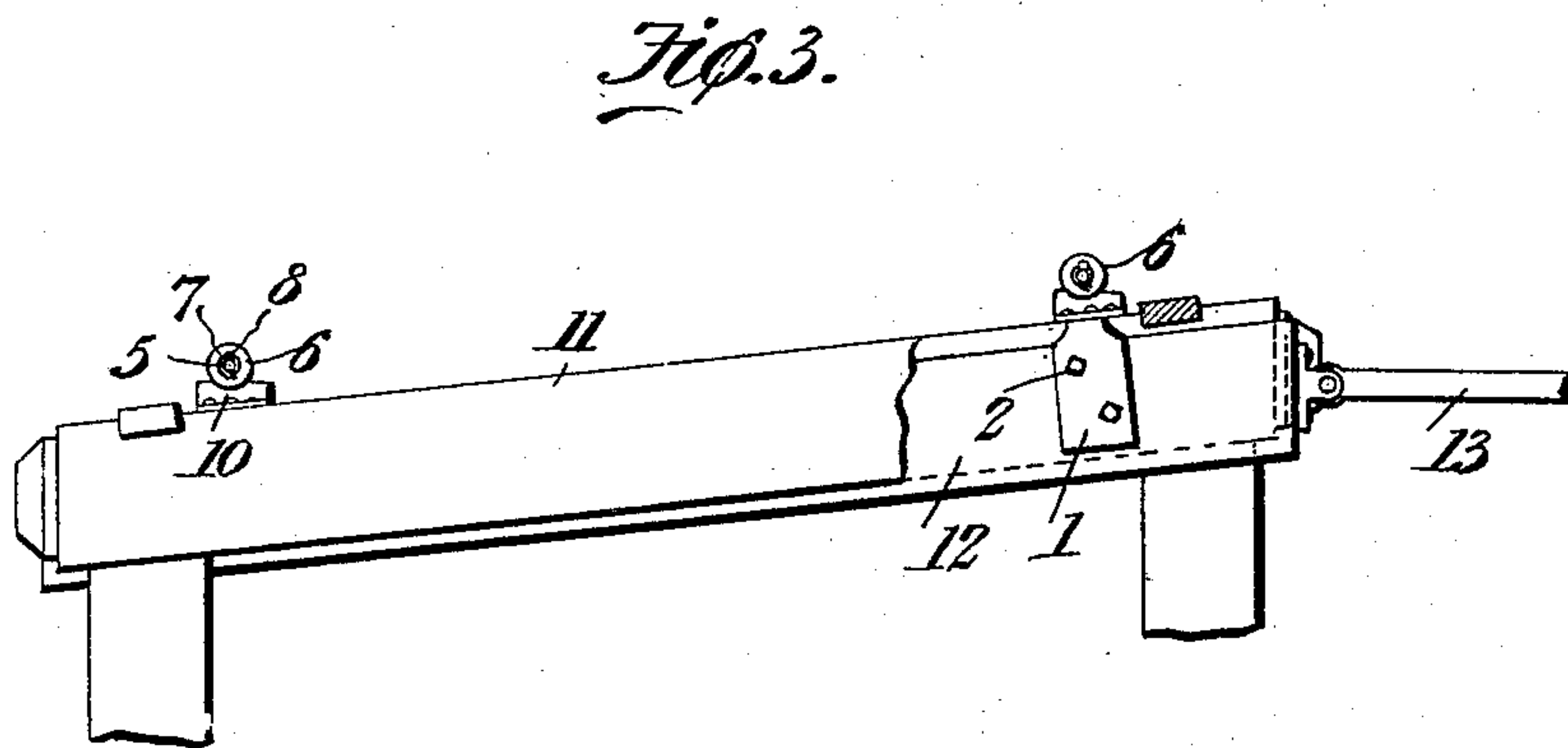
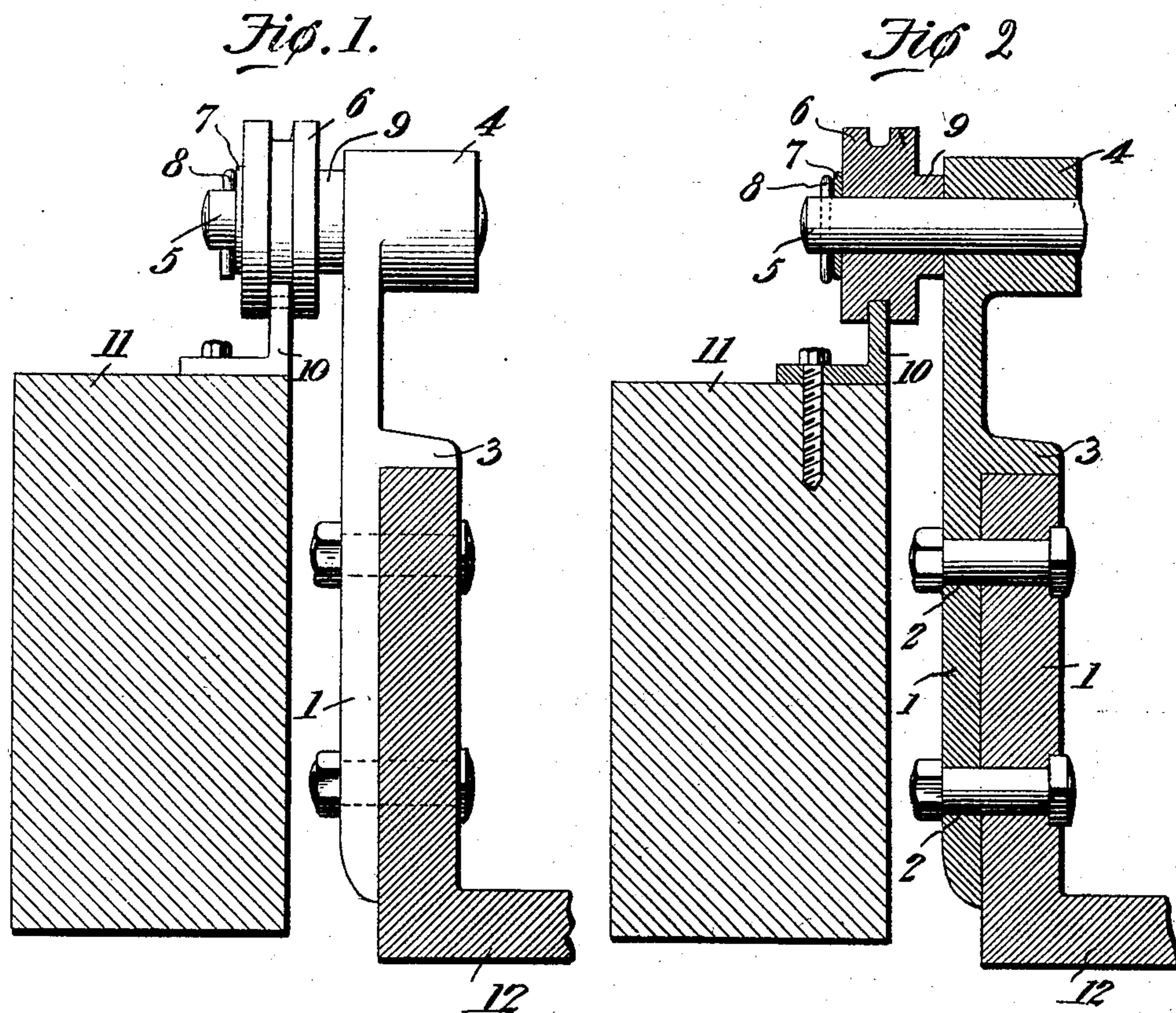
No. 774,126.

PATENTED NOV. 1, 1904.

J. C. WINDER.
SHAKER HANGER.

APPLICATION FILED MAY 14, 1904.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES C. WINDER, OF EASTPOINT, GEORGIA, ASSIGNOR TO ATLANTA
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SHAKER-HANGER.

SPECIFICATION forming part of Letters Patent No. 774,126, dated November 1, 1904.

Application filed May 14, 1904. Serial No. 207,994. (No model.)

To all whom it may concern:

Be it known that I, JAMES C. WINDER, a citizen of the United States, residing at Eastpoint, in the county of Fulton and State of Georgia, have invented a new and useful Shaker-Hanger, of which the following is a specification.

This invention relates to shaker-hangers or devices for suspending shakers in shaking-screens in order that a shaking or combined vertically and horizontally reciprocatory motion may be imparted to such shakers or screens for the purpose of effecting or assisting in effecting separation of material supported thereon.

This improved shaker-hanger, while capable of being utilized in all places where shakers and shaking-screens are employed, has been especially designed for use in connection with cotton-seed-oil machinery and for special application to the shakers in which the separation of the hulls from the meats of the cotton-seeds is effected.

Among the objects of this invention are to provide a device of this class of extreme simplicity, durability, and economy of construction, also to provide a device in which friction and consequent wear and tear shall be reduced to a minimum.

A further object is to provide a device composed of but very few parts which may be easily assembled, disconnected, and adjusted in operative position as may be required.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of embodiment of this invention, it being understood, however, that no limitation is necessarily made to the precise structural details therein exhibited, but that the right is reserved to make any changes, alterations, and modifications which come fairly within the scope of the invention and which may be resorted

to without departing from the spirit or sacrificing any of the advantages of the same.

In said drawings, Figure 1 is a side view of the improved shaker-hanger, showing also a portion of the inclined track used in connection therewith. Fig. 2 is a vertical sectional view showing the device in the position shown in Fig. 1. Fig. 3 is a side elevation, partly in section, showing a part of the shaker-frame and of a shaker supported thereon by the improved hangers.

Corresponding parts in the several figures are indicated by similar numerals of reference.

The improved shaker-hanger which forms the subject of this invention includes a supporting-plate 1, provided with perforations 2 for the passage of bolts whereby it may be secured to the outer side of a shaker-casing, said plate being provided with a flange 3, adapted to rest upon the upper edge of said casing.

At the upper end of the plate 1 is formed a cylindrical head 4, extending over the flange 3 and carrying a pin or shaft 5, which extends in the opposite direction from the side of the plate upon which the flange 3 is located. Upon this pin is journaled an annularly-grooved roller 6, which is secured in position by means of a washer 7 and cotter-pin 8, said roller being provided upon its inner side with a lateral extension or hub portion 9, whereby it is spaced from the plate 1.

10 designates a flange-plate angular or L-shaped in cross-section and the upstanding flange of which is wedge-shaped or inclined, said wedge-shaped flange constituting a track upon which the grooved roller 6 may ride.

In operation a plurality of the flange-plates 10 are bolted upon the top beams of the frame 11, which serves as a support for the shaker 12, to the side of which latter the hangers are bolted or otherwise secured in such a position that the grooved roller 6 of each hanger shall properly engage and ride upon the inclined track thus provided. Reciprocatory movement is imparted to the shaker by suitable means, preferably including a pitman 13, connecting said shaker with any suitable

source of power. When the device is in operation, the shaker when moving in an upward direction upon the inclined tracks will have a tendency to toss the material supported thereon in an upward direction, thus thoroughly agitating the same and assisting in the process of separation. When the shaker recedes and moves downwardly upon the inclined tracks, it will practically be pulled from under the material which is to be separated, which will practically result in feeding the material upon the shaker in a direction opposite to the receding movement of the latter.

It will be understood that in practice any desired number of my improved hangers may be applied to a shaker, also that any well-known and approved means may be employed for operating the latter.

Having thus described the invention, what is claimed is—

1. A shaker-hanger consisting of a plate having on one side thereof a laterally-extending flange constituting a seat for the shaker-casing, and a head extending laterally above said flange; a pin extending transversely through said head and projecting upon the

side of the plate opposite to the flange forming the shaker-seat; and a grooved roller journaled upon said pin; the said roller and the said shaker-seat being spaced apart by the body of the plate and disposed in parallel vertical planes.

2. A shaker-hanger consisting of a plate having on one side thereof a laterally-extending flange constituting a seat for the shaker-casing and a head extending laterally above said flange; a pin extending transversely through said head and projecting upon the side of the plate opposite to the flange forming the shaker-seat; and a grooved roller journaled upon said pin; in combination with a supporting-frame and an inclined, wedge-shaped flange-rail upon said frame affording a track for the roller.

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

JAMES C. WINDER.

Witnesses:

W. H. BARPIELL,

J. L. HEAD.