

(No Model.)

J. A. & M. T. MURPHY.

OIL CAKE MAT.

No. 346,059.

Patented July 20, 1886.

Fig. 1 =

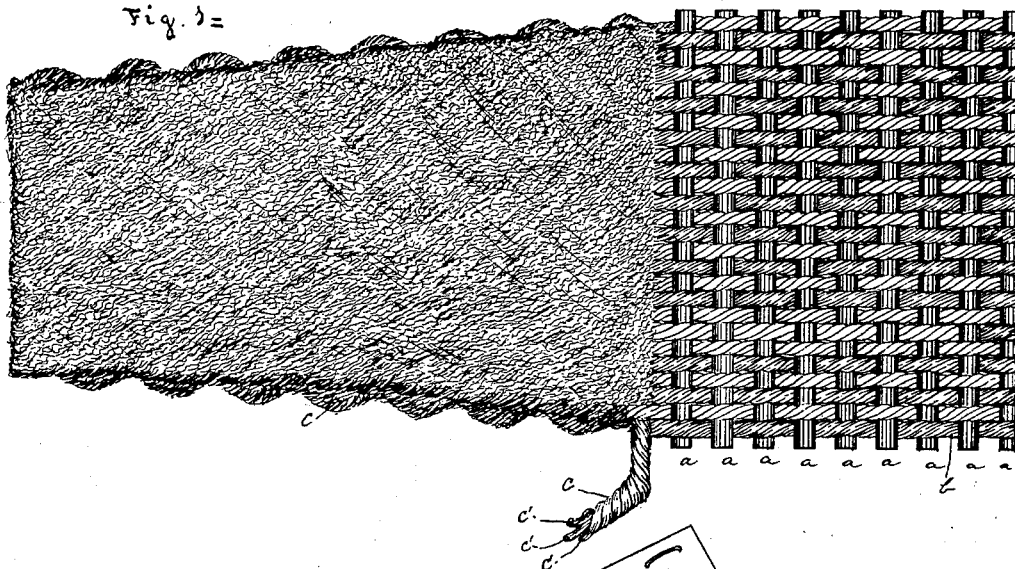
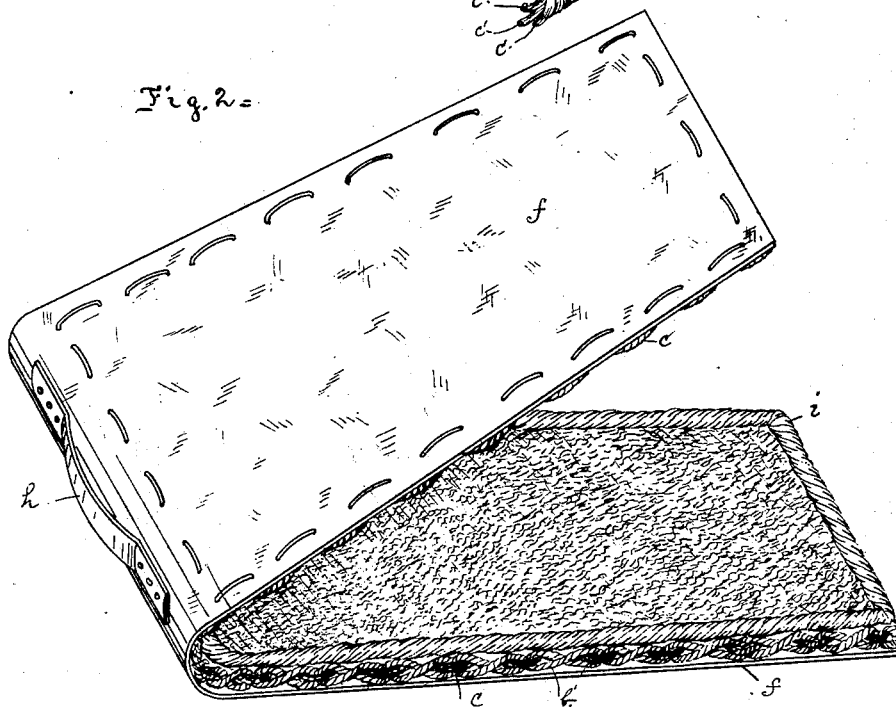


Fig. 2 =



WITNESSES

A. B. Price
B. A. Cook

INVENTORS,

INVENTORS
M. J. Murphy
J. A. Murphy
By their Attorney
H. N. Jenkins

UNITED STATES PATENT OFFICE.

JUNIUS A. MURPHY AND MARCUS T. MURPHY, OF NEW ORLEANS, LA.

OIL-CAKE MAT.

SPECIFICATION forming part of Letters Patent No. 346,059, dated July 20, 1886.

Application filed October 12, 1885. Serial No. 179,708. (No model.)

To all whom it may concern:

Be it known that we, JUNIUS AUGUSTUS MURPHY and MARCUS TULLIUS MURPHY, citizens of the United States, residing at New Orleans, parish of Orleans, State of Louisiana, have invented new and useful Improvements in Oil-Cake Mats, of which the following is a full and exact description, reference being had to the accompanying drawings, making part of this specification.

This invention relates to that class of oil-press mats the body or leaves of which are composed of woven material; and the nature thereof consists in the combination of hair warps and combined hair and wire woofs, the former compressed together and the latter adapted to hold the former in its compressed state, preventing any expansion of same, either while lying in stock or when subjected to the action of the press.

In the accompanying drawings, Figure 1 is a plan or top view of our mat body or leaves, a portion of which is shown as finished and the balance only partially so. Fig. 2 is a perspective view of the mat complete.

On the drawings, the letter *a* designates a series of bars, which are arranged at uniform distances apart across a suitable frame to permit of the weaving of the warp *b* between same. This is done by drawing the said warp from one end of the frame over the first bar, thence under the second and over the third bars, and in continuing the said process until the last bar is reached, when the warp is drawn tightly around same and returned alternately under and over the different bars to the starting-point, from whence it is in like manner carried back and forth until a sufficient quantity of warp to produce a given size mat has been woven on the rods. A pair of clamping-bars (not shown in the drawings for the reason that they form no part of the invention proper) are then placed on the ends of the bars *a* at each side of the woven material, and with the said material and bars are next removed to a hydraulic press, in which the said plates are pressed toward each other until the material

between same has been reduced to the requisite width of mat required, when the plates are secured together by the aid of suitable fastenings and the material removed from the press. One of the rods *a* is next withdrawn from the woven material, and a woof-rope, composed of strands of hair, hemp, or other suitable material, *c*, and wires *c'*, is snugged into the hole left thereby. In like manner the different rods *a* are successively withdrawn and replaced by the woof-rope, which is tightly drawn through the same, and thus by its alternating course is made to securely bind the warp in its compressed state and to impart a finished or selvage edge to each side of the mat. The mat thus formed is adapted to be folded at its center, so as to be opened or closed as occasion may require, and the back of the mat is covered with leather, *f*, having a handle, *h*, secured to the hinge or folding part thereof to facilitate the handling of same. An edging or round rope, *i*, is sewed into each edge of the mat, as in other mats used for a similar purpose.

We are aware that oil-press mats have been heretofore used in which wire has been woven with the ropes, as shown and described in Letters Patent No. 150,941 to W. H. Crocker; but in this case the center or middle ribs forming the hinge are made of hair rope without wire. We are also aware of patent to T. H. Murphy, No. 170,886, in which the wire is woven with the warp-ropes, but without crossing the center of the mat. In the first case a different woof is used in the center or hinge of the mat, and in the other case the wire is woven in the leaves only. In our construction the combined hair and wire woof is woven from side to side of the mat throughout its whole length, which prevents any expansion in its width, while in no manner interfering with the folding of its hinge or center.

Heretofore in the construction of woven mats we have pressed so many warps into a given space that the usual hair woof would not hold them without expanding; consequently we had for a time to decrease the number

of warps and produce an inferior article to that which we now manufacture as above described.

What we claim as new, and desire to secure
5 by Letters Patent, is—

An oil-press mat having its warp-ropes composed of hair and its woof-ropes of combined hair and wire, the woof-ropes woven through the mat from end to end, substantially as described, whereby the mat is prevented from

expanding in width and adapted to be folded in the center, as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JUNIUS A. MURPHY.
MARCUS T. MURPHY.

Witnesses:

ANDREW HERO, Jr.,
HENRY GOVAN.