

No. 640,608.

Patented Jan. 2, 1900.

R. F. WERK.  
OIL PRESS MAT.

(Application filed Mar. 7, 1899.)

(No Model.)

FIG. 1.

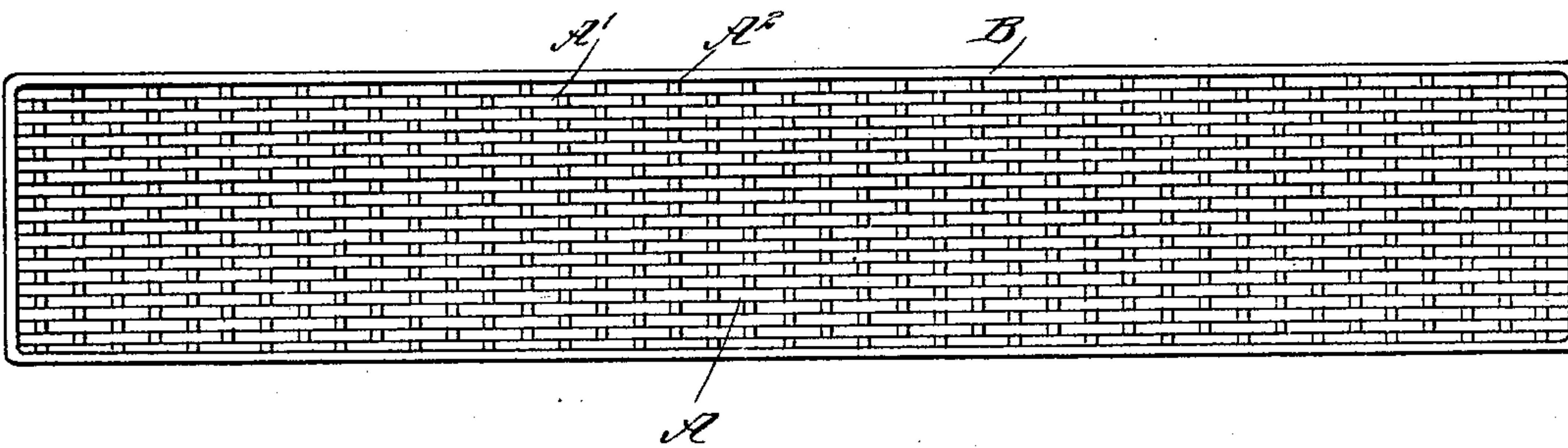


FIG. 2.

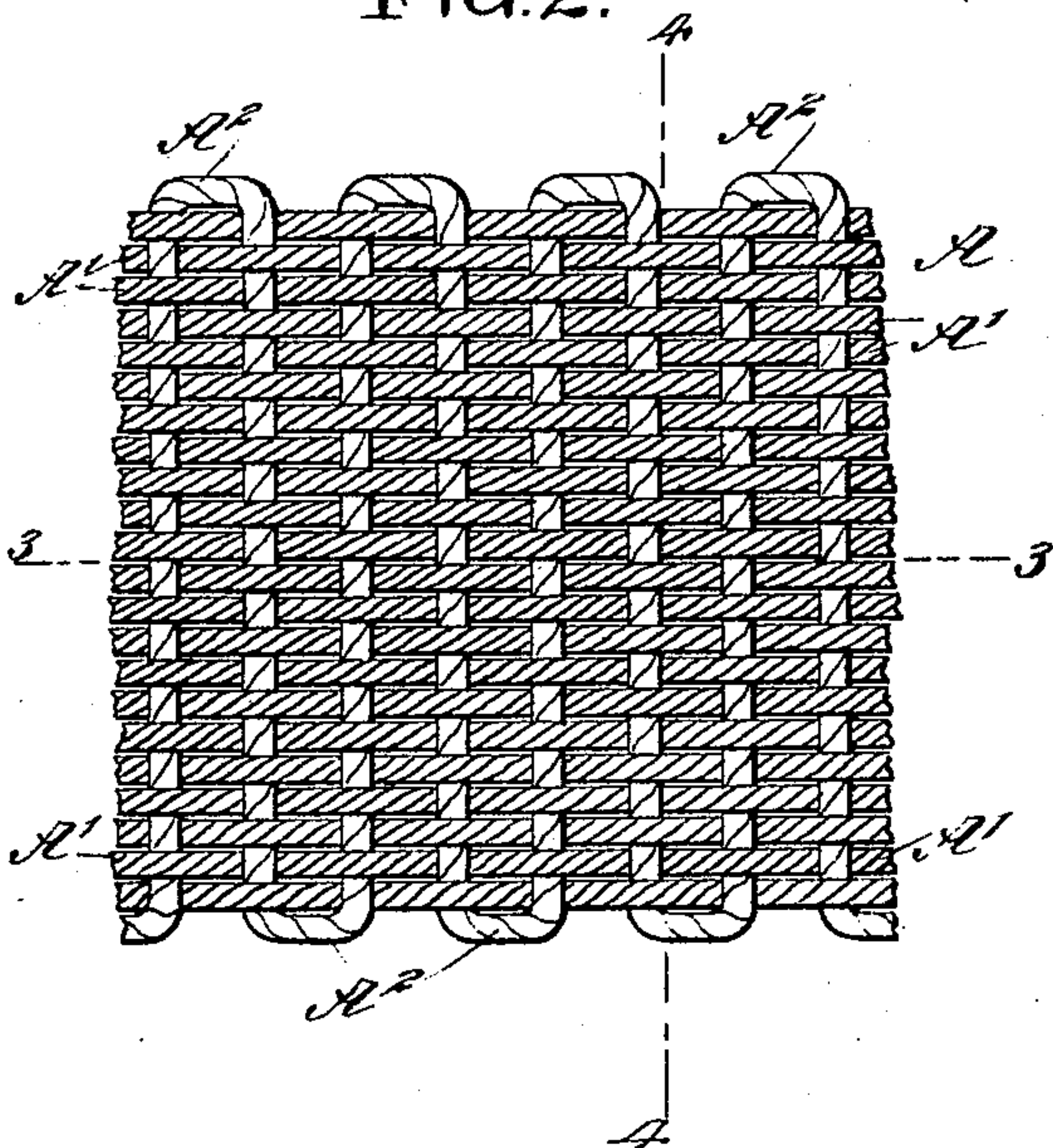


FIG. 3.

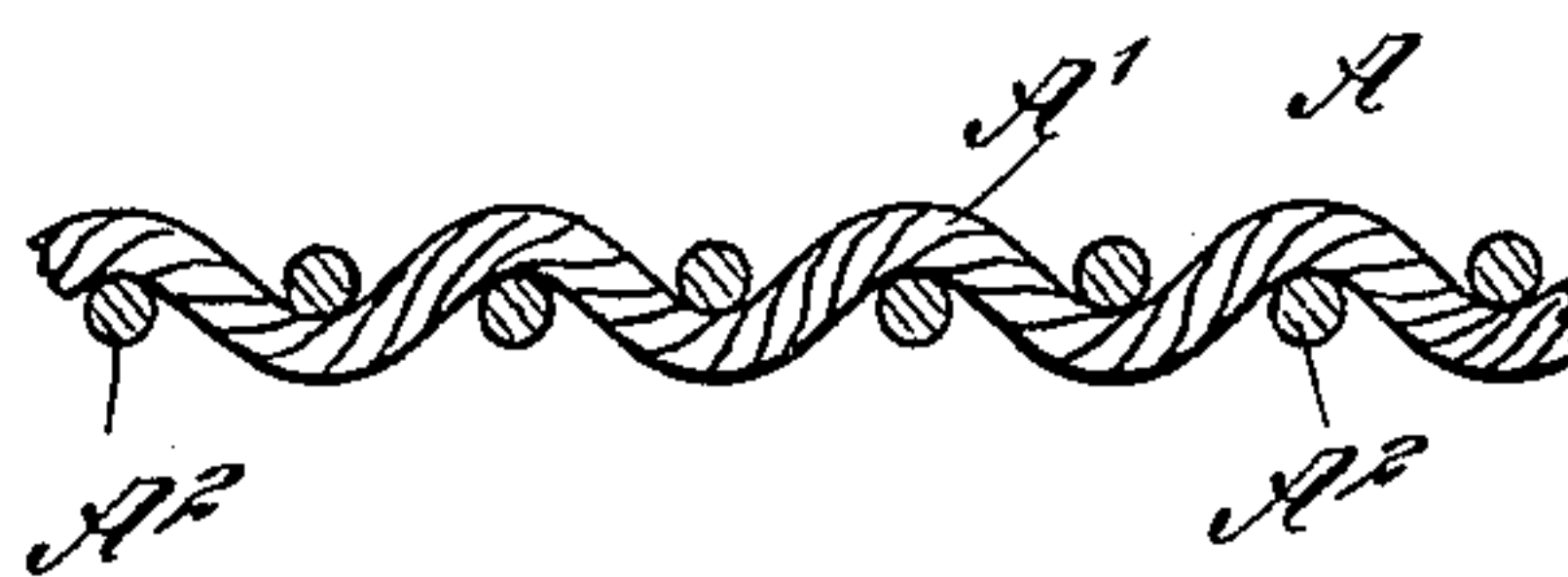
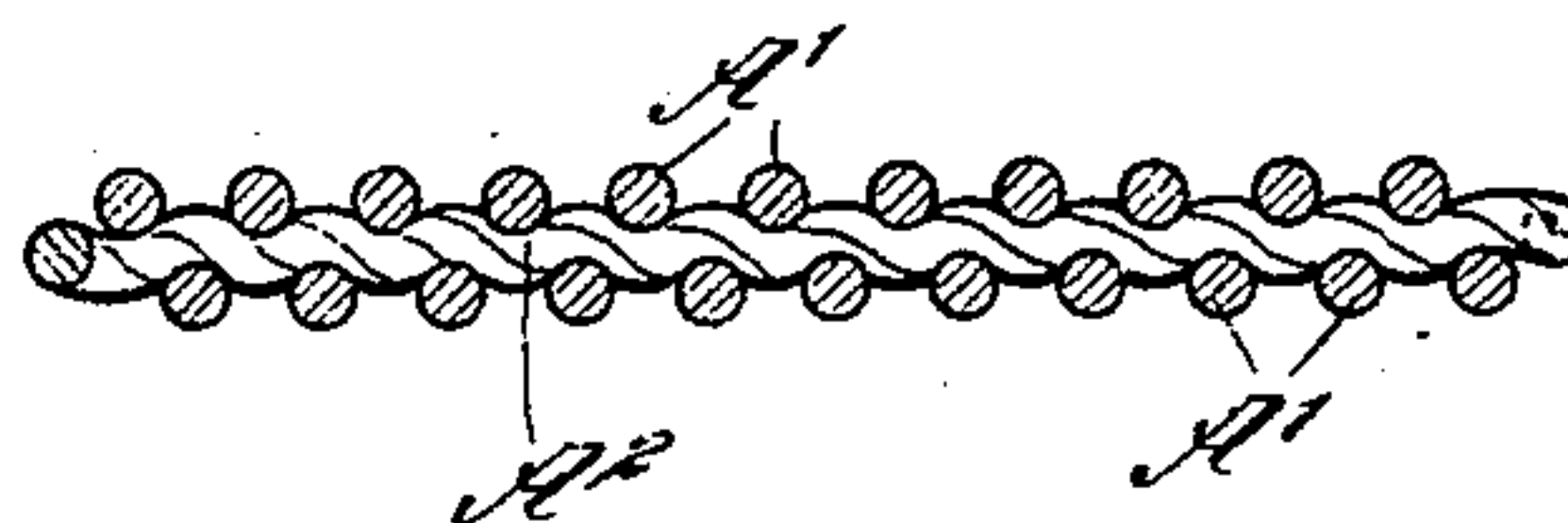


FIG. 4.



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# UNITED STATES PATENT OFFICE.

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## OIL-PRESS MAT.

SPECIFICATION forming part of Letters Patent No. 640,608, dated January 2, 1900.

Application filed March 7, 1899. Serial No. 708,149. (No specimens.)

*To all whom it may concern:*

Be it known that I, ROBERT F. WERK, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Oil-Press Cloth, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved oil-press cloth more especially designed for use in cotton-seed and other presses and which is simple and extremely durable in construction, not liable to lose its shape when subjected to the heavy pressure of the press, and not liable to stick to the meal-cake.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

A practical embodiment of my invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the improvement. Fig. 2 is an enlarged plan view of part of the fabric. Fig. 3 is a sectional side elevation of the same on the line 3 3 in Fig. 2, and Fig. 4 is a transverse section of the same on the line 4 4 in Fig. 2.

The press-cloth, as shown in Fig. 1, is formed from a woven fabric A, preferably provided with a suitable edge-binding B for readily maintaining the shape of the cloth. The fabric A is formed of warp-threads A' and weft-threads A<sup>2</sup>, both made of horse or cattle hairs. The hairs selected for the warp-threads are of a coarse and strong nature, as horse-tail hair, and are spun and twisted with a hard twist—that is, given considerable twist—while the hairs for the weft-thread are soft and pliable, as cattle-tail hair, and spun and twisted with but little twist, so that the weft-threads are rendered soft and pliable.

The warp-threads and the weft-threads formed in the manner described are inter-

woven on a suitable loom for forming the fabric A, in which the weft-threads form a soft cushion for the warp-threads while the cloth is under pressure in the press, so that the weft-threads yield to the hard warp-threads, and the interwoven warp and weft threads are not likely to cut each other, as would be the case if the weft-threads were as hard as the warp-threads. It will be understood that when the press-cloth is used the warp-threads are subjected to a very heavy strain while undergoing the pressure in the press when pressing out the oil from the seed, and hence the stronger and more durable the warp-threads the longer the cloth will last.

It will be evident from the foregoing that by the construction described long life of the press-cloth is insured, especially as the strain-bearing warp is made very durable, and the warp and weft threads are not liable to cut each other, owing to the soft nature of the weft-threads, which form a cushion for the warp-threads.

After spinning and twisting the hairs for forming a warp-thread it is necessary to pass the thread through rotary shears or other devices for clipping off the projecting or outstanding ends of the hairs, as such ends would prevent the proper passage of the weft-thread through the shed when the fabric is being woven.

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

An oil-press cloth consisting of a fabric composed of animal long hair, the hairs forming the warp-threads of the fabric being hard, stiff or coarse, and having a hard twist, and the hairs for the weft-threads being soft pliable hair, and having a soft twist, substantially as described.

ROBERT F. WERK.

Witnesses:

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JEAN MARQUE.