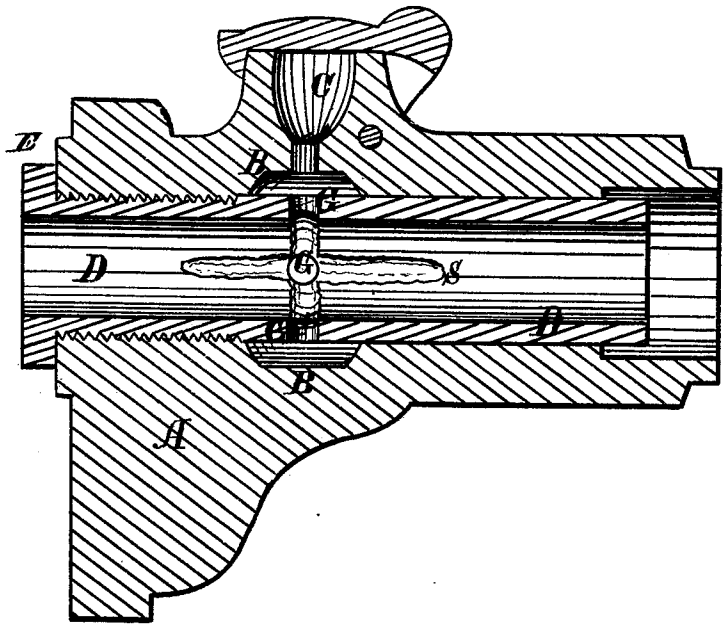
T. S. BROWN.

JOURNAL BOXES FOR HARVESTERS.

No. 174,941. Patented March 21, 1876.



ATTESTS

J. Bonsall Taylor.

W. R. Wright.

INVENTOR

Thomas S. Brown

by his atty

O. C. Brownell

UNITED STATES PATENT OFFICE.

THOMAS S. BROWN, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN P. ADRIANCE, OF SAME PLACE.

IMPROVEMENT IN JOURNAL-BOXES FOR HARVESTERS.

Specification forming part of Letters Patent No. **174,941**, dated March 21, 1876; application filed February 7, 1876.

To all whom it may concern:

Be it known that I, THOMAS S. BROWN, of Poughkeepsie, in the State of New York, have invented a new and useful Journal-Box for Harvesters or other Machinery, of which the following is a specification:

The drawing is a longitudinal cross-section of a journal-box for the shaft of a harvester.

The object of my invention is to construct a bearing or journal-box for mowers, reapers, or other machinery that can be renewed in the field, if necessary, by one unskilled in mechanics, and which shall be a constantly self-oiling box.

My invention consists of an annular or other oil-chamber, cast or formed within the socket of a journal-box, in combination with a series of holes or perforations, G G, bored through a bushing screwing into the socket, which are so placed as always to open into the chamber, the whole forming a continuous oil-feeding arrangement, securing a constant lubrication.

In the drawing, A represents a socket cast in the frame-work of a harvester, and of any desired form, bored longitudinally throughout, and cut internally with a screw-thread to a certain distance. C is an oil-cup, opening into an annular chamber, B, which is cast inside the socket in any convenient form. D is a bushing of composition-metal, screwing, with a right or left hand screw, into the socket, according to the direction of rotation of the shaft which it surrounds, so that should the bushing become loosened the shaft, in its rotation, will tighten it up in the proper direction. The outer end of the bushing forms a collar, E, to bear against the end of the socket, and is made of hexagonal, or other form, so that it can be turned in or out with an ordinary wrench. Upon a line coming opposite to the chamber B of the socket a series of holes, G, are bored through the bushing, so as to allow the oil from the cup C and chamber B to flow through the bushing and lubricate the shaft.

It will be readily understood that with this arrangement there can be no possibility of any mismatching of oil-holes, and thus securing a constant and regular lubrication of the shaft. S S are grooves within the bushing, to retain the oil.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with a harvester-frame, of a shouldered self-oiling screw-bushing, for ready adjustment in the field, substantially as described.

THOS. S. BROWN.

Witnesses:

I. REYNOLDS ADRIANCE,

HENRY R. HOWARD.