

W. OLIVER.
PICKER.
APPLICATION FILED APR. 13, 1909.

983,927.

Patented Feb. 14, 1911.

Fig. 1.

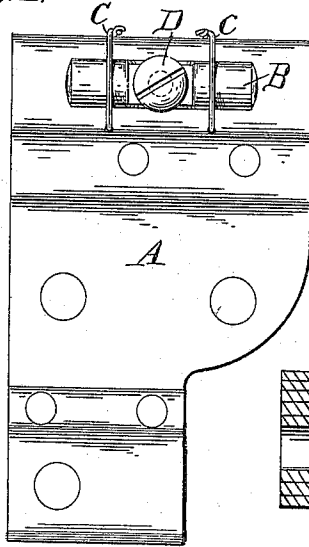


Fig. 5.

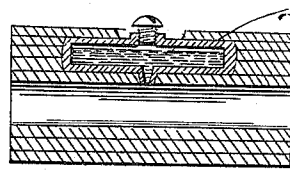


Fig. 2.

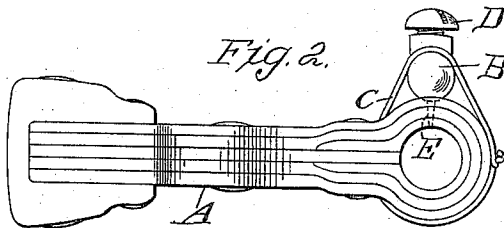


Fig. 3.

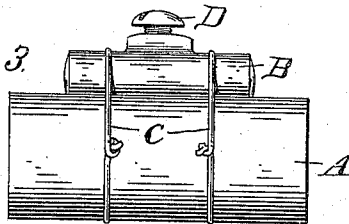
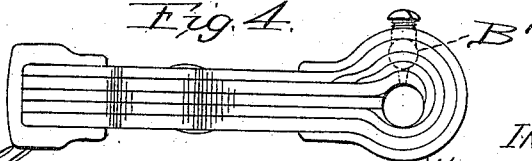


Fig. 4.



ATTEST.

Bent M. Stahl
E. A. Tolson

INVENTOR.

WALTER OLIVER.

By Spear Middleton Donaldson & Co.
ATTYS.

UNITED STATES PATENT OFFICE.

WALTER OLIVER, OF BROAD BROOK, CONNECTICUT.

PICKER.

983,927.

Specification of Letters Patent.

Patented Feb. 14, 1911.

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To all whom it may concern:

Be it known that I, WALTER OLIVER, a subject of the King of Great Britain, residing at Broad Brook, Connecticut, have
5 invented certain new and useful Improvements in Pickers, of which the following is a specification.

My invention is designed to provide a self-oiling picker for a power loom, and I carry
10 out my invention by utilizing the picker as a carrier for the oil box or lubricant holder, the oil being fed from the holder through an opening in the picker to the surface of the picker rod.

15 The picker, which is of rawhide, travels at high speed on the picker rod, the result being that the rod is heated, and unless well lubricated, the picker binds. Ordinarily, the common practice is to lubricate the rod
20 by putting oil thereon mechanically, but this not only is a waste of oil, but the first sweep of the picker practically clears the rod of oil. By providing the picker, as in my invention, with an oil container or holder, the oil is fed
25 gradually to the rod at the point of contact between the rod and the picker, and the feeding may be controlled to meet the demands or requirements. I thus save oil; the oil is put where it is most effective; the
30 strain upon the picker sticks is lessened; and power is also saved, as very little power is required to pick on a well oiled rod as compared with a heated rod where binding is frequent.

35 In the accompanying drawings I have shown, in plan view in Figure 1, a form of picker of ordinary construction embodying one form of my invention; Fig. 2 is an end view of the same; Fig. 3 a rear view; Fig.
40 4 is an end view of a modification; and Fig. 5 a sectional view of the modification.

In these figures, the holder or carrier for the lubricant is only illustrative, and I do not limit myself to the exact construction
45 shown nor to the location of the reservoir. In the form shown in Figs. 1, 2 and 3, A represents the usual rawhide picker; B is a metal cylinder of any suitable form of construction held, for instance, as by wires C.
50 The reservoir is of such size as to hold a suit-

able amount of oil or other lubricant, and a screw cap D closes the opening to the reservoir. A feed opening E extends from the bottom of the reservoir through the material of the picker to the opening therein fitted
55 to receive the picker rod. The screw cap is fitted loosely enough to allow air to pass between its threads into the oil receptacle to permit the flow of oil. The blow of the
60 picker and the frictional contact with the rod is sufficient to keep the rod well lubricated. By screwing the cap down until its head covers the opening, the supply of
65 air is cut off and the feed of oil stopped. The amount of oil delivered may be controlled by moving the head more or less
away from the top of the opening.

In Figs. 4 and 5 I show a preferred construction. In these figures, I embed the reservoir B' in the material of the picker so
70 that it is thoroughly protected from all liability of displacement. Otherwise, the construction is as described in connection with Figs. 1 to 3.

The advantages of my invention are apparent. The moving part carrying the lubricant applies the oil at the proper point with the least expenditure of oil, and thus
75 saves oil and prevents the picker sticking for the want of lubrication, and this, in turn, saves imperfections in the fabric being woven. A less powerful blow is required to
80 drive the shuttle across the loom, and there is less liability of the breaking of the picker sticks. I may also construct in the leather
85 of the picker a chamber, lined with metal, or unlined; to hold a heavy lubricant; and communicating with the picker-rod by an opening such as is above described.

What I claim is:—

90 A picker having an oil reservoir carried thereby, with an opening therefrom for feeding the oil directly to the picker rod, substantially as described.

In testimony whereof, I affix my signature
95 in presence of two witnesses.

WALTER OLIVER.

Witnesses:

G. L. GOETTLER,
E. W. BURD.