

No. 874,915.

PATENTED DEC. 24, 1907.

J. L. PERRY.

CARRIER FOR SANDPAPERING MACHINES.

APPLICATION FILED APR. 10, 1907.

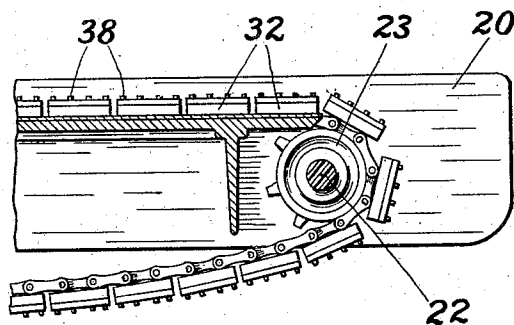


FIG. 1.

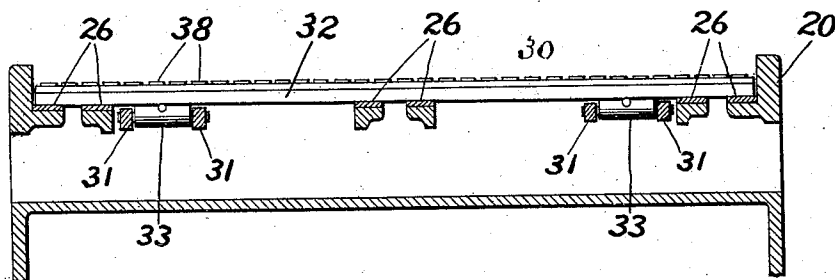


FIG. 2.

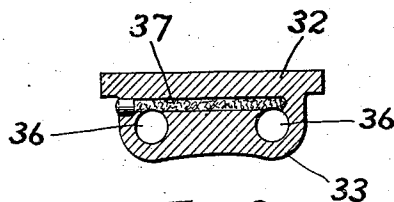


FIG. 3.

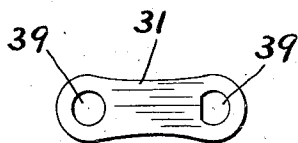


FIG. 4.

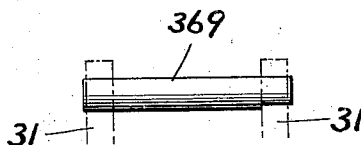


FIG. 5.

WITNESSES:

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CARRIER FOR SANDPAPERING-MACHINES.

No. 874,915.

Specification of Letters Patent.

Patented Dec. 24, 1907.

Original application filed September 24, 1906, Serial No. 336,059. Divided and this application filed April 10, 1907. Serial No. 367,301.

To all whom it may concern:

Be it known that I, JAMES L. PERRY, a citizen of the United States, residing at Smithville, county of Burlington, and State of New Jersey, have invented a new and useful Improvement in Carriers for Sandpapering-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

This application is a division of an application filed by me September 24th, 1906, Serial No. 336,059.

The invention has for its object to improve the construction of endless carriers such as are used on ordinary drum sanders and other machines requiring an endless bed feed, and consists of a carrier comprising transversely extending lugs provided with lags connected together at their ends by means of links and pins, all constructed, arranged and connected as hereinafter set forth.

In the drawings: Figure 1 is a longitudinal view, partly in section, of one end of the table, the driving shaft and sprocket wheel, and a part of the endless carrier. Fig. 2 is a transverse sectional view of the table and carrier. Fig. 3 is a detail longitudinal sectional view of one of the lugs on one of the lags of the carrier. Fig. 4 is a detail view of one of the links. Fig. 5 is a detail view of one of the pins and illustrating its mode of engagement with opposite links of a pin.

20 is the table having longitudinally extending ways 26, along which the endless carrier is adapted to travel, and 22 is the immediate driving shaft for the endless carrier.

The carrier 30 comprises transversely extending lags 32, provided on their top face with rubber cushions 38 and on their bottom face with lugs 33, links 31, and pins 369. The lags extend from one side to the other of the table and their bottom faces rest directly on, and in their travel slide upon, the three ways 26.

Secured to the underside of each lag are two lugs 33. These lugs extend between the middle way and the two outer ways respectively, in the upper reach of the carrier and close to the outer ways. Each two adjacent lugs of adjacent lags are connected together by means of pairs of links 31. Each lug is provided with two transversely extending orifices 36 through which extends pins 369. The pins 369 extend respectively into orifices

39 in the corresponding ends of two pairs of links, one pair of links being similarly connected with the adjacent lug of one of the next adjacent lags, and the other pair of links being similarly connected with the adjacent lug of the other next adjacent lag. The orifices in the lugs of the lags are circular to permit the pins 369 to turn freely therein. The pins, however, are held tight in the orifices of the links, to avoid wear. This is affected, in the particular construction shown, by making the orifices in the links of non-circular shape to prevent the pins turning therein, the inserted end of the pins having, of course, a corresponding sectional contour. It will be understood, however, that only the orifices at one end of a link need be non-circular, provided the orifice at the other end of its companion link is non-circular, and such a link is shown in Fig. 4.

The bearings between the pins and the lugs of the lags may be lubricated by the means shown in Fig. 3, comprising a longitudinally extending recess 37 in the lug intersecting the edges of the holes for the pins. The recess 37 may contain any suitable lubricating material.

The links of the carrier engage pairs of sprocket wheels at opposite ends of the table; one of said wheels 23 on the driving shaft 22 is shown in Fig. 1.

Having now fully described my invention, what I claim and desire to protect by Letters Patent is:

1. In a sand papering or analogous machine, the endless carrier comprising transverse lags, lugs on the inner face of each lag, a pair of circular orifices in each lug, a pin in each lug orifice, and links each having two orifices in which adjacent pins of two adjacent lugs extend, said pins turning freely in the lug orifices but held from turning in the link orifices.

2. In a sand papering or analogous machine, the endless carrier comprising transverse lags, lugs on the inner face of each lag, a pair of circular orifices in each lug, a pin in each lug orifice, and pairs of links, each pair having two orifices in which adjacent pins of two adjacent lugs extend, each pin being held from turning in one at least of the two corresponding orifices of a pair of links.

3. In a sand papering or analogous machine, the endless carrier comprising trans-

verse lugs, lugs on the inner face of each lag, a pair of circular orifices in each lug, a pin in each lug orifice, links connecting adjacent pins of adjacent lugs, the lugs having recesses intersecting their pin orifices, said recesses being adapted to receive a lubricating material.

4. In a sand papering or analogous machine, the endless carrier comprising transverse lags, lugs on the inner face of each lag, a pair of circular orifices in each lug, a pin in each lug orifice, and pairs of links, each pair having two orifices in which adjacent pins of

two adjacent lugs extend, one at least of the two corresponding orifices of a pair of links being non-circular, there being recesses in, and extending longitudinally of the lugs to receive a lubricating material, each recess intersecting both pin orifices.

In testimony of which invention, I have hereunto set my hand, at Philadelphia, on this 27th day of March, 1907.

JAMES L. PERRY.

Witnesses:

M. M. HAMILTON,

A. M. URIAN.