

1,048,388.

Patented Dec. 24, 1912.

2 SHEETS-SHEET 1.

FIG. 1

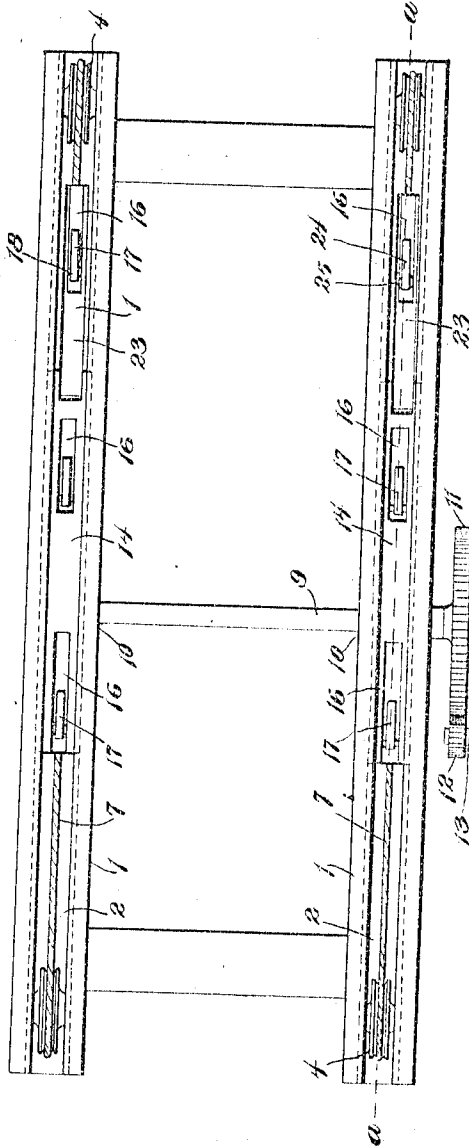
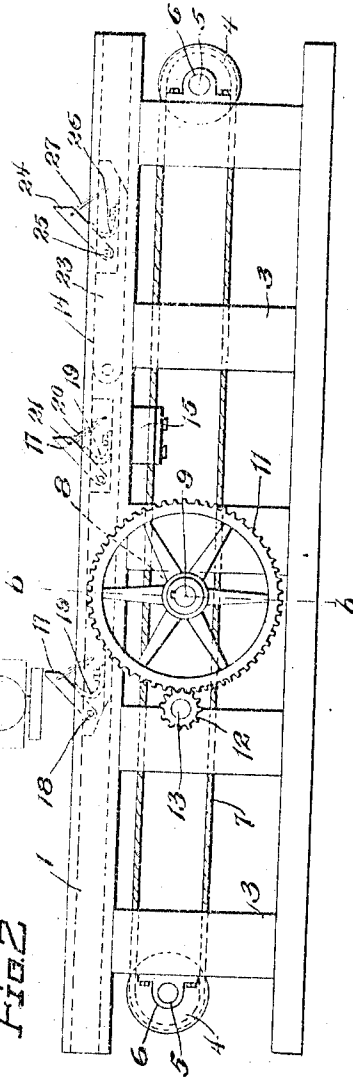


FIG. 2



Witnesses
W. H. Mulligan
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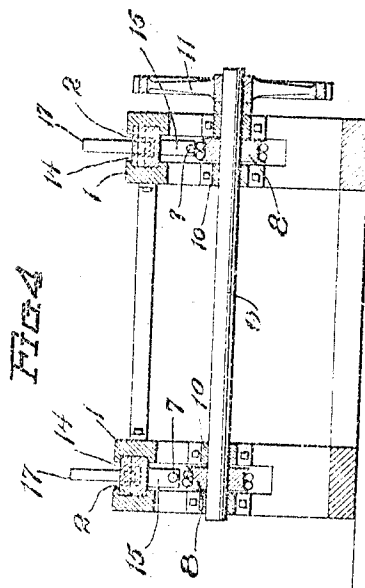
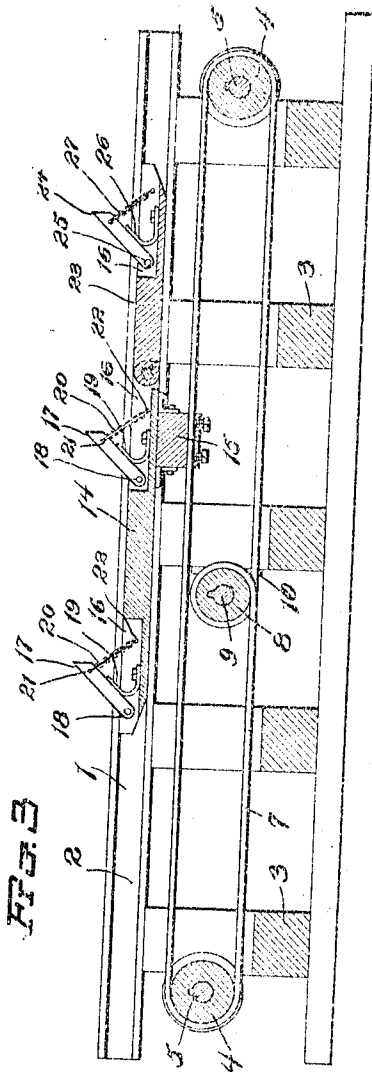
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J. W. BRACKEN.
LOG UNLOADER.
APPLICATION FILED MAR. 22, 1912.

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3 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN W. BRACKEN, OF PRINCETON, FLORIDA.

LOG-UNLOADER.

1,048,388.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed March 22, 1912. Serial No. 685,410.

To all whom it may concern:

Be it known that I, JOHN W. BRACKEN, a citizen of the United States, residing at Princeton, in the county of Dade and State of Florida, have invented new and useful Improvements in Log-Unloaders, of which the following is a specification.

This invention is an improved log unloader for use at saw mills and in other places, for the purpose of moving logs, my invention relating particularly to that class of log unloaders in which carriers, provided with dogs or log engaging devices are moved back and forth upon skids by means of endless cables connected to the carriers and operating mechanism for the endless cables, the invention consisting in the construction, combination and arrangement of devices hereinafter described and claimed.

One object of my invention is to effect improvements in the construction of the carriers which carry the dogs or log engaging devices.

Another object of the invention is to effect improvements in the construction of the dogs or log engaging devices.

In the accompanying drawings:—Figure 1 is a plan of a log unloader constructed in accordance with my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal sectional view of the same on the plane indicated by the line *a—b* of Fig. 1. Fig. 4 is a vertical transverse sectional view of the same on the plane indicated by the line *b—b* of Fig. 2.

The skids of my improved log unloader are indicated at 1. These skids are provided with skidways 2. The skids are supported by blocks or posts 3 and under the ends of the skids are sheaves 4, the axles 5 of which have their bearings 6 secured on the outer sides of the end posts or blocks. The usual endless cables 7, which operate below the skids are engaged with the sheaves and the lower leads of the endless cables are partly coiled on operating drums 8, the said drums being fixed on a shaft 9 which is mounted in bearings 10 and is provided at one end with a large spur gear 11. This spur gear is engaged by a pinion 12 on a reversible engine shaft 13, and, hence, when the engine shaft is driven in one direction or the other the gears and drums hereinbefore described cause the endless cables to move longitudinally along the skids according to the direction in which the engine shaft is driven.

In accordance with my invention, I provide carriers 14 which are arranged to move longitudinally in the skidways and each of which is provided on its under side with an anchor 15 whereby it is connected to the upper lead of one of the endless cables. Each carrier is provided with longitudinal vertical recesses 16 for the reception of dogs or log engaging devices 17, each of which is pivotally mounted at one end in one of the said recesses upon a pivot pin or other like device 18 which extends transversely through the carrier. Hence, one end of each dog may be raised and lowered. In connection with each dog, I employ a spring 19 for raising the same to an inclined position so that its free end may project above the upper side of the carrier and to limit the upward movement of the dogs or log engaging devices, I provide chains 20 each chain having one end secured to one of the dogs or log engaging devices, as at 21 and the other end secured as at 22 in one of the recesses of the carrier. It will be understood that the carriers are operated back and forth in the skidways by means of the endless cables and their connections hereinbefore described. When the carriers are moved in the opposite direction to that indicated by the arrow in Fig. 1, their dogs slide under the logs on the skids and when the carriers are moved in the direction indicated by the arrow in Fig. 1 their dogs, by engagement with the logs move the latter in that direction over the skids, as will be understood.

In further accordance with my invention, I provide each carrier at the front end thereof with a lifting member 22 which is pivotally connected thereto as at 23, the pivotal axis being horizontal so that each lifting member may be raised or lowered at its front end. Each lifting member is provided with a dog or log engaging device 24 identical in construction with the dogs or log engaging devices 17 hereinbefore described, pivotally mounted as at 25, normally raised by a spring 26 and controlled in vertical movement by a chain 27. At each rearward movement of the carriers the dogs or log engaging devices 24 of the lifting members of the carriers pass freely under the logs. At the forward movements of the carriers the dogs or log engaging devices move the logs forwardly as hereinbefore described and after a lower layer of logs have been deposited at the front side of the log unloader,

another layer of logs will be deposited on the lower layer by reason of the fact that the lifting members are raised at the conclusion of their forward strokes by the lower layer of logs, turn upwardly on their pivots or hinged axes 23 and, hence, cause their dogs or log engaging members 24 to elevate the logs carried by the lifting members and cause them to be deposited on the lower layer of logs.

While I have herein shown and described a preferred form of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts without departing from the spirit of my invention and within the scope of the appended claim.

I claim:—

In a log unloader of the class described, in combination with skids, carriers movable back and forth on the skids and having spring projected log engaging dogs, means to actuate the carriers, and lifting members pivotally connected to the front ends of the carriers and thereby arranged for vertical movement at their free ends, the said lifting members being also provided with spring projected log engaging devices.

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

JOHN W. BRACKEN.

Witnesses:

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CARMA G. H.