To all whom it may concern:

Be it known that I, RUDOLPH C. RASMUSSEN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Clamping Attachments for Nailing-Machines, of which the following is a specification.

This invention relates to nailing machinery and it has more particular reference to machines for nailing boxes, crates and the like.

The main object of this invention is to provide a clamping attachment for automatically positioning and holding the parts to be nailed together in proper relation, said clamping attachment operating in advance of the nail drivers.

Another object of this invention is to provide a clamping attachment which can be quickly applied to existing nailing machines without the disconnection or displacement of any of the operative or other parts.

A still further object is to provide a clamping attachment which is simple to construct, cheap to manufacture and install, and which is not liable to get out of working order.

With these and other objects in view as will be later on more apparent my invention consists essentially in the novel features of construction, combination and arrangement of parts hereinafter fully described and more specifically defined by the appended claim.

In the further disclosure of the invention reference is to be had to the accompanying sheet of explanatory drawings constituting a part of this specification, and in which like characters of reference designate the same or corresponding parts in all the views, and in which:

Figure 1—Is a fragmentary front elevation of part of a box nailing machine showing my improved clamping device attached thereto.

Figure 2—is an enlarged front elevation of the clamping attachment proper with parts broken away or in section to better disclose the underlying structure.

Figure 3—is an end elevation looking to the right hand of the preceding figure.

Figure 4—is a detail perspective view of the clamping member disconnected; and,

Figure 5—is a fragmentary perspective view of the clamping member operating element.

Referring to the drawings the numeral 10 designates part of the main frame of a box nailing machine upon the front whereof is mounted or formed the box support or table 11. Transversely of the main frame are the customary cross bars 12, 12, on which are mounted the nail chucks 13, 13 connected by chutes 14, 14, with the customary selectors 15, 15, the driving head being designated by the numeral 16, all of the foregoing mentioned parts being in accordance with the well known constructions and which form no part of my present invention.

The clamping attachment proper comprises a rectangular housing or casing 17, closed in on its rear and forward faces by removable plates 18, 18 conveniently held in place by screws 19, and this casing 17, is preferably securely clamped to the end of the frame supporting the cross bars 13, 12, by a Z-shaped strap or bracket 20, and screws 21, an adjustable leg or support 22, including upper and lower sections 23, 24, being provided beneath the casing 17. This adjustable leg or support 22, serves in use to stabilize the attachment and also to make provision for always supporting the same directly upon the table 11, when the latter is raised or lowered to accommodate different depths of boxes and to this end the upper and lower sections 23, 24, are slotted at 25, to receive bolts 26, whereby said parts 90 are rigidly clamped together in adjusted relation.

Slidably mounted in the aforesaid housing 17 is a block 27 provided at one of its upper sides with an inclined end 28, of a plunger member 30, provided with an upwardly extending portion or rod 31, adapted for adjustable connection by means of lock nuts 32, to the nail driving head 16. It is to be here noted that the plunger member 30 is shown as rectangular in cross section and that it operates through a correspondingly shaped aperture 33, in the crown of the housing 17, but it will be readily understood that any other appropriate section may be employed provided it is arranged to have an axial movement longitudinally only.

Projecting laterally from the aforesaid block 27, is a rod 34, provided at its outer end with a head 35, and said rod 34, and
block 27 are normally projected to the right hand in Fig. 2, by a compression spring 36, the latter in turn being housed in a recess 37, about the inner end of the rod; and said
spring abutting against the side wall of the casing 17, a hole 38, being provided for the passage of the rod 34 through the side wall.

In some instances I may employ a steadying bearing or hanger guide 39, adapted for
fixture where desired on the aforesaid cross bars 12, 12 by a screw 40, but in most in-
stances I find this bearing or guide unnecessary.

In use and assuming that a box 41.—Fig.
1, has been placed upon the table 11
to have the bottom or top 42, nailed there-
to said box is placed against the guide 43
and moved rearwardly to the requisite posi-
tion with the top or bottom to be nailed
thereon, whereupon the operator trips the
machine in the well known way, which
causes the driving head 16, to commence to
descend, which in turn through the con-
ected rod 31, projects the block 27, toward
the left hand in Fig. 2. This movement of
the block 27 moves the head 35, against the
right hand edge of the box bottom or top 42
in advance of the nailing operation and in-
sures said bottom or top being properly
aimed relative to the sides or ends of the
box prior to the actual nailing. On the re-
turn of the driving head 16, to its normal
position the spring 36 returns the block 27
to its normal or out of the way position.

While I have shown and described one
practical and the preferred embodiment of
my invention I wish it clearly understood
that slight changes may be made in the
form, disposition and combination of the
several parts to accommodate my inven-
tion to different types of nailing machines,
and it is desired to protect all such changes
and other arrangements as may reasonably
be construed as falling within the scope of
the appended claim.

Having described my invention, what I
claim as new and desire to secure by Let-
ters Patent, is:—

A clamping attachment for nailing ma-
chines comprising a rectangular casing
equipped for attachment to a stationary part
of the machine, a slidable block in said
housing and having an inclined face, said
slidable block having an element extending
through a wall of the casing and being
adapted for movement in opposition to
compression means for clamping the part
to be nailed in proper position, the said
compression means interposed between the
block and said wall of the casing and a de-
pending plunger adapted to be attached to
and carried by the driving head and having
an inclined portion at its lower part for co-
operation with the aforesaid inclined face
of the movable member to actuate the latter
in advance of an actual nailing operation.

In testimony whereof I affix my signature.

RUDOLPH C. RASMUSSEN.