

PROCESSING APPARATUS

ABSTRACT

Processing positional accuracy for processing a work 1 is improved
5 in a processing apparatus 10 that processes a work 1 while intermittently
halting the same without affecting the carrying of the work 1 at upstream
and downstream processing positions P_{n-1} , P_{n+1} .

The processing apparatus 10 intermittently halts and processes, at
a processing position P_n , a belt-like work 1 that is continuously carried
10 along a predetermined direction. The processing apparatus includes: a
processing section 20 that is provided at the processing position P_n and
that performs the processing on the work 1 while the work 1 is being halted;
an entering-side buffer mechanism 34a that is provided on an upstream
side of the processing section 20 in the predetermined direction and that
15 can accumulate the work 1 carried from upstream; an exit-side buffer
mechanism 34b that is provided on a downstream side of the processing
section 20 in the predetermined direction and that can accumulate the
work 1 having been processed and to be carried downstream; and a sending
section 31b that is provided between the entering-side buffer mechanism
20 34a and the processing section 20 and that sends out the work 1 accumulated
by the entering-side buffer mechanism 34a to the processing section 20.
By restricting the work 1, the sending section 31b halts the work 1 at
the processing position P_n , and performs simultaneously decrease of an
accumulation amount of work accumulated by the exit-side buffer mechanism
25 34b and increase of an accumulation amount of work accumulated by the
entering-side buffer mechanism 34a in such a manner as the decrease in
the accumulation amount of the exit-side buffer mechanism 34b and the
increase in the accumulation amount of the entering-side buffer mechanism
34a equal to one another. By canceling the restriction on the work 1,
30 the sending section 31b releases the halt of the work 1, and performs
simultaneously increase of the accumulation amount of the exit-side buffer
mechanism 34b and decrease of the accumulation amount of the entering-side
buffer mechanism 34a in such a manner as the increase in the accumulation
amount of the exit-side buffer mechanism 34b and the decrease in the
35 accumulation amount of the entering-side buffer mechanism 34a equal to

one another.

Figure 3.