

METHOD FOR RESTRICTING AN EXCESSIVE TENSION DEVELOPING
IN NARROW METALLIC BAND IN CUTTING SYSTEM FOR SLITTING
A METALLIC STRIP INTO THE METALLIC BANDS

ABSTRACT

In a method for restricting an excessive tension developing in a narrow metallic band or workpiece having a predetermined width in a cutting system for slitting a metallic strip into a plurality of said metallic bands through a slitter, wherein a metallic strip 11 having a predetermined width is unwound from an unwinding roll 12; the metallic strip 11 thus unwound is then slitted into a plurality of narrow metallic bands 21 by means of a slitter 22; the metallic bands 21 are wound on a plurality of corresponding winding rolls 28 provided with no brake mechanism; an inspection unit 16 is disposed in front of the slitter 22 to detect a fault in a surface of the metallic strip 11; and, the fault of the metallic strip 11 is then removed by bringing the metallic strip 11 to a sudden stop before the fault reaches the slitter 22 in the cutting system 10 for the metallic strip 11, wherein an excessive tension developing in the metallic band 21 upon sudden stop of the metallic strip 11 is reduced in magnitude to a safe value by de-energizing the drive motor (not shown) of the winding roll 28 upon occurrence of a sudden-stop signal to utilize a mechanical loss of the drive motor (not shown) of the winding roll 28 as a braking force.

(DRAWING SELECTION): Fig. 1