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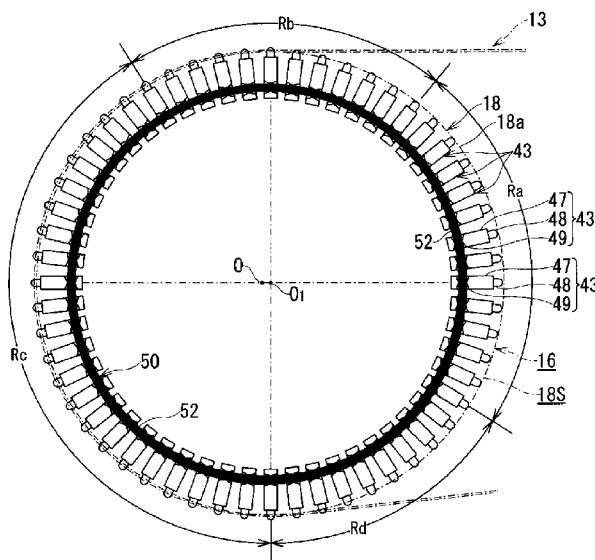
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(54) Title: PRINTING DEVICE USING ENDLESS BELT-SHAPED PRINTING PLATE, PRINTING METHOD THEREOF, AND METHOD FOR ATTACHING BELT-SHAPED PRINTING PLATE

(54) 発明の名称: 無端帯状印刷プレートを用いた印刷装置およびその印刷方法ならびに帯状印刷プレートの取付方法

[図7]



(57) Abstract: The present invention is a printing technique wherein an endless belt-shaped printing plate (13) is wound between the plate cylinder (18) of a printing cylinder (16) and a guide roller (19), and using the printing plate (13), a continuous form (12) sent between the printing cylinder (16) and an impression cylinder (17) is printed. The plate cylinder (18) of the printing cylinder (16) and an impression cylinder (17a) are each configured from a solid cylinder. In the plate cylinder (18), feed pins (43) are disposed in a row at the same pitch along the outer periphery of the cylinder at both ends in the axial direction, while the feed pins (43) are guided to an affixed cam ring (52), and are provided in a manner so as to be extendable/retractable in a manner so as to protrude from the cylinder surface (S) at a desired region of the plate cylinder (18). Pin feed holes (37) are provided in a row to the marginal zone (34) of the endless belt-shaped printing plate (13); the endless belt-shaped printing plate (13) is adhered from the plate surface side using adhesive tape in an abutting state of both ends of elongated resin relief printing plates meshing with each other; and in the endless belt-shaped printing plate (13), the pin feed holes (37) engage the feed pins (43) of the plate cylinder (18), and thereby the plate feed is guided. By means of the

present invention, it is possible to provide: a printing device that can precisely perform clear and clean printing having no printing unevenness even if relief printing is performed onto a continuous form using the endless belt-shaped printing plate (13) configured from elongated resin relief printing plates, and that can also print images having 175 to 300 lines by screen lines and minute microtext; a method for printing in the device; and a method for attaching the belt-shaped printing plate.

(57) 要約:

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