

受験番号 : 341PE024

問 1

[0005]

In this case, since the continuous type device constantly supplies ink, the device has the advantages of preventing nozzle clogging, ensuring stable operation over a long period of time, reducing contamination of a print head, and minimizing ink wastage. However, the device tends to be increased in size since it requires a system for circulating ink. On the other hand, the DOD type device can print higher definition figures than the continuous type device. Further, since the DOD device is configured to dispense ink for each individual tablet, there is no need for a large ink circulation system, and the DOD device itself becomes relatively small in size.

[0006]

However, since the DOD type device is configured to detect the flow of tablets and activate the print head, it may take time for performing data processing between the detection and ink injection, and if tablets flow continuously without interruption, the controller may enter a busy state and data processing may not be completed in time. There has been a problem in which if the data processing is not completed in time, the head cannot be activated even if the presence of tablets is detected, and the tablets flow without being subjected to the printing process, resulting in unprinted products.

[0007]

In addition, in the DOD type inkjet device, printing is usually only performed on the upper surface side of the tablets since ink jetting from the lower side to the upper side may cause a loss of printing accuracy due to the effect of gravity. That is, the DOD type device is rather difficult to perform printing processing on both sides of tablets, and despite the advantages of being able to be small in size, the DOD type device has been only adopted as a single-sided printing device.

問 2

[0017]

In accordance with the above embodiment, the loop antenna 10 in FIG. 1 has first and second line conductors 14, 16 which each have a length ($L_0 = 58.4 \text{ Hz}$) decided

in relation to a frequency band (1.8 GHz) of the linearly polarized wave in a first frequency band (1.57 GHz) and the second frequency band (1.8 GHz), formed on the dielectric substrate 12 having a dielectric constant of 4.4. Further, the first and second line conductors 14, 16 have a line width of 1.4 mm and are arranged on the dielectric substrate 12 so as to extend in parallel with each other at a predetermined distance (line gap = 0.4 mm) away from each other, both ends thereof being electrically connected with each other. Furthermore, the loop antenna 10 has a feeding part 28 composed of feeding points 24, 26 that are formed at both ends of a cut part which is obtained by cutting the first line conductor 14 at a position 22 away from an upper side end part 30 of the first line conductor 14 by a length ($L1 = 26.9$ mm) which is decided in relation to the first frequency band. In addition, the loop antenna 10 comprises a first detouring line conductor 18 that has a line gap of 0.4 mm and a line width of 1.4 mm, that is obtained by cutting another portion, in the first line conductor 14, in the vicinity ($L5 = 1.4$ mm) of the feeding part 28, and then connecting both ends of the cut part so as to be bridged, and that is arranged to extend by such a length ($L4 = 8.2$ mm) as to generate a $\pi/4$ phase delay in the laterally outer direction of the first line conductor 14, and a second detouring line conductor 20 that has a line gap of 0.4 mm and a line width of 1.4 mm, that is obtained by cutting the second line conductor 16 in the vicinity ($L5 = 1.4$ mm) of the feeding part 28, and then connecting both ends of the cut part so as to be bridged, and that is arranged to extend by such a length ($L4 = 8.2$ mm) as to generate a $\pi/4$ phase delay in the laterally outer direction of the second line conductor 16.

問 3

2. The learning support system according to claim 1, wherein
the question matching storage unit stores, as the answer content, a solution and/or a commentary with respect to the question content, and
the answer acquisition unit acquires, as an answer corresponding to the question received by the question reception unit, a solution and/or a commentary to the question received by the question reception unit, and/or a similar question to the question received by the question reception unit and a solution and/or a commentary to the similar question.
3. The learning support system according to claim 2, wherein
the question matching storage unit further stores a general commentary, and
the answer acquisition unit acquires, as an answer corresponding to the

question received by the question reception unit, a solution and/or a commentary to the question received by the question reception unit, a similar question to the question received by the question reception unit and a solution and/or a commentary to the similar question, and/or a general commentary relating to the question received by the question reception unit.

5. The learning support system according to claim 2, wherein
the search result has a lower accuracy in a case where a solution and/or a commentary to the question received by the question reception unit and a solution and/or a commentary to the similar question to the question received by the question reception unit are not found, than in a case where at least one of the solution and/or the commentary to the question received by the question reception unit and the solution and/or the commentary to the similar question to the question received by the question reception unit is found.

7. The learning support system according to any one of claims 1 to 6, wherein
the answer acquisition unit is configured to present the question received by the question reception unit to many unspecified answerers and to acquire answers from the many unspecified answerers.