Title (en)

Printer ink exchange apparatus

Title (de)

Druckfarbewechselvorrichtung

Title (fr)

Appareil pour échanger l'encre d'une machine à imprimer

Publication

EP 0739729 A2 19961030 (EN)

Application

EP 96104806 A 19960326

Priority

JP 10407995 A 19950427

Abstract (en)

Object: To provide a printer ink exchange apparatus which can 1 &cir& greatly shorten a wash liquid recovery time, 2 &cir& dissolve a dilution by the residual wash liquid in the ink circulation and supply passage so that a lowering of the ink viscosity (density) can be prevented and 3 &cir& dissolve a mixing of the ink of the previous order in the ink circulation and supply passage so that the ink for a new order is prevented from becoming turbid, and as a result, can enhance the productivity and the printing quality. Construction: At the time of washing, the selector valve 26 is switched to the direction of the ink tank 4, wash liquid is supplied from the wash liquid pipe 16 to the ink circulation and supply mechanism, same as in the conventional ink exchange apparatus, the ink circulation and supply mechanism is washed and the waste liquid (wash liquid after used for washing) is recovered into the waste recovery unit 25, then the ink tank 4 in which ink for a new order is contained and the ink supply pipe 8 of the ink circulation and supply mechanism are connected together, the selector valve 26 is switched to the direction of the waste liquid recovery unit 25, ink 3 is supplied for a certain time, and together with said ink 3, the residual waste liquid (residual wash liquid) is forcibly discharged into the waste liquid recovery unit 25. In this state, when a certain time passes, or when the color of returning liquid comes to a certain deepness, the selector valve 26 is switched to the direction of the ink tank 4, the ink 3 for a new order is circulated in the ink circulation and supply mechanism and the ink 3 is supplied between the inking rolls 1, 2 of the printing unit. <IMAGE>

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IPC 8 full level

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CPC (source: FP)

B41F 31/02 (2013.01); B41F 35/04 (2013.01); B41P 2235/30 (2013.01); B41P 2235/31 (2013.01)

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CN106079886A; EP0924074A1; EP2138307A1; ES2342526A1; FR2763536A1; CN115257152A; US11446922B2; US6561099B1; WO9965683A1

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