



US009409430B2

(12) **United States Patent**
Arimura

(10) **Patent No.:** **US 9,409,430 B2**

(45) **Date of Patent:** **Aug. 9, 2016**

(54) **INKJET PRINTER**

(56) **References Cited**

(71) Applicant: **RISO KAGAKU CORPORATION**,
Tokyo (JP)

(72) Inventor: **Eijiro Arimura**, Ibaraki (JP)

(73) Assignee: **RISO KAGAKU CORPORATION**,
Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/970,877**

(22) Filed: **Dec. 16, 2015**

(65) **Prior Publication Data**
US 2016/0185144 A1 Jun. 30, 2016

(30) **Foreign Application Priority Data**
Dec. 26, 2014 (JP) 2014-265089

(51) **Int. Cl.**
B41J 2/01 (2006.01)
B41J 29/377 (2006.01)
B41J 2/14 (2006.01)

(52) **U.S. Cl.**
CPC . **B41J 29/377** (2013.01); **B41J 2/14** (2013.01)

(58) **Field of Classification Search**
CPC B41J 29/377; B41J 2202/08; B41J 2002/16555; B41J 11/008; B41J 11/0085
See application file for complete search history.

U.S. PATENT DOCUMENTS

6,074,056 A *	6/2000	Kubo	B41J 13/226
			347/104
8,398,230 B2 *	3/2013	Matsushashi	B41J 2/01
			347/102
8,807,732 B2 *	8/2014	Onozawa	B41J 11/002
			347/101

FOREIGN PATENT DOCUMENTS

JP 2010-264752 11/2010

* cited by examiner

Primary Examiner — Lamson Nguyen

(74) *Attorney, Agent, or Firm* — Greenblum & Bernstein, P.L.C.

(57) **ABSTRACT**

A first chamber has a plurality of first ventilation holes of a same size arranged on extended lines of a plurality of head arrays respectively. A second chamber faces the first chamber across the plurality of head arrays and has a plurality of second ventilation holes of a same size facing the plurality of first ventilation holes. Cross-sectional areas of an internal air flow passage in the first chamber at positions of the first ventilation holes decrease with an increase in a distance of the first ventilation holes from a first end of the first chamber. Cross-sectional areas of an internal air flow passage in the second chamber at positions of the second ventilation holes decrease with an increase in a distance of the second ventilation holes from a second end of the second chamber on the same side of the first end.

1 Claim, 7 Drawing Sheets

