

IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF OREGON  
PORTLAND DIVISION

SEIKO EPSON CORPORATION,  
a Japan corporation; EPSON  
AMERICA, INC., a California  
corporation; and EPSON  
PORTLAND, INC., an Oregon  
corporation,

3:06-CV-477-BR

OPINION AND ORDER

Plaintiffs,

v.

GLORY SOUTH SOFTWARE  
MANUFACTURING, INC., a  
California corporation;  
BUTTERFLY PRINT IMAGE CORP.,  
LTD, a Hong Kong company;  
INK LAB (H.K.) CO., LTD,  
a Hong Kong company; NECTRON  
INTERNATIONAL, LTD, a Texas  
company; NINE STAR IMAGE CO.,  
LTD, a China company; NINE  
STAR TECHNOLOGY CO., LTD, a  
California company; TOWN  
SKY, INC., a California  
corporation; ZHUHAI GREE  
MAGNETO-ELECTRIC CO., LTD,  
a China company; MMC CONSUMABLES,

INC., a California company;  
TULLY IMAGING SUPPLIES, LTD,  
a Hong Kong company; INKJET  
WAREHOUSE.COM, INC., a Connecticut  
corporation; WELLINK TRADING CO.,  
LTD, a China company; RIBBON TREE  
(MACAO) TRADING CO., LTD, a China  
company; RIBBON TREE (USA), INC.,  
dba CANA-PACIFIC RIBBONS, INC.,  
a Washington company; APEX  
DISTRIBUTING, INC., a Washington  
company; DATAPRODUCTS USA, LLC, a  
California limited liability  
corporation; MASTER INK CO., LTD,  
a Hong Kong company; and ACUJET U.S.A.,  
INC., a California company,

**Defendants.**

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Image Co. Ltd.); Ninestar Technology  
Company, Ltd.; and Dataproducts USA LLC

**BROWN, Judge.**

This matter came before the Court on December 7, 2011, for a Supplemental *Markman* Hearing to construe the claim term "being compressingly contained" in the second limitation of Claim 83 and in dependent Claims 72 and 73 of U.S. Patent No. 5,515,837 ('377 Patent) issued to Plaintiffs (collectively referred to as Seiko Epson).<sup>1</sup>

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<sup>1</sup> On December 1, 2011, the United States Patent and Trademark Office notified Seiko Epson that it was reexamining whether Claims 83 and 84 of the '377 Patent are unpatentable based on prior art. That action does not have any immediate bearing on the pending matter.

## STANDARDS

Patent claim terms are generally given their ordinary and customary meaning. *Phillips v. AWH Corp.*, 415 F.3d 1303, 1312 (Fed. Cir. 2005)(*en banc*). “[T]he claims themselves provide substantial guidance as to the meaning of particular claim terms.” *Id.* at 1314. “A patent's specification is always highly relevant to the claim construction analysis.” *Id.* at 1315.

When interpreting the legally operative meaning of a disputed term, the court may consider “both intrinsic (e.g., the patent specification and file history) and extrinsic evidence,” (e.g., expert testimony and dictionary definitions). *Vitronics Corp. v. Conceptronic, Inc.*, 90 F.3d 1576, 1582 (Fed. Cir. 1996). See also *MBO Lab., Inc. v. Becton, Dickinson & Co.*, 474 F.3d 1323, 1329 (Fed. Cir. 2007).

Intrinsic evidence such as the specification “is always highly relevant to the claim construction analysis. Usually, it is dispositive; it is the single best guide to the meaning of a disputed term.” *Phillips v. AWH Corp.*, 415 F.3d at 1315.

Although extrinsic evidence “can shed useful light on the relevant art,” it is “less significant than the intrinsic record in determining ‘the legally operative meaning of claim language.’” *Id.* at 1317 (internal citations omitted).

## DISCUSSION

Claim 83 of the '377 Patent describes:

An ink-supply tank formed with an ink-supply delivery port having an opening for the passage of ink from said ink-supply tank;

An ink absorbing member formed from a porous material mounted within said tank, said ink absorbing member having a region facing said opening and being compressively contained by the ink-supply tank against the ink-supply delivery port so that at least the region of the ink absorbing member facing said opening is compressed relative to at least another region of the ink absorbing member; and

Said ink absorbing member substantially filling said ink-supply tank, said ink-supply tank including an inner wall surface having projections to provide a space between said ink absorbing member and said wall surface.

Seiko Epson Mem., Ex. B (emphasis added).

### **I. Ninestar's Proposed Construction**

Defendants (collectively referred to as "Ninestar") contend "being compressingly contained" should be construed to mean the ink-absorbing member<sup>2</sup> is (a) "*continuously subjected to forces* which distort it into a smaller shape in the ink cartridge and

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<sup>2</sup>In their memoranda, the parties occasionally refer to Seiko Epson's ink-absorbing member as a "sponge." The Court has previously construed the term ink-absorbing member to mean "a porous material that absorbs ink." In other words, it is not described specifically as a "sponge." Accordingly, the Court uses the original term ink-absorbing member in this Opinion and Order to avoid confusion.

(b) upon removal of these forces, the sponge returns spontaneously to its original shape." Emphasis added.

A. Continuously Subjected to Forces.

Ninestar argues the sponges in its ink cartridges, unlike Seiko Epson's ink-absorbing members, are not "compressingly contained" because they are already "semi-permanently deformed" when installed in the ink cartridge; *i.e.*, "the walls of the ink supply tank do not apply any compressive force at the time a cartridge is installed."

In contrast, Seiko Epson's ink-absorbing members are compressed by the tank lid, which, according to Ninestar "is largely responsible for compressing the [ink-absorbing member], in combination with the walls of the tank." In addition, the claim specification describing the compression of the [ink-absorbing member] near the ink-supply port "implies that such [compressing] forces also come from the floor and the walls of the tank."

B. Upon removal of these forces, the sponge returns spontaneously to its original shape.

Ninestar's expert, Wayne C. Hubbell, tested Seiko Epson's ink cartridge. When he removed the ink-absorbing member from the ink cartridge, he found it "resiliently returned to its original thickness," and, "despite the fact that each ink absorbing member was saturated with ink, the [ink-absorbing member] quickly

recovered from the applied short-term deformation."

## II. Seiko Epson's Proposed Construction

Seiko Epson contends "being compressively contained" means that the ink-absorbing member is reduced in size within the cartridge and, should be construed to mean the ink absorbing member is "*being contained [in the cartridge] in at least a partially compacted state.*" Emphasis added.

Seiko Epson asserts it is irrelevant that a compressive force is or is not continuously applied when the ink-absorbing member is installed in the ink cartridge because the patent specification only describes that "the thicker front portion [of the ink-absorbing member] is compressed by the tank lid when the [ink-absorbing member] is filled in the tank body." See Ex. B., '377 Patent at 8:68-9:2. Seiko Epson maintains that "[a]s long as the [ink-absorbing member] is maintained in a compacted state, it is [] irrelevant whether the force that initially compressed the sponge is continuously maintained over time." Moreover, the capillary-action effect (*i.e.*, the tendency of liquid to be drawn into small tubes) is "driven by the relative pores sizes of different regions of the sponge, not by whether the sponge is under constant pressure."

Seiko Epson point outs that dependent Claim 72 describes the ink-absorbing member as "substantially filling the ink-supply tank," dependent Claim 73 clarifies "at least a portion of the

ink absorbing member [is] being compressingly contained," and dependent Claim 74 further clarifies the "wall of said ink-supply tank facing said ink-supply delivery port is a cover means bearing on said ink absorbing member, when assembled to said ink supply tank to at least *apply a compressive force to effect compression of said ink absorbing member.*" '377 Patent at 18:15-35. Emphasis added.

According to Seiko Epson, these specifications describe that the compressive force is applied when the ink-absorbing member is first installed in order to create a "capillary action for moving ink through the ink absorbing member from an area where the pores of the ink absorbing member are on average larger to the area nearest the ink supply port where the pores on average are smaller as a result of the applied compression." '377 Patent at 5:30-49, 7:4-31.

### **III. Analysis**

#### **A. Ninestar's Proposed Construction.**

The Court rejects Ninestar's proposed construction because it reads into the claim term two limitations that are not asserted or described in the claim specification (*i.e.*, (1) the ink-absorbing member is *continuously* subjected to compression that distorts it while it is encased in the ink cartridge and



(2) the ink-absorbing member returns *spontaneously to its original shape* when it is removed from the ink cartridge.

The Court finds unpersuasive Ninestar's argument that Seiko Epson's use of the word "being" immediately before the term "compressingly contained" connotes that after the ink absorbing member is installed in the ink cartridge, the ink-absorbing member is subjected to ongoing, continuous forces that distort it.

The word "being" in its primary usage means "the state or quality of having existence." *See Am. Heritage Dictionary of the English Language* 163 5<sup>th</sup> ed. 2011). There is no question that "compression" is a "state of existence" of at least some parts of Seiko Epson's ink-absorbing member when it is first installed in Seiko Epson's ink cartridge. There is, however, nothing in the claim language or specification to support Ninestar's assertion that the claim language describes ongoing compression of the ink-absorbing member. As argued by Seiko Epson, the flow of ink from the ink-absorbing member to the ink-delivery port is the result of a capillary action resulting from the original compression that need not be the result of ongoing compression.

The Court also rejects Ninestar's construction because it imposes a limitation that the ink-absorbing member spontaneously returns to its original shape when removed from the ink

cartridge. That limitation is not found in either the claim language or the claim specification. Moreover, the Court agrees with Seiko Epson that such a limitation would be irrelevant to a functioning ink cartridge.

B. Seiko Epson's Proposed Construction.

The Court rejects in part Seiko Epson's construction that the ink-absorbing member is "being contained [in the cartridge] in at least a partially compacted state." Although the claim focuses on the compression of an ink-absorbing member in an ink cartridge, Seiko Epson proposes an instruction including the word "compacted" to describe the ink-absorbing member in the ink cartridge after it has been subjected to compression upon installation. "To compress" is defined to mean the same as "to press together" or "to make more compact by pressing." *Am. Heritage Dictionary* 379 (5<sup>th</sup> ed. 2011). Thus, the terms "compressed" and "compacted" have identical meanings in the context of Seiko Epson's ink cartridges. There is not any reason to import the term "compacted" in place of the term "compressed" to describe the ink-absorbing member's state when it is first placed into the ink cartridge.

**CONCLUSION**

For these reasons, the Court construes the term "being compressingly contained" in Claim 83 of Seiko Epson's '377 Patent to mean "being contained in at least a partially compressed state."

IT IS SO ORDERED

DATED this 16<sup>th</sup> day of December, 2011.

/s/ Anna J. Brown

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ANNA J. BROWN  
United states District Judge