UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

NIDEC CORPORATION AND AMERICAN HONDA MOTOR CO., INC.

Petitioners

v.

INTELLECTUAL VENTURES II LLC

Patent Owner

Case No. IPR2018-00598 U.S. Patent No. 7,067,952 Title: Stator Assembly Made from a Molded Web of Core Segments and Motor Using Same

DECLARATION OF DR. THOMAS R. BRINNER



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	B.	Detailed Analysis)
		1. <u>Limitation 10.a</u> : "A stator assembly, comprising:"30)



2.	Limitation 10.b: "a) a plurality of discrete stator segments each at least partially encased with a phase change material"
3.	<u>Limitation 10.c:</u> "wherein the phase change material also comprises a bridge between adjacent segments to link adjacent segments into a continuous strip"
4.	<u>Limitation 10.d:</u> "wherein the bridge is formed by interconnecting two mating sections formed from the phase change material; and"
5.	Limitation 10.e: "b) the linked stator segments being arranged and secured together to form the stator assembly."
6.	Limitation 14.a: "A combination of stator arc segments and a flexible carrier used to link said stator arc segments during a winding operation comprising:"
7.	Limitation 14.b: "a) a plurality of stator arc segments; and"
8.	<u>Limitation 14.c</u> : "b) a phase change material constituting said flexible carrier adhered to the stator arc segments which links said segments in a uniform and predetermined position with respect to one another;"
9.	Limitation 14.d: "wherein the flexible carrier links said segments by connecting two mating sections formed in said carrier."
_	nese Patent Application Publication H11-341717 to ushita ("Matsushita")44
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1.	<u>Limitation 1.a:</u> "A stator assembly, comprising:"45
2.	<u>Limitation 1.b:</u> "a) a plurality of discrete stator segments each at least partially encased with a phase change material."



C.

D.

3.	Limitation 1.c: "wherein the phase change material also comprises a bridge between adjacent segments to link adjacent segments into a continuous strip; and"
4.	Limitation 1.d: "b) the linked stator segments being arranged and secured together to form the stator assembly,"
5.	<u>Limitation 1.e:</u> "wherein the stator segments are held in a toroidal shape by a retaining member which comprises a metal band."
6.	Claim 2: "The stator assembly of claim 1 wherein the bridges produce such a continuous linkage between segments that the bridges may be used to orient and manipulate the segments during wire winding."
7.	<u>Claim 4:</u> "The stator assembly of claim 1 wherein the bridges between adjoining segments can be used to orient and position wire relative to the poles."
8.	Claim 6: "The stator assembly of claim 1 wherein the discrete stator segments are each made from a plurality of steel laminations."
9.	Claim 8: "A motor made from the stator assembly of claim 1."
10.	<u>Claim 9:</u> "The stator assembly of claim 1 wherein the bridge is formed by interconnecting two mating sections formed from the phase change material."
11.	Claim 12: "The stator assembly of claim 10 wherein the stator segments are held in a toroidal shape by a retaining member."
12.	Claim 13: "The stator assembly of claim 12 wherein retaining member comprises a metal band."
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E.

F.

1.	<u>Limitation 10.a:</u> "A stator assembly, comprising:"	.65	
2.	<u>Limitation 10.b:</u> "a) a plurality of discrete stator segments each at least partially encased with a phase change material"	.66	
3.	<u>Limitation 10.c:</u> "wherein the phase change material also comprises a bridge between adjacent segments to link adjacent segments into a continuous strip"	.70	
4.	<u>Limitation 10.d:</u> "wherein the bridge is formed by interconnecting two mating sections formed from the phase change material; and"	.72	
5.	<u>Limitation 10.e:</u> "b) the linked stator segments being arranged and secured together to form the stator assembly."	.74	
6.	Claim 12: "The stator assembly of claim 10 wherein the stator segments are held in a toroidal shape by a retaining member."	.74	
7.	<u>Limitation 14.a</u> "A combination of stator arc segments and a flexible carrier used to link said stator arc segments during a winding operation comprising:"	.76	
8.	<u>Limitation 14.b:</u> "a) a plurality of stator arc segments; and"	.77	
9.	<u>Limitation 14.c:</u> "b) a phase change material constituting said flexible carrier adhered to the stator arc segments which links said segments in a uniform and predetermined position with respect to one another;"		
10.	<u>Limitation 14.d:</u> "wherein the flexible carrier links said segments by connecting two mating sections formed in said carrier."	.81	
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G.

H.

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