UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD
JOHNS MANVILLE CORPORATION AND JOHNS MANVILLE, INC.
Petitioners
v.
KNAUF INSULATION, INC. AND KNAUF INSULATION SPRL
Patent Owners
Case No. IPR2018-00827

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 9,828,287



TABLE OF CONTENTS

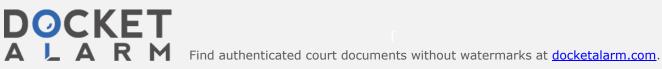
I.	MA	NDATORY NOTICES UNDER 37 C.F.R. §42.8(B)	.1
	A.	REAL PARTY IN INTEREST	.1
	B.	RELATED MATTERS	.1
	C.	PAYMENT OF FEES	.2
	D.	DESIGNATION OF LEAD COUNSEL	.2
	E.	SERVICE INFORMATION	.2
	F.	POWER OF ATTORNEY	.3
II.	REC	QUIREMENTS FOR INTER PARTES REVIEW	.3
	A.	GROUND FOR STANDING	.4
	В.	 IDENTIFICATION OF CHALLENGE. Claims Challenged. Prior Art. a. Srinivasan Is Prior Art Under Pre-AIA 35 U.S.C. §102(b). b. Worthington Is Prior Art Under pre-AIA 35 U.S.C. §102(b). c. Helbing Is Prior Art Under pre-AIA 35 U.S.C. §102(b) d. Gogek Is Prior Art Under pre-AIA 35 U.S.C. §102(b). 	.4 .4 .5
	C.	STATEMENT OF THE PRECISE RELIEF REQUESTED 1. Ground 1: Srinivasan in view of Worthington 2. Ground 2: Srinivasan in view of Gogek 3. Ground 3: Helbing in view of Worthington and Srinivasan. 4. Ground 4: Helbing in view of Gogek and Srinivasan 5. Summary Table 6. Overview of Challenged Claims	.5 .6 .6



III.	OV]	ERVIEW OF THE '287 PATENT7			
	A.	PRIORITY DATE OF THE '287 PATENT7			
	B.	SUMMARY OF THE '287 PATENT7			
	C.	PROSECUTION HISTORY8			
	D.	PERSON OF ORDINARY SKILL IN THE ART10			
	Е.	CLAIM CONSTRUCTION			
IV.	LEC	GAL STANDARDS14			
	A.	Obviousness14			
V.	FULL STATEMENT OF THE REASONS FOR THE RELIEF REQUESTED				
	A.	GROUND 1: CLAIMS 1-9 AND 16-17 ARE UNPATENTABLE AS OBVIOUS OVER SRINIVASAN IN VIEW OF WORTHINGTON			



	e.	Limitation [1.5] "wherein the percent by dry weight of the reducing sugar reactant with respect to the total weight of reactants ranges from about 73% to about
	f.	96%,"
	g.	Limitation [1.7] "iii) optionally, a corrosion inhibitor,"
	h.	Limitation [1.8] "wherein the fiberglass material comprises less than 99% by weight and more than 75%
	i.	by weight glass fibers,"
5.	Clai	m 2
	a.	Limitation [2.1] "The fiberglass material of claim 1, wherein the amine reactant is the ammonium salt of a polycarboxylic acid."
6.	Clai	m 3
	a.	Limitation [3.1] "The fiberglass material of claim 1, wherein the amine reactant is the ammonium salt of a manageria polycorboxylic said."
7.	Clai	monomeric polycarboxylic acid."
, ·	a.	Limitation [4.1] "The fiberglass material of claim 1, wherein the density is from about 0.75 lbs/ft³ to about 2.5 lbs/ft³."
8.	Clai	m 527
	a.	Limitation [5.1] "The fiberglass material of claim 1, wherein the density is from about 2.25 lbs/ft³ to about 4.25 lbs/ft³."
9.	Clai	m 628
	a.	Limitation [6.1] "The fiberglass material of claim 1, wherein the density is from about 0.4 lbs/ft³ to about 1.5 lbs/ft³."
10.	Clai	m 729
	a.	Limitation [7.1] "The fiberglass material of claim 1, wherein the density is from about 3.75 lbs/ft³ to about 5.2 lbs/ft³."
11	Clai	m 8 30



	a.	Limitation [8.1] "A thermal or acoustical fiberglass
		insulation material comprising:"30
	b.	Limitation [8.2] "(a) a collection of glass fibers; and" 30
	c.	Limitation [8.3] "(b) a binder disposed on the collection
		of glass fibers, the binder comprising"30
	d.	Limitation [8.4] "i) a mixture of Maillard reactants"30
	e.	Limitation [8.5] "wherein the percent by dry weight of
		a reducing sugar reactant with respect to the total
		weight of reactants ranges from about 73% to about
		96%,"31
	f.	Limitation [8.6] "ii) a silicon-containing coupling
		agent, and"31
	g.	Limitation [8.7] "iii) optionally, a corrosion
		inhibitor,"31
	h.	Limitation [8.8] "wherein the fiberglass material
		comprises less than 99% by weight and more than 75%
		by weight glass fibers,"31
	i.	Limitation [8.9] "and wherein the fiberglass material
		has a density in the range from about 0.4 lbs/ft ³ to about
		6 lbs/ft ³ ."
12.	Clai	m 932
	a.	Limitation [9.1] "A thermal or acoustical fiberglass
		insulation material comprising:"32
	b.	Limitation [9.2] "(a) a collection of glass fibers; and" 32
	c.	Limitation [9.3] "(b) a binder disposed on the collection
		of glass fibers, wherein the binder comprises"32
	d.	Limitation [9.4] "i) at least one reaction product of a
		reducing sugar reactant and a polycarboxylic acid
		ammonium salt reactant,"
	e.	Limitation [9.5] "wherein the percent by dry weight of
		the reducing sugar reactant with respect to the total
		weight of reactants ranges from about 73% to about
	C	96%,"
	f.	Limitation [9.6] "ii) a silicon-containing coupling
		agent, and"
	g.	Limitation [9.7] "iii) optionally, a corrosion
	1.	inhibitor,"
	h.	Limitation [9.8] "wherein the fiberglass material
		comprises less than 99% by weight and more than 75%
		by weight glass fibers,"33



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