EXHIBIT 1005

REDACTED PURSUANT TO PROPOSED PROTECTIVE ORDER FOR THE REASONS SPECIFIED IN THE CONCURRENTLY FILED MOTION TO SEAL

UNITED STATES PATENT AND TRADEMARK OFFICE ———— BEFORE THE PATENT TRIAL AND APPEAL BOARD —————

NORTH SAILS GROUP, LLC Petitioner

v.

TEAM NEW ZEALAND LIMITED
Patent Owner

- I, Per E. Andersson, hereby declare that:
- 1. I am employed by North Sails Group, LLC ("North Sails") as the General Manager at North Sails 3Di production facility in Minden, Nevada. I have access to the internal books and records as well as testing information of North Sails.
- 2. I completed my schooling with a focus in science in the Country of Sweden where I grew up. I also completed my mandatory military service in the Swedish Navy as a radio signal officer and boat captain. During summer school vacations I started my sail making career as an apprentice sail maker at The Rebell Sailmakers in Stockholm under the tuition of Johan Larsvall of KTH (Stockholm Institute of Technology).
- 3. After leaving Sweden in 1980, I landed a sailmaking job in Perth Western Australia and eventually ended up joining Hood Sailmakers ("Hood") in Auckland, New Zealand. At this time, the Hood brand was one of the top sailmaking brands in the world. Employment at Hood led me into professional sailing along with putting my sailmaking focus on sail design.
- 4. The Hood New Zealand employment eventually brought me to the Hood main office in Marblehead, Massachusetts, U.S. After sail design involvement with the first New Zealand America's Cup Challenge in Perth, Australia and several years of involvement with IOR Maxi Yachts as the lead designer, I eventually got recruited

by Sobstad Sails, which had its head office in the U.S.

- 5. While at Sobstad Sails, I was instrumental in the sail design effort for the 1992 America's Cup with the winning America³ (pronounced "America cubed")

 Team. I also did sail design for the winning boats in the 1993-1994 Whitbread Round the World Race, *Yamaha* and *Endeavour New Zealand*. As sailor and sail designer in the IOR Maxi class and IOR 50 class, I was a member of World Championship winning teams.
- 6. In 1996, I was part of the founding team of Quantum Sails, headquartered in Annapolis, Maryland U.S. In my position as the Vice President and lead sail designer, I spearheaded sail development for the company. During my 11 year tenure at Quantum Sails, we built the brand to become one of the strongest sail making brands in the U.S. and eventually in the world.
- 7. In 2007, North Sails recruited me to join them and within six months I became the U.S. design manager stationed in Annapolis, Maryland. In 2010, I was promoted to Vice President and International Design Manager. I also packed up my family and moved to Minden, Nevada, to be more involved in the development of the 3Di product and be closer to production in the most sophisticated sailmaking facility in the world.
 - 8. In 2017, I took on the role of general manager of the North Sails 3Di

manufacturing facility in Minden. Since my appointment in 2017, we have matured the 3Di product to where it has played a major role in the last two America's Cups in which Emirates Team New Zealand has dominated using North Sails' 3Di product. We have also dominated the Vendée Globe, single-handed, non-stop, non-assisted round-the-world sailing race with the 3Di product for the last three races.

- 9. A copy of my Curriculum Vitae is submitted herewith as EX1006.
- 10. I have read and understand U.S. Patent No. 12,110,089 to Collie ("Collie'089" EX1001). I have also read, understood, and agree with the Declaration of Daniel G. Neri (EX1003) also submitted in this proceeding, including Mr. Neri's definition of a person of ordinary skill in the art ("POSITA").
- 11. Because of my training as a sail designer, my participation as a sail designer in the development of the North Sails 3Di product, and my 14 years working in the factory where the 3Di sails are manufactured, I consider myself, and others consider me, an expert in all matters related to the design and manufacture of sails, the properties of the materials, and the application of the materials to create sail structures, including 3Di sails.
- 12. I understand the structural and design concepts the Collie'089 claims describe. The limitations of the Collie'089 claims are set forth in attached Table 3, starting with claim 1 and continuing sequentially through claim 23. Sails meeting the

limitations of Collie'089 were designed and manufactured by North Sails Nevada and North Sails New Zealand beginning in 2019, using North Sails exclusive 3Di manufacturing processes. Production of sails with the same design concepts, sold to the America's Cup syndicate known as Team New Zealand Limited (or "Team New Zealand") has been continuous from Q-2 2019 through to Q-3 2024. The same sail design concept was used by Team New Zealand in the 2024 America's Cup race in Barcelona.

Limited, entered into a formal written agreement for the sale of sails made by North Sails to Team New Zealand for the purpose of racing in the upcoming America's Cup race. Under this agreement, Team New Zealand would purchase sails every few months. EX1036 lists the headsails (typically identified by the letter J plus a number (1, 2, or 3) indicating the wind conditions the sails were designed for) and mainsails (identified by the letter M plus a number (1 or 2) indicating the wind conditions the sails were designed for) that were sold to Team New Zealand during this time period.

of those sails had shipping or invoice dates before the claimed December 17, 2020 priority date of Collie'089, including

were designed and shipped more than a year before the Collie'089 priority date,

- 14. As the general manager of North Sails' 3Di factory, I was present when the first sail designs pertaining to Collie'089 were discussed between Burns Fallow, representing North Sails New Zealand, and Team New Zealand, and members of the North Sails factory staff. Mr. Fallow was and is an employee of North Sails New Zealand and of Team New Zealand. The North Sails factory staff provided Mr. Fallow with information related to the modulus, tensile, and shrinkage properties of the tapes he was interested in using, and the staff contributed guidance regarding preparation of the structural files for production. The designs that were used were a natural application of earlier work done by Tom Whidden at North Sails, which are discussed in his declaration. (EX1007), which I have read, understood, and agree with.
- 15. The first sail order submitted by Team New Zealand that featured all of the characteristics described in the Collie'089 claims was received by the North Sails factory in February of 2019. The completed structures were then shipped from the factory in Minden, Nevada to North Sails New Zealand for the addition of finishing details and then to the Team New Zealand headquarters in Aukland, New Zealand on March 19, 2019. This sail was North Sails' order numbers

This sail was designed to be used on a Farrier 25 trimaran (see EX1036 entries for

16. Even though the Collie'089 claims seem to describe a sail made with panels cut from rolls of cloth (i.e., the "first material" or "second material"), today's high performance sails are all unitary composite structures like the 3Di sails produced by North Sails. A 3Di sail is typically made up of 18 plies (layers) of tape, each tape being either 150mm or 200mm wide. The tapes are comprised of fiber spread to the level of individual filaments which are suspended in a very light film of resin with the fibers running longitudinally in the direction of the length of the tapes. The tape types vary based on the type and amount of fiber that is used. The fiber types used in 3Di construction include

angles on each ply of the structure to address anticipated loads that the sails will experience during use, which are calculated by the sail design software provided to the designer by North Sails. The direction of the tapes dictates the direction of the fibers embedded in the tapes in the completed sail. Typically, the tapes in the different plies may run in many different directions. It should be noted that the tapes in a given ply often overlap to some extent, providing areas of higher tape density than would result from non-overlapping tapes.

17. To understand the construction of the 3Di sail made and sold to Team

New Zealand, including those sold to team New Zealand more than a year prior to the December 17, 2020 priority date claimed by Collie'089, the POSITA needs to examine the taping report for those sails. The taping report illustrates the plies of tape covering each area of the sail and each page of the taping report includes information regarding the type of material in the ply illustrated, as well as illustrating how the tapes are positioned in each ply. Attached Table 3 shows each of claims 1-7 and 9-23 of Collie'089 and illustrates how the sails sold to Team New Zealand by North Sails more than one year prior to the December 17, 2020 priority date of Collie'089 meet the limitations of the Collie'089 claims.

These plies can be ignored for the purpose of examining the relative tensile properties of the structure as it relates to Collie'089, as explained below.

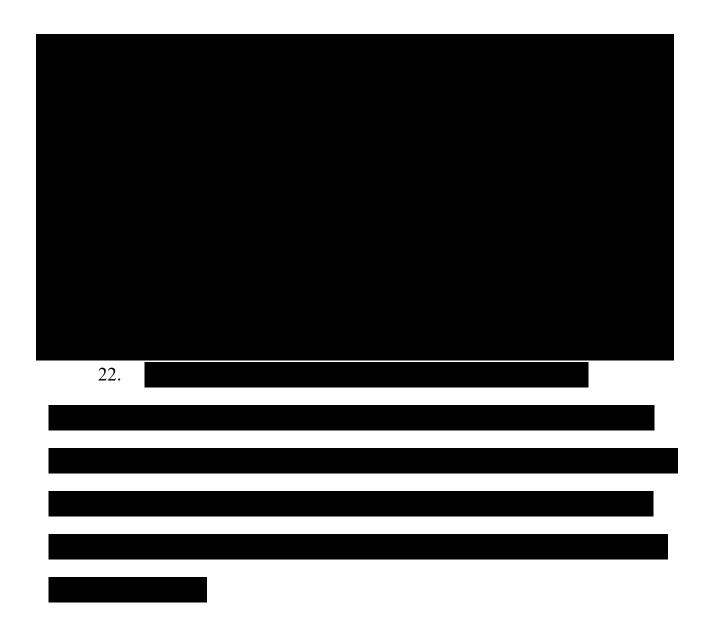
design as claim 1 of Collie'089, including a head, a tack, a luff, and a luff region that is more elastic than the remainder of the sail, in which the remainder of the sail has a stiffness that falls within the range of 2 to 20 times stiffer than the luff region. North Sails is used as a representative example of a mainsail (e.g., as in Collie'080 claim 2), and the taping report for this sail is found in EX1034.

is used as an example of a headsail (a jib; e.g., a	as in
Collie'089 claim 3), and the taping report for this jib is found in EX1035. Wh	ile I
will discuss the sails of order numbers	detail
below, the foregoing discussion applies equally to all of the sails in EX1036, v	vhich
were sold more than a year before the December 17, 2020 priority date of Coll	ie'089

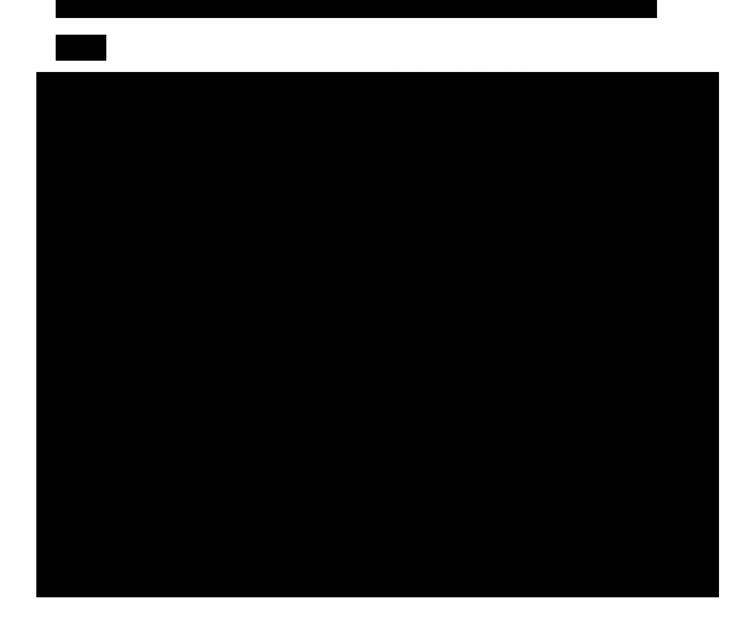


order number, which was a mainsail made for an AC75 class boat that raced in the America's Cup. This is the first of several mainsails manufactured by North Sails and sold to the Team New Zealand America's Cup syndicate beginning in June of 2019 (18 months prior to the claimed December 17, 2020 priority date based

n the Collie provisional patent application Serial No. 63/127,127), and are exemplary
f the other sails sold to Team New Zealand. All of the mainsails were twin-skin sails
with two identical sail skins (e.g., as in claim 22 of Collie'089) and are shown with
wo order numbers, one for each skin, in EX1036.
This is true for all of the sails in
X1036.
21.
This is true for all of the sails in EX1036, although the
pecifics of the reinforcements differ for the jibs relative to the mainsail.

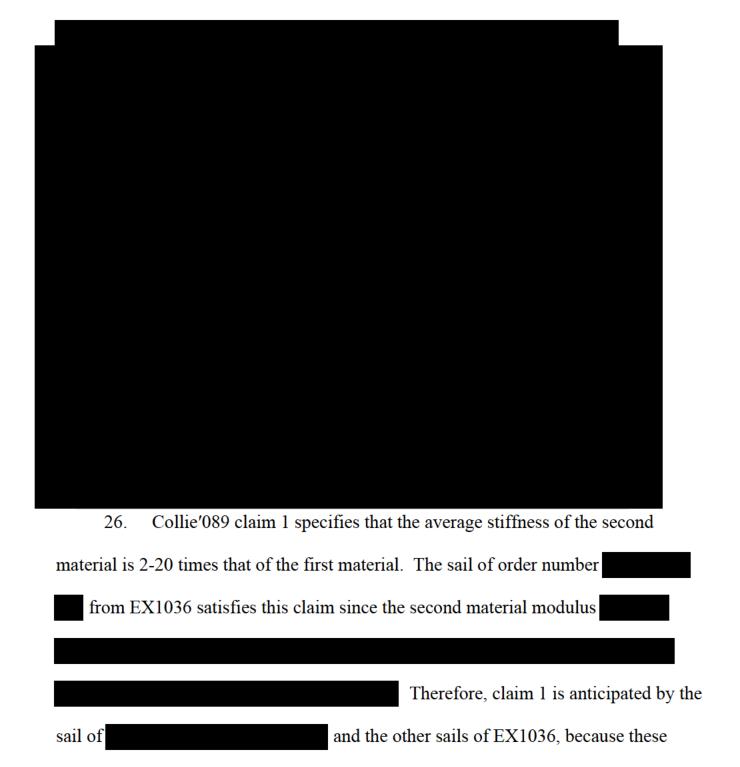


23. The remaining plies contain the tapes that make up the materials or regions described in Collie'089. The first material covers the luff region of the sail.



24. It is evident from this illustration that the first material extends towards the leech of the sail (to the right) more in the middle of the sail than in the tack

(bottom left) and head (top) areas, e.g., as in Collie'089 claim 12. The first material in
this sail extends approximately 25% to 30% of the width of the sail towards the leech,
e.g., as in Collie'089 claim 11 (about 10% to about 50%).
25. The so-called second material of Collie'089 claim 1, covering the
remainder of the sail, comprises tapes on ply numbers 6 and 12. Other plies of the
remainder of the sail are discussed in paragraphs 39 and 40 below, and comprise plies
7 and 11.



sails meet all of the limitations of Collie'089 claim 1.

illustrative examples. The anticipation of claim 1 by these sails is explained above.
and headsail as
will also explain further how each claim is anticipated, again primarily using mainsail
year prior to the December 17, 2020 priority date for the patent. For completeness, I
the sails sold by North Sails to Team New Zealand, listed in EX1036, more than one
Collie'089 claims 1-7 and 9-23, and illustrates how these claim limitations are met by
27. Table 3 attached to this Declaration lays out all of the limitations of

- 28. Claim 2 specifies that the sail in a mainsail, and is anticipated because several of the sails listed in EX1036 sold to Team New Zealand more than a year before the priority date are mainsails. See, for example,
- 29. Claim 3 specified that the sail is a headsail, and is anticipated by the headsails (jibs) listed in EX1036 sold to Team New Zealand more than a year before the priority date of Collie'089, because these headsails meet all the limitations of claim 1. See, for example,

 from EX1036. The illustration below shows plies 4 and 6 of headsail

 taken from the taping report of that sail found in EX1035.

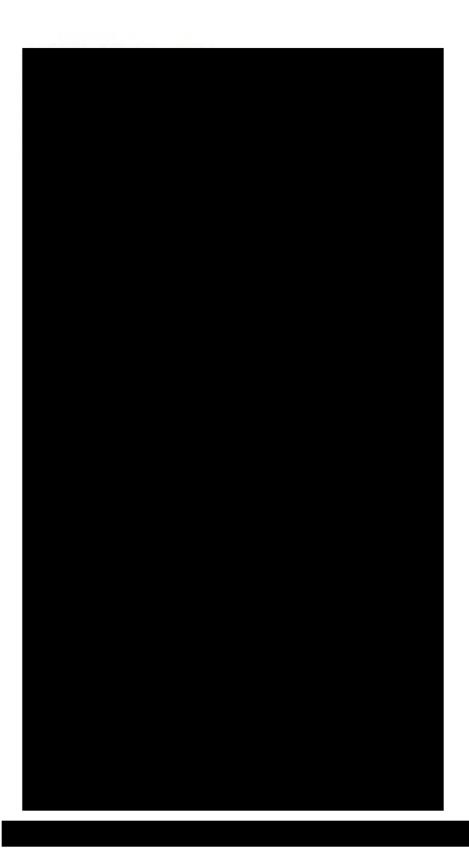


North Sails order number is a headsail. This order was manufactured and sold in October 2019. The layers shown above, captured from the taping report of that sail are illustrative of the same construction concepts, with the blue in ply 4 representing the region of the first material and the red in ply 6 representing the region of the second material. The other limitations of claim 1, such as the ratio of elasticity between the first and second materials, are met

30.	Claim 4 specifies a range of failure strain for the first material of 2.5% to
30%, and is	s anticipated because the tapes used for the luff region of
	, and the other sails in EX1036
31.	Claim 5 specifies a ratio of failure strain of the first material to the
second mat	erial of 2 to 10 times, and is anticipated by the sails of EX1036, including
	, because the failure strain of the tapes of the first
material (lu	ff region) is (the
reminder of	f the sail), based on the failure strain values discussed in paragraphs 24 and
25, above.	
32.	Claim 6 specifies an average Young's Modulus of about 1 to about 60
GPa for the	first material, and is anticipated by the sail of order number
	, because the sails sold to Team New Zealand had a first
material wi	th a Young's Modulus .
33.	Claim 7 specifies that the first material has an average elasticity that is at

least about 100% to about 2400% higher (i.e., 2 to 25 times greater) than an average

elasticity of the second material, and is anticipated by the sail of orders number
34. Claim 9 depends on claim 6 and specifies that there are sailcloth fibers in
the luff region of the sail which extend in an angle greater than or equal to about 15
degrees free from fibres parallel to the luff of the sail, and is anticipated by the sail of
and the other sails in EX1036, because base claim 6 is
anticipated (see paragraph 32, above), and the headsails sold to Team New Zealand
have sail fibers extending at greater than or equal to 15 degrees relative to the luff as
, as shown and discussed in paragraphs 23 and 24, above. In addition, headsail
includes a luff region meeting this requirement, as
shown in the illustration below from EX1035:



angle of about 15 degrees or greater from the luff.

35. Claim 10 depends on claim 1 and specifies that the first material extended	S
at least 50% to about 95% of a distance between the head and tack of the sail. Claim	l
10 is anticipated by the sail of and the other sails in	
EX1036, because claim 1 is anticipated, and as can be seen in the drawings above	
discussed in paragraphs 23-24 for this sail,	
, based on measurements	
made on the images in the taping report. With the reinforcement layers included, the	;
luff region of the distance between the head and the tack (see	
paragraphs 21-22, above). Similarly, the first material of discussed	
above for claim 3,	
36. Claim 11 depends on claim 1, and specifies that the first material extend	ls
up to about 10% to about 50% of a width of the sail towards a leech of the sail. Claim	m
11 is anticipated by the sail of and the other sails in	
EX1036, because claim 1 is anticipated and, as can be seen in the drawings in	
paragraphs 23-25	

37. Claim 12 depends on claim 9, and specifies that the first material extends
towards a leech of the sail to a greater extent in the middle of the sail relative to a
height of the sail compared to the luff regions towards the head and tack of the sail.
Claim 12 is anticipated ,
and the other sails of EX1036, because claim 9 is anticipated (see paragraph 34), and
as can be seen in the drawings discussed above in paragraphs 23-24, 29, and 34 for
these sails,

38. A third region is described by claim 13 (a third region having elasticity less than other regions, extending along at least a portion of the margin between the luff and remainder of the sail), claim 14 (third region extends from tack to head) and claim 15 (the third region comprises carbon).

39.	The third region material of sail

40. The tapes in these two plies, reproduced above, cover the third region material and the remainder of the sail. Red lines have been added to the image of ply 11 (above left) to indicate boundaries of the third material region.

Therefore, since claim 1 is anticipated, and the third region is less elastic than the
other regions of the sail, claim 13 is anticipated by the sail of
and the other sails of EX1036, which have the same design.
41. Claim 14 depends on claim 13 and specifies that the third region extends
from the head to the tack of the sail. Claim 14 is anticipated by the sail of
and the other sails of EX1036 which have the same design,
because claim 13 is anticipated, and
42. Claim 15 depends on claim 13, and specifies that the third region
comprises carbon. Claim 15 is anticipated because claim 13 is anticipated, and the
tapes used to make the third region the sail

Claim 16 depends on claim 1 and specifies that the first material 43. comprises a gradient of reducing elasticity in a direction from luff to leech, as defined by its: (i) failure strain, or (ii) average Young's Modulus, or (iii) both (i) and (ii)is and the other headsails in anticipated by the sail EX1036, because as shown in the images below, ply numbers 17 and 15 combine to fill in one layer of the first material of the luff region of the headsail of order number ONZ-3404-001. Ply 17 (orange, left) uses tape type 935120 which comprises 100% polyester fiber and ply 15 uses tape type 935159 which comprises 80% polyester and 20% aramid fibers. The failure strain of type 935120 is 6.9% and the failure strain of type 935159 is 5.9%. Lower failure strain means less elasticity. Thus, these two plies together constitute the gradient of reducing elasticity in the luff region in the direction from luff toward the leech, as required by claim 16. In addition, tape 935120 has a Young's Modulus of 8 GPa, while tape 935159 has a Young's Modulus of 13. Thus, the luff region of ONZ-3404-001 also has a gradient of reducing elasticity in the direction from luff to leech based on Young's Modulus. Consequently, claim 16 is anticipated by ONZ-3404-001.



44. Claim 17 depends on claim 16, and specifies that the first material comprises polyester. Claim 17 is anticipated by the headsails listed in EX1034, because claim 16 is anticipated,

45. Claim 18 depends on claim 16, and specifies that the first material of the luff region comprises polyester in combination with one or more of aramid and

UHMWPE. Claim 18 is anticipated	, because
claim 16 is anticipated,	
46. Claim 19 depends on claim 1, and specifies that a difference in	ı elasticity
is achieved by a lesser material thickness in the luff region compared with t	the
remainder of the sail. Claim 19 is anticipated by	
This can be seen in the computer ren	ndering
below of a slice from the luff to the leech (left to right) in the center of the	sail.

47. Claim 20 depends on claim 1, and specifies that an orientation of a
material in the luff region is different from an orientation of a material in the
remainder of the sail, such that the luff region has a higher degree of elasticity
compared to the remainder of the sail. Claim 20 is anticipated
, and the other sails of EX1036, because claim 1 is anticipated, and the
orientation of at least some tapes in the luff region differ from the orientation of some
of the tapes in the remainder of the sail.
It has already been
noted that the luff regions of the sails are more elastic than the remainders of the sails.

48. Claim 21 depends on claim 1, and specifies that the luff region does not comprise any carbon fibres oriented within 15 degrees of parallel to the luff, and

wherein the remainder of the sail does comprise carbon fibres oriented within 15
degrees of parallel to the luff.

- 49. Claim 22 depends on claim 1, and specifies that the sail is a twin-skin mainsail having two skins defining the sail, wherein each skin has a luff region extending along the luff, and wherein each 1uff region has a higher degree of elasticity compared to a remainder of the respective skin. Claim 22 is anticipated by the mainsails of EX1036, because claim 1 is anticipated, and all of these mainsails of EX1036 are twin-skin mainsails with identical skins that have luff regions that are more elastic than the remainder of the respective sail skins, as discussed above with respect to claim 1 (see, e.g., paragraphs 19-26 above).
- 50. Claim 23 is essentially the same as claim 1, except that it specifies that the relative stiffness of the remainder of the sail and the luff region is in a luff direction and increases the higher number for the stiffness ratio from 20 to 25. Claim

23 is anticipated by all of the sails in EX1036 for the same reasons given for claim 1 discussed above, and because the relative stiffness of the remainder of the sail compared to the luff region that I discussed with regard to claim 1 was stiffness in the direction of the luff.

- 51. It is my understanding that none of sails sold to Team New Zealand are covered by claim 8.
- 52. In summary, as shown in EX1036, North Sails produced and sold at least 23 sails that embodied the same concepts described above
- 53. An additional 13 sails listed in EX1036 have shipping or invoice dates between the claimed priority date and February 26, 2021. No significant changes were made in the designs or manufacture of the sails after the claimed priority date.
- 54. As can be understood from the discussion above, Collie'089, which has
 Team New Zealand as the applicant, was written to cover sails that were sold by North
 Sails to Team New Zealand more than a year before the Collie'089 provisional

application was filed. Even Team New Zealand believes that Collie'089 covers the sails sold by North Sails.

55. EX1038 is an email sent to Burns Fallow at his North Sails email account that is kept in the ordinary course of business.

I, PER E. ANDERSSON the undersigned declarant, further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18, United States Code.

Dated: June 24, 2025
Per E. Andersson

TABLE 3

Claim of Collie U.S. Pat. No. 12,110,089	Citations to Sails Sold by North Sails Group More than One Year Before the Earliest Claimed Priority Date of Collie'089
	As shown in EX1036 , North Sails Group more than a year before the claimed December 17, 2020 priority date of Collie'089.
	All of the sails were 3Di composite sails of substantially the same design, and North Sails' is used as the representative example of a mainsail, below.
	3Di sails are prepared by laying down layers (plies) of tapes on a sail mold. The tapes comprise fibers running the length of the tapes embedded in a resin.
	After all the tapes are laid down on the sail mold, the resulting mass of tapes is cured to produce a unitary sail made up of many layers of fibers embedded in a cured polymeric matrix. The fibers in the sails follow the patterns of the tapes that were used to make the sail.
	which shows the layout of tapes making up the sail, and the types of tapes used, is found in EX1034 .
	is used as a representative headsail (a jib), and the taping report for this sail is found in EX1035 .
	Discussions of stiffness and elasticity, below, refers to stiffness or elasticity in the direction of the luff.

TABLE 3

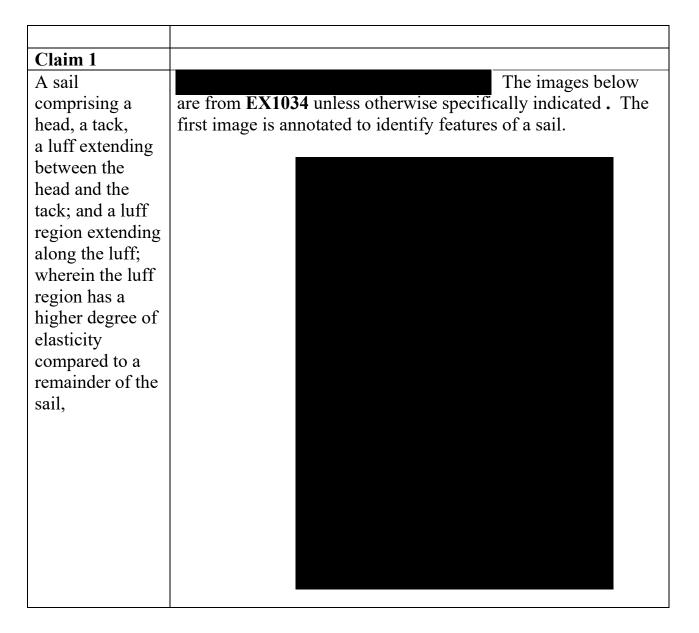


TABLE 3

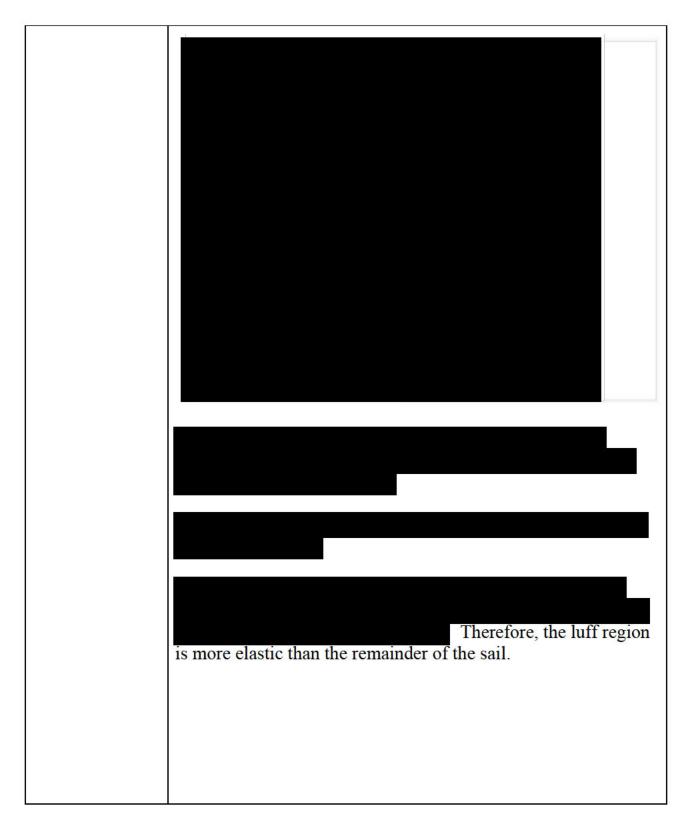


TABLE 3

wherein the luff region of the sail includes a first material	The luff region includes , the first material.
and a remainder of the sail includes at least a second material,	
	the second material, which covers the remainder of the sail.
wherein the first material and the second material are different, and	, the first material,
wherein an average stiffness of the second material is in a range of 2-20	

Table 3 Page 4

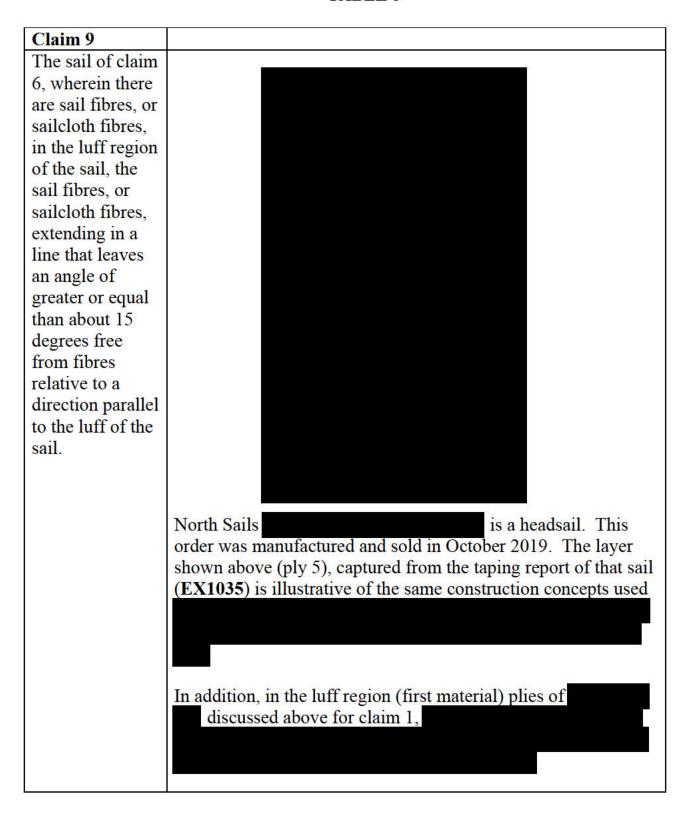
TABLE 3

times higher	
than an average	Therefore, claim 1 is anticipated.
stiffness of the	
first material.	
Claim 2	
The sail of claim	Order number is a mainsail.
1, wherein the	
sail is a	Therefore, claim 2 is anticipated.
mainsail.	-
Claim 3	
The sail of claim	
1, wherein the	
sail is a headsail.	
	The images above are from EX1035 showing two plies from
	North Sails order number , which is a headsail.
	This order was manufactured and . The
	layers shown above, captured from the taping report of that sail
	are illustrative of the same construction concepts used for

	# 15 miles 15 miles
	The other limitations of claim 1, such as the ratio of elasticity between the first and second materials, are met, Therefore, claim 3 is anticipated by the headsail of
Claim 4	
The sail of claim 1, wherein the first material has a failure strain of at least about 2.5% to about 30%.	Therefore, claim 4 is anticipated by
Claim 5	
The sail of claim 1, wherein the first material has a failure strain of at least about 2 to about 10 times the failure strain of the second material.	and, therefore, claim 5 is anticipated by
Claim 6	
The sail of claim 1, wherein the first material has	

an average	Order number	and order number
Young's		
Modulus of		
about 1 to about		
60 GPa.	Therefore, claim 6 is anticipat	ted by
		5"
	8	
Claim 7		
The sail of claim		_
1, wherein the	Order number	and order number
first material has	use	
an average		
elasticity that is		Elasticity is inversely related to
at least about	Young's modulus.	
100% to about		
2400% higher		
than an average		
elasticity of the		
second material.	Therefore, claim 7 is anticipat	ted by
		-
Claim 8		
The sail of claim		
1, wherein there		
is an absence of		
sail fibres, or	It is believed that the sails list	ed in EX1036 are not covered by
sailcloth fibres,	this claim.	•
that extend in a		
direction		
parallel, or at		
least		
substantially		
parallel, to the		
luff in the luff		
region of the		
sail.		

TABLE 3

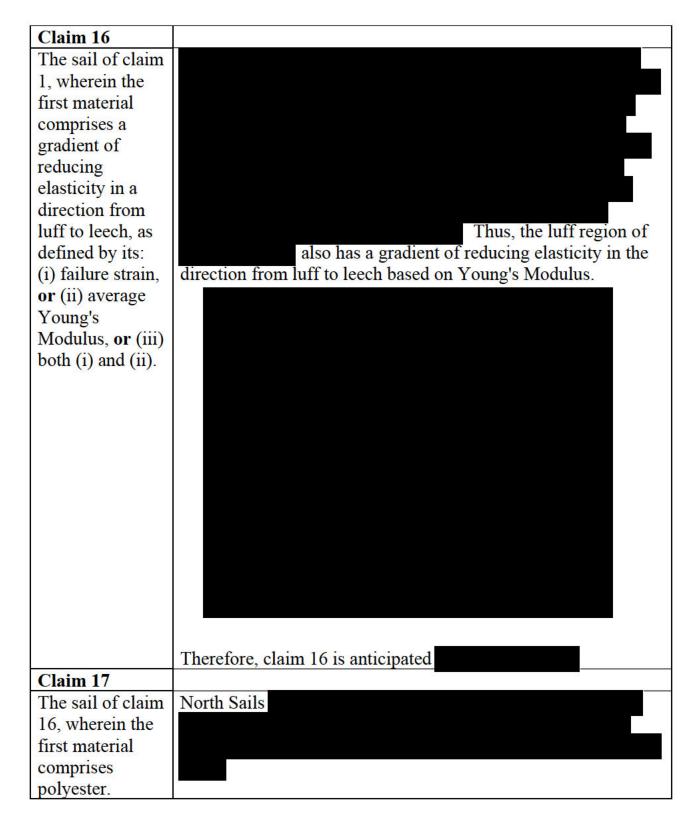


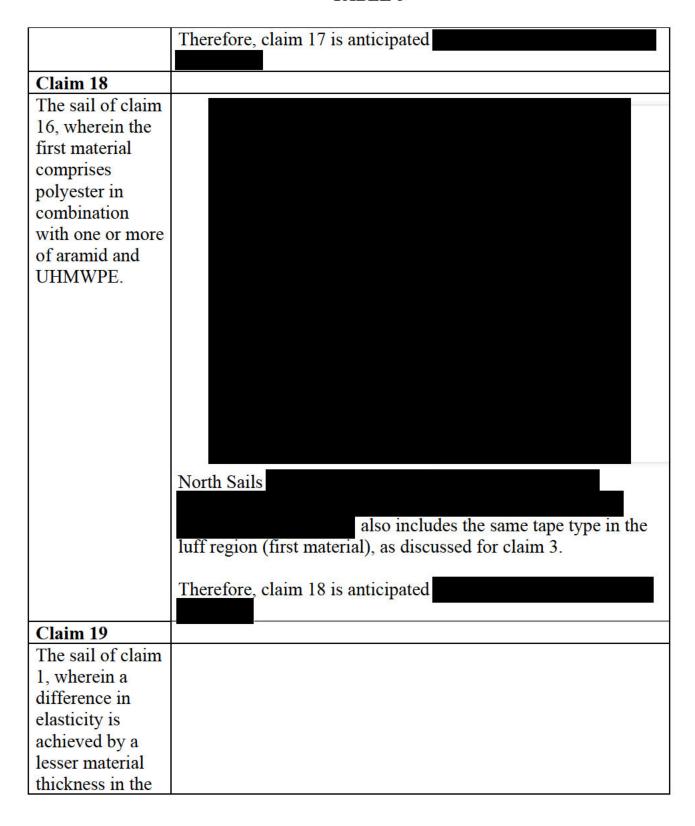
	Therefore, claim 9 is anticipated
Claim 10	
The sail of claim 1, wherein the first material extends at least 50% to about 95% of a distance between the head and tack of the sail.	The first material in orders number extend at least about 95% of the distance between the head and tack as shown in the images above for claim 1 and claim 3. Therefore, claim 10 is anticipated by
67.1.44	
Claim 11	
The sail of claim 1, wherein the first material extends up to about 10% to about 50% of a width of the sail towards a leech of the sail.	The first material in order number extends about 25% to 30% of a width of the sail towards the leech of the sail as shown above for claim 1. Similarly, the first material of (see claim 3) extends at least about 10% to 20% of the width of the sail toward the leech. Therefore, claim 11 is anticipated by
Claim 12	
The sail of claim 9, wherein the first material extends towards	The first materials in
a leech of the sail to a greater	towards the leech to a greater extent in the middle of the sail

extent in the	relative to the height of the sail as shown above for claim 1 and
middle of the	claim 3.
sail relative to a	
height of the sail	Therefore, claim 12 is anticipated
compared to the	
luff regions	
towards the head	
and tack of the	
sail.	
Claim 13	
The sail of claim	
1, wherein the	
sail includes a	
third region	
having an	
elasticity less	
than other	
regions of the	
sail, this third	
region extending	
along at least a	
portion of a	
margin of the	
luff region	
between the luff	
region and the	
remainder of the	
sail.	
	The area of the third material is highlighted
	with red outline on ply 11 for clarity. The stiffness (inverse of
	elasticity) is a function of the tape type and the number of layers
	of the tape.
	of the tape.

	elasticity of the three regions. Therefore, claim 13 is anticipated by
Claim 14	
The sail of claim 13, wherein the third region extends from the head to the tack of the sail.	The third region extends from the head to the tack on order number as shown above for claim 13. Therefore, claim 14 is anticipated
Claim 15	
The sail of claim 13, wherein the third region comprises carbon.	The tapes used for the third region on order number Therefore, claim 15 is anticipated

TABLE 3





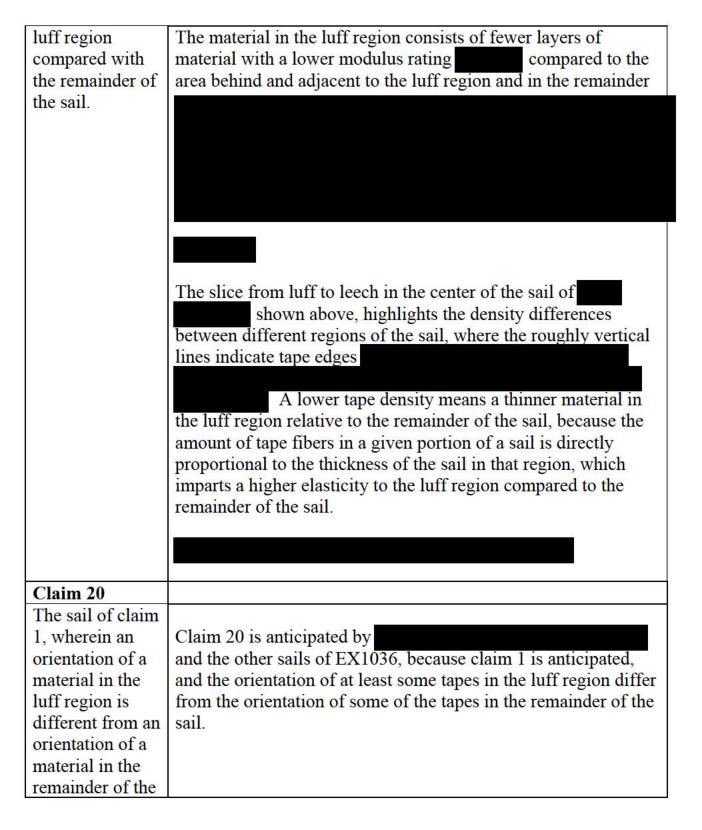


TABLE 3

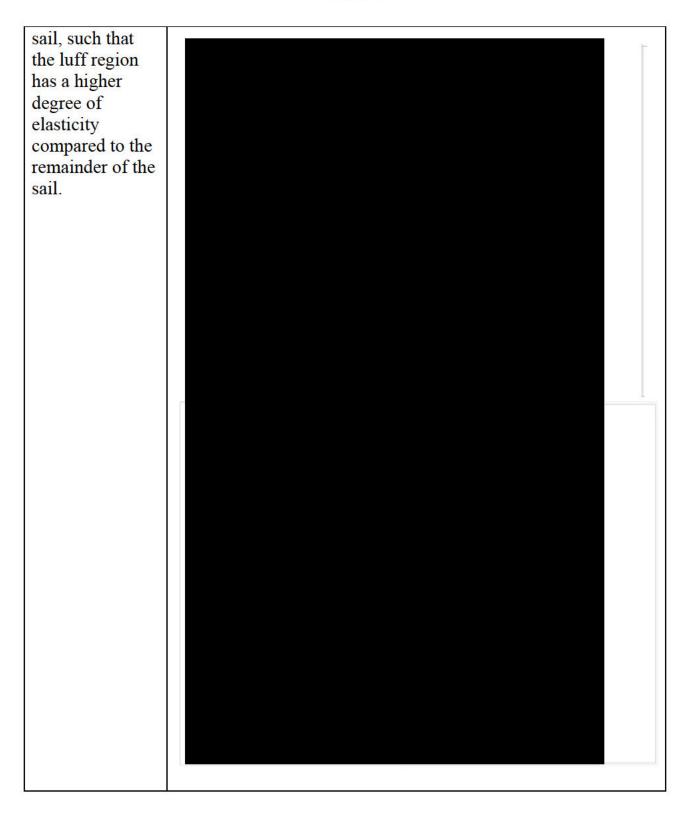
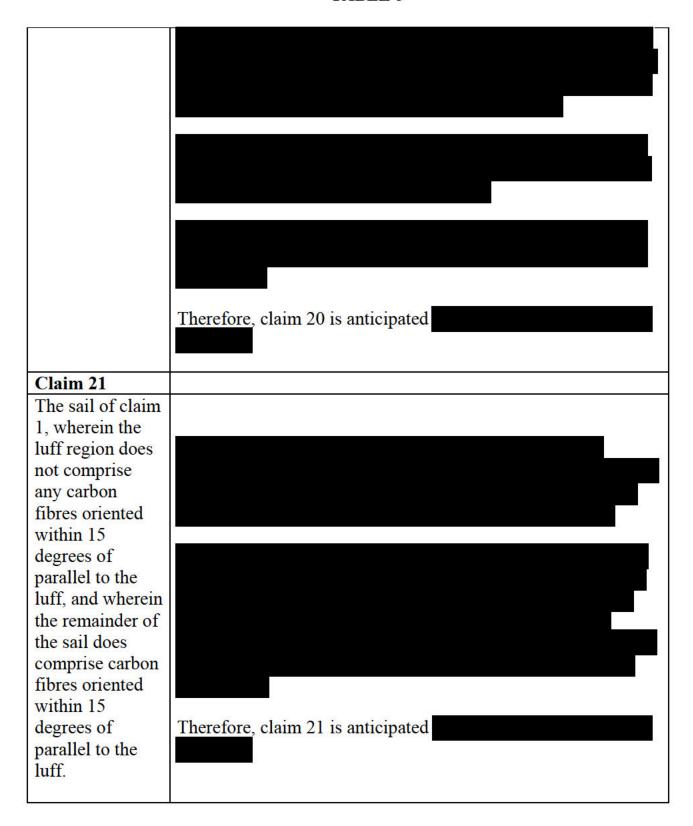


TABLE 3



Claim 22	
The sail of claim	
1, wherein the	
sail is a twin	
skin mainsail	North Sails order number is a twin skin
having two skins	mainsail. As stated for claim 1, the luff region is more elastic
defining the sail,	than the remainder of the sail,
wherein each	
skin has a luff	
region extending	Therefore, claim 22 is anticipated.
along the luff,	
and wherein	
each 1uff region	
has a higher	
degree of	
elasticity	
compared to a	
remainder of the	
respective skin.	
Claim 23	
A sail	
comprising a	
head, a tack, a	
luff extending	Claim 23 and Claim 1 are essentially the same and all the
between the	explanations for claim 1 apply here with the remainder of the
head and the	sail being
tack; and a luff	
region extending	
along the luff;	For the reasons claim 1 is anticipated above, claim 23 is
wherein the luff	anticipated.
region has a	
higher degree of	
elasticity	
compared to a	
remainder of the	
sail, wherein in a	

luff direction, a	
ratio of a	
stiffness of	
regions outside	
the luff region	
and the stiffness	
of the luff region	
is in a range of	
2-25 times	
greater.	