

1 IN THE HIGH COURT OF JUSTICE Claim No. HC-2015-004574
2 CHANCERY DIVISION
3 PATENTS COURT

The Rolls Building
7 Rolls Buildings
London EC4A 1NL
Fetter Lane
Friday, 27th January 2017

Before:
6 HIS HONOUR JUDGE HACON
7 (Sitting as a Judge of the High Court)

8 BETWEEN:

9 EDWARDS LIFESCIENCES LLC
(a company incorporated under the laws of the state of
10 Delaware) Claimant

11 - and -
12 BOSTON SCIENTIFIC SCIMED, INC.
(a company incorporated under the laws of the state of
13 Minnesota) Defendant

14 - and -
15 (1) EDWARDS LIFESCIENCES CORPORATION
(a company incorporated under the laws of the state of
16 Delaware) Third Party

17 (2) EDWARDS LIFESCIENCES AG
(also known as EDWARDS LIFESCIENCES SA)
(a company incorporated under the laws of Switzerland) Fourth Party

18 (3) EDWARDS LIFESCIENCES LIMITED Seventh Party

19 (Computer-aided transcript of the Stenograph Notes of
20 Marten Walsh Cherer Ltd., 1st Floor, Quality House,
6-9 Quality Court, Chancery Lane, London WC2A 1HP.
Telephone No: 020 7067 2900. Fax No: 020 7831 6864
e-mail: info@martenwalshcherer.com)

21 DR. PIERS ACLAND QC and MR. MILES COPELAND (instructed by Powell
22 Gilbert LLP) appeared for the Claimant.
23 MR. RICHARD MEADE QC and MS. KATHRYN PICKARD (instructed by
24 Olswang LLP) appeared for the Defendant.

25 PROCEEDINGS
DAY 7

1 PIERS ACLAND QC

2 shown in figure 16 are certainly double-walled -- two layers.

3 What this really goes to is the construction of the term
4 "disposed about the exterior of the anchor", which now,
5 although you have just been looking at the Sac Patent, is an
6 issue in the Bunched-up Patent. You want to look at the
7 bunched-up claims, claim 1. Sorry, what am I talking about?

8 That is completely off the page. The Sac Patent claims.

9 JUDGE HACON: We are back to the Sac Patent.

10 MR. ACLAND: Sorry. So it is the language at the end of claim 1,

11 "at least one sac (200) disposed about the exterior of the
12 anchor (30)." So this is what this is going to. If they are
13 double-walled the double walls both have to be outside the
14 scope of the anchor. We are talking about a sealing function,
15 whereas my learned friend's case is that in so far as
16 double-walled sacs are allowed, they can be both within and
17 without the anchor. Do you remember, fabric, metal, fabric?

18 JUDGE HACON: Yes. He says the sac presumably need not include
19 both walls.

20 MR. ACLAND: Well, I think in so far as he says a sac has two
21 walls, because of course his construction is, it does not have
22 to have necessarily two walls, it can just be a volume-filling
23 space.

24 JUDGE HACON: Well, we leave that. I do not want to take up your
25 time.

1 PIERS ACLAND QC

2 JUDGE HACON: Yes?

3 MR. ACLAND: Good morning. I have two memory sticks which contain
4 the electronic documents.

5 JUDGE HACON: Very helpful.

6 MR. ACLAND: I am sure you do not need them right now. My Lord,
7 I have an hour left and can I tell you how I propose to use
8 that hour.

9 JUDGE HACON: Yes, please.

10 MR. ACLAND: We were dealing with construction and what I am going
11 to do is to articulate as concisely as I can what our
12 contentions are on the two patents and what we see are the
13 deficiencies with Boston's construction.

14 Now, in those circumstances it may not be fruitful to
15 spend any more time debating whether figure 15 in the
16 Sac Patent discloses double layered sacs. I will let
17 Mr. Meade explain why they are necessarily single-walled. But
18 what is clear and if you have the -- I am looking at the
19 Sac Patent.

20 JUDGE HACON: Yes, do you want me to get that out?

21 MR. ACLAND: Yes. So it is page 53 is the first part of figure 15
22 and then the top of page 54 is the second. So figure 15, at
23 least as far as double-walled is concerned, they are the sac
24 that you see in figure 14, or the two sacs one sees in
25 figure 14 are certainly double-walled and the sacs that are

1 PIERS ACLAND QC

2 MR. ACLAND: Can I tell you, "disposed around the exterior of the
3 anchor", there are two submissions on that. First of all, as
4 a matter of ordinary English, what is "disposed about the
5 exterior"? It means that whatever is your sac needs to be
6 disposed exterior of the anchor. That is tremendously
7 straightforward. Then as a matter of purpose there is
8 a technical reason for having your sac, whatever it is,
9 disposed outside of the exterior because the sealing that one
10 is seeking to achieve is between the outside of the stent and
11 the annulus.

12 Now, Dr. Buller was cross-examined on this. The
13 references are given in our skeleton. But I can summarise the
14 point I was making which was, if you had a sac -- I will just
15 find you the references for that in our skeleton. It is
16 page 178. Do you see that? He says it is a sac. He would
17 understand the purpose to be to inflate or fill gaps between
18 the stent and the wall. He said it would therefore be nice if
19 it was situated between the anchor and the wall, otherwise
20 part of the inflation could be wasted with it blowing up on
21 the other side.

22 So, it is certainly not the case that one would not
23 achieve any space-filling properties with a sac which was both
24 inside and outside, but certainly it makes sense for it to be
25 outside in accordance with the ordinary English.

1 PIER'S ACLAND QC
 2 JUDGE HACON: Okay.
 3 MR. ACLAND: So that is "disposed about the exterior".
 4 Now, as far as the Bunched-up Patent is concerned, so if
 5 you can take claim 1 of that patent, but before we look at the
 6 claim, let us just remind ourselves of the figures that depict
 7 bunching-up. So it is figures 22-24 on page 47. What clearly
 8 emerges from what is described there or depicted there are
 9 three points which are relevant for what I am going to say in
 10 relation to construction.
 11 First of all the valve, 20 is right at the distal end of
 12 the stent, as indeed are all the valves which are depicted in
 13 the specification. Secondly, upon deployment, so we have two
 14 deployed configurations which are 23 and then 24 when it is
 15 within the native annulus, we see circumferential folds being
 16 introduced. And thirdly, and this is described in the
 17 specification, one can see it, that is achieved by
 18 foreshortening of the stent.
 19 So if we then go to the claims, and that is obviously
 20 only the context, but, as I said yesterday, there is
 21 a precious little to teach the skilled person what is meant by
 22 bunching-up or indeed sacs in this specification. Anyway,
 23 that is what is shown. Claim 1, so the first point is
 24 bunched up. What would "bunched up" be understood to mean?
 25 It is not a term of art and therefore we submit that the

1 PIER'S ACLAND QC
 2 folds getting into them.
 3 JUDGE HACON: Yes, I just want to be clear where it is going. You
 4 are saying if the folds are not close, that would fall outside
 5 the claim.
 6 MR. ACLAND: Yes. If you only had two folds, one right at the top
 7 and one at the bottom ----
 8 JUDGE HACON: That is what I am seeking to clarify. Are you
 9 talking about the number of folds? What do you mean by "close
 10 folds"?
 11 MR. ACLAND: What I mean by close folds is essentially what one
 12 sees in figure 24. Now, obviously that is only schematic,
 13 but ----
 14 JUDGE HACON: Just help me out a bit. Explain in regular language
 15 what you mean by close folds.
 16 MR. ACLAND: I mean like the sort of thing one sees in figure 23.
 17 JUDGE HACON: If it is not like that, it is outside the claim; is
 18 that what you mean?
 19 MR. ACLAND: No, it obviously admits of variation, and plainly
 20 that is only schematic, but if your Lordship puts it to me,
 21 I am not suggesting it has to look exactly like that to
 22 infringe.
 23 JUDGE HACON: I am not trying to be difficult, Mr. Acland, but you
 24 are placing emphasis on the words "close folds", so I am
 25 asking you what quite do you mean? You say, figure 23, but it

1 PIER'S ACLAND QC
 2 ordinary meaning is certainly a reasonable starting point for
 3 what "bunched up" would be understood to mean. That is where
 4 we turn to the dictionary. We see the dictionary, gathered
 5 together into close folds.
 6 The ordinary English is a starting point. One has to
 7 then turn to purpose. The purpose of the claimed inventioning
 8 in the Bunched-up Patent is to seal against an irregular
 9 interface, an interface whose precise topography not only
 10 varies from patient to patient, but even within a patient the
 11 number, the location and size of what I call seep gaps is
 12 unknown. Therefore, there is a technical reason that supports
 13 my construction, which is more than just gathered together,
 14 but gathered together into close folds, because with close
 15 folds one improves the prospects of sealing against an
 16 unpredictable topography. That is the technical reason. That
 17 supports -- it is entirely consistent with -- the natural
 18 ordinary English language. That is the first point.
 19 JUDGE HACON: Are you emphasising close folds or what?
 20 MR. ACLAND: Yes, I am.
 21 JUDGE HACON: Close?
 22 MR. ACLAND: Yes, two things: one is folds and the other is close,
 23 because of the inherent unpredictability of what you are
 24 seeping into. If your little seep gaps are very close
 25 together -- close folds -- you have a better chance of your

1 PIER'S ACLAND QC
 2 could vary, obviously that is schematic, so there could be
 3 variations. Just explain a little bit more. What do you mean
 4 by close folds? Do you mean by a minimum number or enough
 5 folds that there are folds adjacent to each other without
 6 gaps? What do you mean?
 7 MR. ACLAND: What I mean is whether one look at the device, look
 8 at the outer skirt, first of all, and identify folds. Those
 9 folds do not have to be directly adjacent like little spikes
 10 in cross-section.
 11 JUDGE HACON: Okay, but they have to be close, so what does that
 12 mean?
 13 MR. ACLAND: The folds, rather than having a fold and then
 14 a length of fabric, then another fold, they run together.
 15 Essentially, as one sees figure 23: they are a series of
 16 continual folds.
 17 JUDGE HACON: Right, so you mean between each fold there must be
 18 an acute angle I think is what you mean, so there is no space,
 19 there is no ----
 20 MR. ACLAND: Yes, they are not displaced from one another.
 21 JUDGE HACON: There is an acute angle between folds, so in that
 22 sense one is closely located to the next.
 23 MR. ACLAND: In that sense they are close, yes.
 24 JUDGE HACON: I see. That is what you mean by close.
 25 MR. ACLAND: It is what I mean.

1 PIER'S ACLAND QC
 2 JUDGE HACON: I think I understand, and if they are not close,
 3 they are outside the claim.
 4 MR. ACLAND: Yes, my Lord -- circumferential folds, okay? So we
 5 are now talking about the orientation of the folds.
 6 JUDGE HACON: Yes. Is that in the claim?
 7 MR. ACLAND: It is not in the claim, but I am going to submit to
 8 you why it would be necessarily understood to be imported into
 9 the claim. We see in figures 23 and 24 those horizontal folds
 10 -- I will call them. They are the natural consequence of
 11 foreshortening. What your Lordship is being asked to do is to
 12 adopt one or two constructions, my construction and Boston's
 13 construction. Boston's construction allows for vertical folds
 14 because, on Boston's construction, it is silent, it is blind
 15 to how those folds are configured. In other words, my Lord,
 16 their construction embraces folds that actually create leak
 17 paths.
 18 JUDGE HACON: You mean their construction embraces exclusively
 19 vertical folds.
 20 MR. ACLAND: No, not at all, includes vertical folds.
 21 JUDGE HACON: That is why I said embraces.
 22 MR. ACLAND: Yes, I see -- embraces, absolutely right.
 23 JUDGE HACON: "Includes", if you prefer. You say if their
 24 construction includes vertical folds that would be
 25 non-functional.

1 PIER'S ACLAND QC
 2 MR. ACLAND: In other words, the fabric that forms the seal must
 3 be found proximal to that distal end. That is how we read
 4 that claim, not as Boston reads that claim, because Boston's
 5 construction says this integer provides for the fabric seal to
 6 extend from the distal end of the valve in the distal
 7 direction and then in the proximal direction. In other words,
 8 if you look at figure 22, what they say is what is allowed is
 9 you can have a valve which is anywhere up inside the stent, so
 10 if the valve is higher up in the stent than is shown in figure
 11 22, or indeed anywhere else in the specification, what this
 12 language contemplates is that the fabric that forms the outer
 13 skirt can run distally round the bottom and then
 14 proximally ----
 15 JUDGE HACON: Presumably they say as long as it extends from the
 16 distal end proximally over the anchor, whatever else it does
 17 does not matter; is that what they say?
 18 MR. ACLAND: That just is not ----
 19 JUDGE HACON: Is that what they say? Mr. Meade will explain.
 20 I could conceive that as one possible construction.
 21 MR. ACLAND: In effect, the reason my learned friend is construing
 22 the claim in the way that he does, in other words, allowing
 23 the fabric to extend distally first, is because he is trying
 24 to catch the inner skirt in the S3 device. That is why he is
 25 doing that. Does that make sense?

1 PIER'S ACLAND QC
 2 MR. ACLAND: Correct.
 3 JUDGE HACON: So it cannot be right.
 4 MR. ACLAND: That is a reason to reject their construction. It
 5 creates a leak path. If it creates a leak path, it cannot be
 6 sealed.
 7 JUDGE HACON: You say on any view these folds must create a seal,
 8 so they must take a form which allows for that function to be
 9 performed.
 10 MR. ACLAND: Correct. The next issue arises, going back to
 11 claim 1, from the language -- do you see -- a fabric seal
 12 extending from the distal end of the valve, proximally over
 13 the anchor. Would you just read that to yourself again, my
 14 Lord, just as a matter of ordinary English as a starting
 15 point? The valve has a distal end. The fabric must extend
 16 from that distal end in the proximal direction. That is
 17 how ----
 18 JUDGE HACON: I am just making doubly sure I have it right. On
 19 figures 22, 23 and 24, the distal end is ----
 20 MR. ACLAND: It is the bottom end.
 21 JUDGE HACON: The top is the proximal end.
 22 MR. ACLAND: That is right. You can see in figure 22 the outer
 23 fabric is extending from the distal end of the valve in the
 24 proximal direction.
 25 JUDGE HACON: Yes.

1 PIER'S ACLAND QC
 2 JUDGE HACON: He is trying to catch the inner skirt.
 3 MR. ACLAND: That is what he is trying to do.
 4 JUDGE HACON: Why does he need to do that, because it has an outer
 5 skirt?
 6 MR. ACLAND: That is what he does, my Lord.
 7 JUDGE HACON: All right. If the claim covers a valve with the
 8 outer skirt, S3, that is enough.
 9 MR. ACLAND: No, because it has to extend ----
 10 JUDGE HACON: Why does he need to worry about the inner skirt?
 11 MR. ACLAND: Plainly, it has to extend from the distal end of the
 12 valve.
 13 JUDGE HACON: Understood.
 14 MR. ACLAND: That is why he relies on the inner skirt, because he
 15 says the outer fabric has to extend to the valve.
 16 JUDGE HACON: I see. Are you saying because it has to extend you
 17 have to follow it from its origin to where it goes and that
 18 includes going initially in the distal direction before it
 19 goes in the proximal direction?
 20 MR. ACLAND: Exactly. That is the fly in the ointment as far as
 21 my learned friend's construction is concerned. That is why he
 22 has to write in not just extending from the distal end in the
 23 proximal direction, but extend distally and then proximally.
 24 JUDGE HACON: The extension must be traced from origin to finish.
 25 Part of that extension, you say, is extending distally;

1 PIER'S ACLAND QC
 2 therefore, it falls outside the claim when we get to
 3 infringement.
 4 MR. ACLAND: Yes.
 5 JUDGE HACON: I see.
 6 MR. ACLAND: That is a way of looking at it. There is actually an
 7 easier way of looking at it, which is one looks at the
 8 position, the distal end of the valve.
 9 JUDGE HACON: I should not have put it in terms of infringement.
 10 You say the extension must only go in one direction.
 11 MR. ACLAND: Correct.
 12 JUDGE HACON: When you trace the extension from source to finish,
 13 if it does not only go in the proximal direction ----
 14 MR. ACLAND: You are out.
 15 JUDGE HACON: You are out, I understand.
 16 MR. ACLAND: Because you are only looking at what is on the
 17 outside of the stent. You look at what is outside the stent,
 18 and you say where does that start, where does that finish and
 19 you have to have that material extending proximally from
 20 the distal end of the valve.
 21 JUDGE HACON: Throughout the extension, if I can put it that way.
 22 MR. ACLAND: Throughout the exterior extension.
 23 JUDGE HACON: You cannot have a beginning bit that goes in the
 24 distal direction; is that right?
 25 MR. ACLAND: Correct. We not only submit that my learned friend

1 PIER'S ACLAND QC
 2 is bunched-up? Secondly, does the claim support
 3 circumferential folds? Then, lastly, extending from the
 4 distal end of the valve proximally.
 5 JUDGE HACON: "Does the claim support circumferential folds?"
 6 MR. ACLAND: Yes, I am sorry, I am talking about fabric folds of
 7 the seal.
 8 JUDGE HACON: Is that what you mean -- really? I thought you
 9 meant does the claim support ----
 10 MR. ACLAND: No, is it confined to circumferential folds.
 11 JUDGE HACON: Okay. When you said does the claim support, what do
 12 you mean? Is the claim limited to circumferential folds?
 13 MR. ACLAND: Yes.
 14 JUDGE HACON: All right. What is five?
 15 MR. ACLAND: That was 5. 4 was is it limited to circumferential
 16 folds. 5 was extending from the distal end of the valve
 17 proximally. In so far as the Sapien 3 device is concerned, we
 18 have summarised in paragraph 194 how those issues of
 19 construction give rise to non-infringement. I have just one
 20 additional point to make in relation to the Sapien 3. My
 21 clients have provided a PPD. They had proffered a witness,
 22 Mr. Joseph, to be cross-examined on that PPD and in the end he
 23 was not required for cross-examination. Nevertheless, what
 24 you will see in Boston's closing submissions is that they
 25 continue to rely upon the photographs of Dr Lutter's sample to

1 PIER'S ACLAND QC
 2 is wrong on the natural meaning of the English, but also wrong
 3 on purpose because the purpose of this bunching is to provide
 4 an external seal, a seal against the irregular annulus,
 5 outside the stent. Therefore, on his construction, in so far
 6 as it allows material that comes up inside, what is that
 7 material doing for the purposes of sealing that exterior
 8 surface? It serves no sealing function.
 9 JUDGE HACON: Do you mean the initial part of the extension?
 10 MR. ACLAND: Correct.
 11 JUDGE HACON: The distal direction part of the extension serves no
 12 sealing function.
 13 MR. ACLAND: Correct.
 14 JUDGE HACON: It is only the proximal part, as it goes up the
 15 outside, which can do that.
 16 MR. ACLAND: As far as the language of the claim is concerned ----
 17 JUDGE HACON: I understand, yes.
 18 MR. ACLAND: To summarise, the issues that we think you have to
 19 decide on construction are five-fold.
 20 JUDGE HACON: Are they listed here?
 21 MR. ACLAND: They are in our skeleton, but I just wanted to make
 22 it clear.
 23 JUDGE HACON: By all means.
 24 MR. ACLAND: First of all, twin-walled or double-walled; secondly,
 25 disposed about the exterior. On the Bunched-up Patent, what

1 PIER'S ACLAND QC
 2 establish infringement. The issue is whether the S3 -- Sapien
 3 3 -- as supplied by my clients infringes. We do not accept
 4 the provenance of Dr Lutter's device. We think it has been
 5 partly crimped, and certainly when Dr. Buller inspected it, it
 6 had a reduced diameter of something more like 20 mm. We have
 7 written to Boston's solicitors on the matter, but we have had
 8 no reply. What I would be inviting your Lordship to do is to
 9 -- and certainly as far as your judgment is concerned -- to
 10 consider the device as it is described and depicted in the
 11 PPD.
 12 JUDGE HACON: Okay.
 13 MR. ACLAND: Can I now do Cribier, first of all, and can you take
 14 two bundles: bundles A3 and C1. What I am going to do -- and
 15 this applies to both Cribier and also Bessler and Thornton,
 16 and I can tell you that the detail and the evidence references
 17 of what I am going to be suggesting to you are to be found in
 18 our closing submissions -- is articulate the simplicity of the
 19 case that arises as far as we are concerned on the three bits
 20 of prior art, the essential points. In so far as Cribier is
 21 concerned, if you turn to internal page 11, at the top of the
 22 page, the first three lines, "The invention will now be
 23 explained and another advantage and features will appear with
 24 reference to the accompanying schematical drawings." Do you
 25 see that?

1 PIERS ACLAND QC
 2 JUDGE HACON: Yes.
 3 MR. ACLAND: We then turn to figure 6. I am sure your Lordship is
 4 now familiar with figure 6d: we have a valve leaflet, or
 5 rather a valve structure. We have a stent, the black line,
 6 and we have an outer cover together with an inner cover. Now,
 7 in bundle C1, if you "turn to Professor Fisher's first report,
 8 which is behind tab 4 and turn to paragraph 58, you will see
 9 what he is explaining, and let us just read it together:
 10 "After my initial review of the Cribier Patent" -- so
 11 this is the first document he saw in the case -- "before I had
 12 seen or reviewed the Patents, Powell Gilbert asked me to
 13 comment on the sealing means described in the Cribier Patent.
 14 It was not surprised that the Cribier Patent proposed the
 15 abovementioned covers as a way of sealing to reduce leakage
 16 after implementation."
 17 Then can you read the whole of paragraph 59 to yourself?
 18 So you have taken 59 on board. You will recall
 19 Professor Fisher was cross-examined on this and it was
 20 suggested to him that Powell Gilbert had specifically asked
 21 him to look at figure 6d. He said absolutely not. The
 22 professor himself had drawn attention to figure 6d and the
 23 reason was because it had an external cover that he felt was
 24 important in the context of sealing. Can I give you that
 25 evidence reference? It is T5, page 821. Are you not writing

1 PIERS ACLAND QC
 2 your Lordship that the engineer when looking at figure 6d
 3 would implement the device so as to deliberately arrive at
 4 a taut external cover when the device was implanted.
 5 Not only does Cribier nowhere state that the external
 6 cover must be taut, but Boston's approach requires the skilled
 7 engineer to treat figure 6d as a design blueprint which it is
 8 plainly not. It is to use the language of the Cribier patent,
 9 one of a number of schematic drawings. So that is the first
 10 two points. There is much more to it than that because a taut
 11 external cover would also defeat the purpose which
 12 Professor Fisher identified, namely to enhance the
 13 space-filling provided by an excess of material. So it
 14 defeats the purpose. Yet further, my Lord, with a material
 15 such as Dacron, the engineer will have to find a way of
 16 overcoming the inevitable consequences of the changing
 17 geometry of the stent between its fully expanded and its
 18 deployed configuration. I think you heard that.
 19 Cribier, the patent, Cribier the man, used
 20 a balloon-expandable stent. When the balloon is deflated, the
 21 stent will recoil to some degree. In Cribier 2002, the
 22 circulation paper, the reduction in diameter was about 8.5%.
 23 We have given the reference in our skeleton. With the recoil
 24 obviously the circumference gets smaller. They will
 25 inevitably introduce some excess, but it is not just recoil

1 PIERS ACLAND QC
 2 it down, my Lord.
 3 JUDGE HACON: It is on the transcript.
 4 MR. ACLAND: It is 821, line 16 to 822, line 24. Furthermore, the
 5 attractiveness of figure 6d had been apparent to the professor
 6 from the outset from his initial review of Cribier. That is
 7 T5, 827, lines 22 to 828, line 4. So he, like the skilled
 8 person, had focused on figure 6d because it offered attractive
 9 sealing solutions or an attractive sealing function. In his
 10 report then, if you turn on to paragraph 71 -- I am looking at
 11 71 and 72 -- this follows. As far as the valvular tissue is
 12 concerned, he considers that the engineer would use
 13 pericardium, and as far as the external cover is concerned he
 14 would use PET (Dacron). The reason for using Dacron is the
 15 reason he uses there and if you go back to paragraph 44 it is
 16 because of the common-general-knowledge use of PET for other
 17 applications in this field and he refers to vascular grafts.
 18 Do you see 44?
 19 JUDGE HACON: Yes.
 20 MR. ACLAND: And he said in cross-examination that he would have
 21 come to that view or rather the skilled person would have
 22 formed the same view as he did because the same combination of
 23 pericardium plus Dacron had been used in surgical heart
 24 valves. That is T5, 834, line 14 to 835, line 7.
 25 In order to get round Cribier, Boston has to convince

1 PIERS ACLAND QC
 2 because the stent disclosed in the Cribier patent
 3 foreshortens, as would the stent described in Cribier 2002,
 4 although to a lesser extent. As the stent expands against the
 5 lumen, it shortens in height.
 6 Implications of foreshortening in relation to excess
 7 material can be seen in Professor Fisher's first report,
 8 paragraphs 67 and 68, so that is page 17. These diagrams are
 9 just illustrating a principle.
 10 JUDGE HACON: Yes, this is not in dispute, is it, that if you
 11 foreshorten you will get some excess fabric?
 12 MR. ACLAND: If you take any of those cells in the top figure and
 13 imagine the fabric that is taut across that, when the device
 14 is crimped, the sides come together, the top goes out. And if
 15 you read on to paragraph 80 of the professor's evidence:
 16 "... as can be seen by comparing the structures of figures 4
 17 and 5 above the intersection points of struts either move
 18 towards each other (in the horizontal direction) or away from
 19 each other ... It would therefore be logical to incorporate
 20 excess material in the expanded configuration to accommodate
 21 the increase in height ..." And then 81: "Incorporating such
 22 excess material would form circumferentially oriented folds of
 23 material in the expanded configuration."
 24 As I say, in order for Boston to get round that
 25 evidence, they have to establish that what the professor

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