

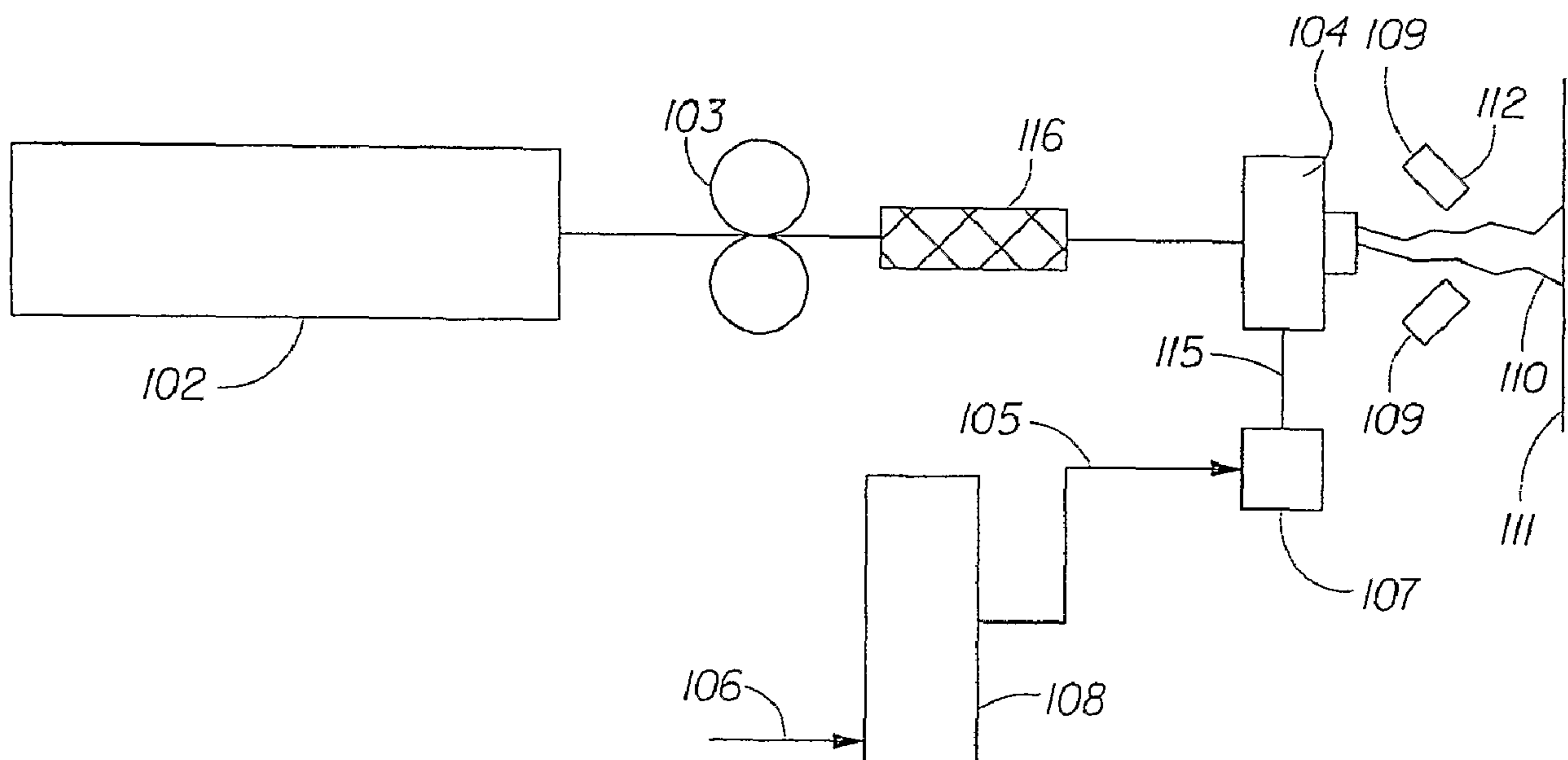


(86) Date de dépôt PCT/PCT Filing Date: 2005/12/20
(87) Date publication PCT/PCT Publication Date: 2006/06/29
(45) Date de délivrance/Issue Date: 2010/12/14
(85) Entrée phase nationale/National Entry: 2007/06/19
(86) N° demande PCT/PCT Application No.: US 2005/046284
(87) N° publication PCT/PCT Publication No.: 2006/069120
(30) Priorités/Priorities: 2004/12/20 (US11/018,746);
2005/12/07 (US11/295,939)

(51) Cl.Int./Int.Cl. *D01F 9/00* (2006.01),
D01F 6/50 (2006.01)
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(54) Titre : STRUCTURES POLYMERIQUES COMPORTANT UN POLYMERE HYDROXYLE ET PROCEDE DE
FABRICATION DE CES STRUCTURES

(54) Title: POLYMERIC STRUCTURES COMPRISING AN HYDROXYL POLYMER AND PROCESSES FOR MAKING
SAME



(57) Abrégé/Abstract:

A polymeric structure in the form of a fiber, wherein the fiber comprises an unsubstituted polymer and wherein the fiber exhibits an apparent peak wet tensile stress greater than 0.2 Mpa, fibrous structures comprising such polymeric structures and processes for making such polymeric structures and/or fibrous structures are provided.



In another example of the present invention, a fiber comprising an association agent wherein the fiber exhibits an average fiber diameter of less than 10 μm is provided.

In another example of the present invention, a web comprising a polymeric structure according to the present invention is provided.

5 In still another example of the present invention, a fibrous structure comprising one or more non-naturally occurring fibers comprising a hydroxyl polymer and an association agent.

In yet another example of the present invention, a process for making a polymeric structure comprising an association agent, wherein the process comprises the step of
10 polymer processing a hydroxyl polymer-containing composition comprising an association agent into a polymeric structure comprising an association agent, is provided.

In even yet another example of the present invention, a process for making a polymeric structure comprising an association agent, wherein the process comprises the steps of:

15 a. providing a hydroxyl polymer-containing composition comprising a hydroxyl polymer and an association agent; and

b. polymer processing the hydroxyl polymer-containing composition into a polymeric structure comprising the hydroxyl polymer and the association agent, is provided.

20 Accordingly, the present invention provides a polymeric structure comprising an association agent, a web comprising such a polymeric structure and a process for making such a polymeric structure and/or web.

Brief Description of the Drawings

25 Fig. 1A is a schematic side view of a barrel of a twin screw extruder suitable for use in the present invention.

Fig. 1B is a schematic side view of a screw and mixing element configuration suitable for use in the barrel of Fig. 1A.

Fig. 2 is a schematic side view of a process for synthesizing a polymeric structure
30 in accordance with the present invention.

