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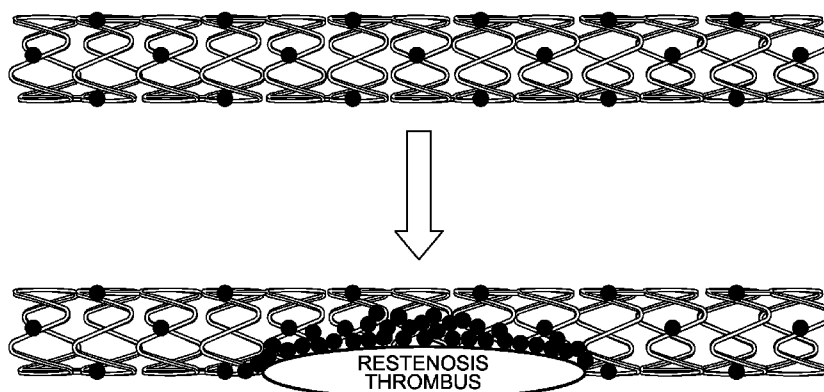


Fig. 7

(57) Abstract: Assemblies are provided comprising a stent and a sensor positioned on and/or in the stent. Within certain aspects the sensors are wireless sensors, and include for example one or more fluid pressure sensors, contact sensors, position sensors, accelerometers, pulse pressure sensors, blood volume sensors, blood flow sensors, blood chemistry sensors, blood metabolic sensors, mechanical stress sensors and/or temperature sensors. Within certain aspects these stents may be utilized to assist in stent placement, monitor stent function, identify complications of stent treatment, monitor physiologic parameters and/or medically image a body passage-way, e.g., a vascular lumen.