Line wrap ☐

```
<!-- Demonstration page set-up code -->
<html>
<body style='margin-left:100px;'>
    <h1>Javascript Code from Patent US11443329 B2 is reproduced and running in this Demo Page</h1>
    <a href='page.html'>Demo Page without Javascript Code from Patent US11443329 B2</a>
    <div style='height:240px;'></div>
    <div id = 'ad1' style = 'width:728px; height:90px; border: 1px dashed blue; font-size:40px;padding-top:4px;padding-left:64px;'>ad1 emp
    <div style='height:900px;font-size:large;'><p>Scroll Down</p></div>
    <div id = 'ad2' style = 'width:728px; height:90px; border: 1px dashed blue; font-size:40px;padding-top:4px;padding-left:64px;'>ad2 emp
</body>
</html>
<script>
var _adi = [];
for(var j=0;j<2;j++){
_adi[j] = {
  id:'ad'+(j+1),
  popul:0,
  rend:0,
  done:0,
  paused:0,
  width:728,
  height:90,
  vid:0,
  viz:0,
  t:0,
  sec:0,
  //Invocation of the “viz_check” subroutine disclosed in the patent
  findPos() {
    _viz_check.findPos(this.id);
    this.x = curleft;
    this.y = curtop;
    _popul = this.popul;
  },
  populate() {
    var dv = document.getElementById(this.id);
    dv.style['backgroundColor'] = 'skyblue';
    dv.innerHTML = this.id+" populated";
    this.popul = 1;
    this.rend = 1;
    this.done = 1;
  }
};
}
function _av(i,time){
  var adi = _adi[i];
  var dv = document.getElementById(adi.id);
  dv.style['backgroundColor'] = 'skyblue';
  dv.innerHTML = adi.id+" View Time: "+ adi.t.toFixed(1)+" sec";

}
function _sv(i){
  var adi = _adi[i];
  var dv = document.getElementById(adi.id);
  dv.style['backgroundColor'] = 'gray';
  dv.innerHTML = adi.id+" paused";
}
function _pv(i){
  var adi = _adi[i];
  var dv = document.getElementById(adi.id);
  dv.innerHTML = adi.id+" counting";
}
_marksfinder = {
  get_words: function(){
    return "marks";
  }
}
_ea_list = "list";

var _i=_adi.length;

window.setInterval( ()=>{_viz_check.update()}, 100);

// US11443329B2 ------------------------------------------------------------------------
// from https://patents.google.com/patent/US11443329B2/en?oq=11%2c741%2c482
var _viz_check = {
xs1:0,
ys1:0,
xs2:1000,
ys2:800,
curtop:0,
curleft:0,
navigate:function( )
{
 if( this.location[0]=="top" ) this.location[0]="bottom";
 else this.location[0]="top";
},
update:function( )
{
 this.xs1 = this.getScrollLeft( );
 this.ys1 = this.getScrollTop( );
 this.xs2 = Number(this.xs1)+Number(this.getClientWidth( ));
 this.ys2 = Number(this.ys1) +Number(this.getClientHeight( ));
 var i=0;
 while ( i < _i )
  {
   var adi = _adi[i];
```

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   if( adi != null)
    {
     adi.findPos( );
     var x1 = adi.x;
     var y1 = adi.y;
     var x2 = Number(x1)+Number(adi.width);
     var y2 = Number(y1)+Number(adi.height);
     var vm = 20 ;
     //  if (Number(adi.height) > 500) vm = 220 ;
     if ( adi.done==0 ) {
      if ((x2>=this.xs1)&&(y2>=this.ys1)&&(x1<=this.xs2)&&(y1<=this.ys2) ) {
       if ( (_popul==0) || (typeof[u_popul] == 'undefined') ) {
        _popul++;
        adi.markwords = _marksfinder.get_words( );
        adi.ea = _ea_list;
        adi.populate( );
       }
      }
     } else {
     if (adi.rend==1) {
      if((x1>=(this.xs1-20))&&(y1>=(this.ys1-vm))&&(x2<=(this.xs2+20))&&(y2<=(this.ys2+vm))){
       if (adi.vid==0) {
        if (adi.viz==0) {
         if (adi.t >=1) {
          adi.sec = 1;
           _av(i,1) ;
         }
        }
        else {
         if ((adi.sec +1.1) <= adi.t) {
          adi:sec ++ ;
          if (adi.sec < 61) _av(i, adi.sec) ;
         }
         if (adi.paused==1) {
          adi.paused=0 ;
          _pv(i) ;
         }
        }
        adi.t +=0.1 ;
       }
      }
      else {
       if (adi.paused==0) {
        adi.paused=1 ;
        _sv(i) ;
       }
      }
     }
    }
   }
   i++;
  }
 },
 findPos:function(p)
 {
  curleft = curtop = 0;
  var obj = document.getElementById(p) ;
  if (obj.offsetParent) {
   curleft = obj.offsetLeft
   curtop = obj.offsetTop
   while (obj = obj.offsetParent) {
    curleft += obj.offsetLeft
    curtop += obj.offsetTop
   }
  }
 },
 //---
 getClientWidth:function( ) {
  var w1=0;
  if( window.innerWidth ) w1=window.innerWidth;
  var w2=0;
  if(document.documentElement)
  w2 = document.documentElement.clientWidth;
  if(w1<w2) w1=w2;
  return w1;
 },
 getClientHeight:function( ) {
  var h1 = 0;
  if( window.innerHeight ) h1 = window.innerHeight;
  var h2=0;
  if( document.documentElement )
  h2=document.documentElement.clientHeight;
  if(h1>h2) h1=h2;
  return h1;
 },
 getScrollLeft:function( ) {
  var sL1=0;
  if( window.pageXOffset ) sL1 = window.pageXOffset;
  var sL2=0;
  if(document.documentElement)
  sL2=document.documentElement.scrollLeft;
  if(sL1<sL2) sL1=sL2;
  return sL1;
 },
 getScrollTop:function( ) {
  var sT1=0;
  if(window.pageYOffset) sT1=window.pageYOffset;
  var sT2=0;
```

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    if(document.documentElement)
    sT2=document.documentElement.scrollTop;
    if(sT1<sT2) sT1=sT2;
    return sT1;
  },
}
</script>
```