Dr. HIRSCH. This is a possible system which will be tested and evaluated. The rigid pole there is to represent a fixed obstacle and around such a system you could put in this case a polyurethane foam material, either materials of foam, plastic, foam glass which has a crush strength which you can control, and apply force through a distance which in effect is absorbing the kinetic energy of the vehicle.

Dr. HIRSCH. Another such system employs foam glass or polyurethane or foam plastic or other frangible materials which would be right adjacent to the post, or series of wooden posts, except much larger in number than what we had around the sign. Theoretically it calculates you need about 20 to 24 posts to stop a vehicle going 60 miles an hour, a 4,000-pound vehicle.

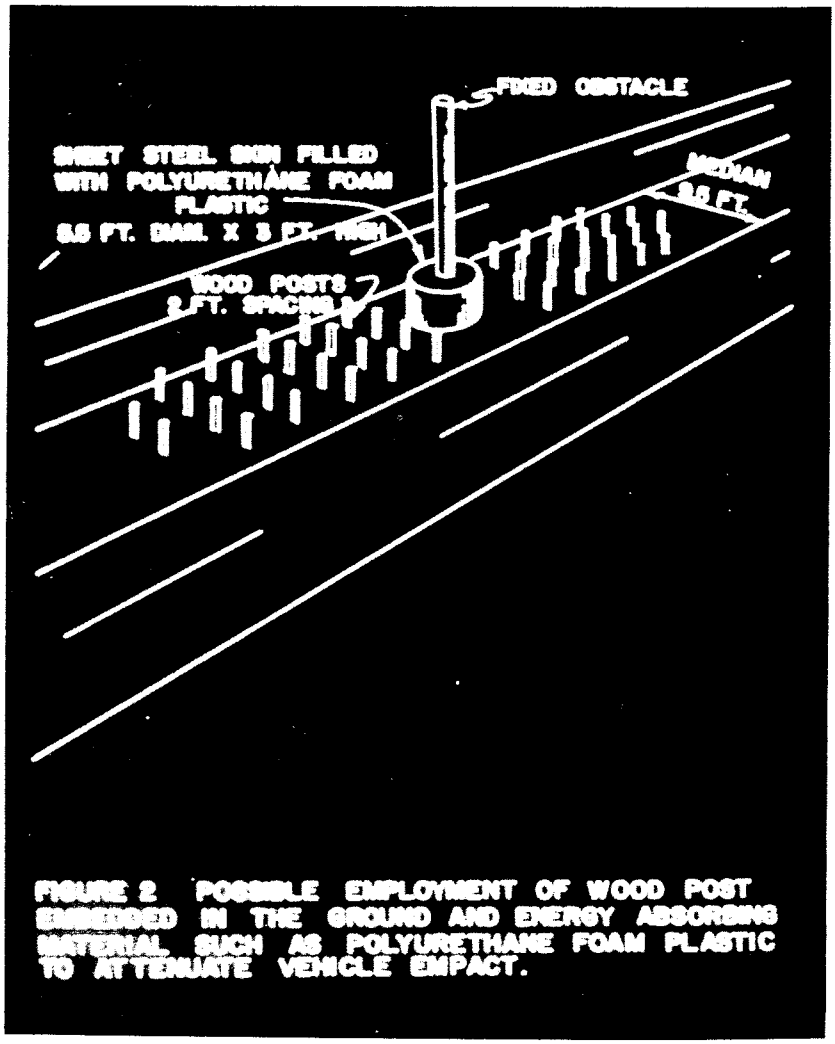

FIGURE 2. POSSIBLE EMPLOYMENT OF WOOD POST EMBEDDED IN THE GROUND AND ENERGY ABSORBING MATERIAL SUCH AS POLYURETHANE FOAM PLASTIC TO ATTENUATE VEHICLE IMPACT.