My invention relates to improvements in massage apparatus, and more particularly in massage apparatus comprising one or more rollers rotatably mounted on a suitable rod provided with one or more handles, the surface or surfaces of the rollers being provided with projections and depressions by means of which a combined kneading and sucking action is exerted on the skin of the patient. The object of the improvements is to provide a massage apparatus of this type in which the said kneading and sucking action is particularly effective, and with this object in view my invention consists in enlarging the depressions at their inner ends so as to provide cavities which are enlarged in sectional area as compared to the outer portions of the depressions.

For further improving the action of the apparatus I provide the roller or rollers with small elastic pointed projections, the said projections being located either outside the depressions and on the surface of the roller, or within the said depressions, in which case they are in the form of elongated pointed pins projecting from the bottoms of the cavities. Further, the action of the apparatus is improved by providing the depressions with marginal ribs or lips. I have found that hereby the sucking action of the depressions is materially improved, and that the action of the pointed pins on the skin which is put under tension by means of the marginal ribs is particularly effective in opening the pores of the skin. Thus the fresh air has a ready access to the tissue of the skin.

For the purpose of explaining the invention an example embodying the same has been shown in the accompanying drawing, in which the same letters of reference have been used in all the views to indicate corresponding parts. In said drawing,

Fig. 1, is an elevation showing one of the rollers,

Fig. 2, is a sectional view taken on the line 2—2 of Fig. 1, and

Fig. 3, is an elevation showing several rollers mounted on a common handle.

As is known to those skilled in the art massage apparatus of the class referred to are made from elastic material such as rubber. As shown in Fig. 3 the apparatus comprises a plurality of rollers d mounted on a common handle e. As appears from Figs. 1 and 2 the roller d is provided with an axial bushing b by means of which it is rotatably mounted on the handle. Circumferentially the roller is formed with a plurality of depressions o. Fig. 1 showing three circumferential sets of depressions, the depressions of the sets being suitably displaced with relation to each other. Within the body of the roller d the depressions are enlarged as compared to the outer portions o thereof so as to form enlarged cavities a. The outer portions o of the depressions are provided with marginal ribs or lips w extending all around the said outer portions. From the bottom of each cavity a there rise one or more radial pins s having pointed ends, the said ends being located substantially on the outer circumference including the outer ends of the marginal ribs w. The portions of the outer surface of the roller located between the depressions o and the ends of the roller is filled out with pointed projections c the outer ends of which are likewise located on the circumference including the outer faces of the ribs w.

When using the massage apparatus the air confined within the cavities a is partly expelled by the elasticity of the material of the roller being pressed on the skin, whereupon the marginal ribs w temporarily close the cavity a, so that when further moving the roller a sucking action is exerted on the skin. The points c and more particularly the points s, which act on portions of the skin put under tension by the marginal ribs w, open the pores of the skin so that the air has access to the tissue thereof.

I claim:

1. A massage apparatus comprising a body of elastic material formed with suction cups, said suction cups being enlarged within the body as compared to the outer portions thereof, and pointed elastic members projecting from the bottom parts of said suction cups to the outer portions thereof adapted to stimulate the engaged surface.

2. A massage apparatus comprising a body of elastic material formed with suction cups, said suction cups being enlarged within the body as compared to the outer portions thereof, pointed elastic members projecting from the bottom parts of said suction cups to the outer portions thereof adapted to stimulate the engaged surface, and small pointed members formed on said body laterally of said depressions.

3. A massage apparatus comprising a sub-
stantially cylindrical roller having apertures in its surface and cup shaped recesses leading from said apertures, said recesses being of greater dimensions than the surface apertures thereof.

4. A massage apparatus comprising a substantially cylindrical member mounted for rolling movement about its axis over the surface to be massaged, apertures formed in the surface of said member, recesses leading from said apertures of greater dimensions than said apertures, and projections on the surface of said member and surrounding the apertures.

LEO MAX BAGINSKI.