We claim the ornamental design for the rear portion of a snowmobile, as shown and described.

**DESCRIPTION**

FIG. 1 is a side view of the rear portion of a snowmobile of our design shown in its ordinary environment, mounted on a snowmobile;

FIG. 2 is a perspective view of the rear portion of a snowmobile of our design taken from the top and the side shown in FIG. 1;

FIG. 3 is a side view thereof, taken from the same side shown in FIG. 1, the opposite side being a mirror image;

FIG. 4 is a front view thereof;

FIG. 5 is a rear view thereof; and,

FIG. 6 is a top view thereof.

Where included, broken lines showing environment or structure are for illustrative purposes only and form no part of the claimed design. The omission of a bottom view is intended to convey that the element(s) depicted is/are plain and unornamented in that omitted view. The rear portion of a snowmobile in FIG. 1 is shown in a reduced scale.