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In this communication we shall study ramified coverings  $\pi : X \rightarrow Y$  where  $X$  is a hyperelliptic planar Klein surface. In terms of real algebraic curves, this type of surfaces correspond to hyperelliptic M-curves, that is, hyperelliptic curves with a maximum number of ovals. Explicit descriptions of the coverings in terms of algebraic equations are given. Similar results of the case of hyperelliptic Riemann surfaces were obtained by Horiuchi in 1979. (Received February 17, 2005)