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Prüfer Overrings of Affine Domains and Realization of Lattice-Ordered Groups.

The group of invertible fractional ideals of a Prüfer domain is a lattice-ordered group (ℓ -group). The goal of this presentation is to describe the ℓ -groups that occur as a group of invertible fractional ideals of a finite character Prüfer overring of the domain $D = k[x_1, x_2, \dots, x_n]$, where k is a field and x_1, x_2, \dots, x_n are indeterminates for k . (Received January 23, 2014)