ABSTRACT. Let Γ be a subgroup of the group of affine transformations of the affine space \mathbb{R}^{2n+1} . Suppose Γ acts properly discontinuously on \mathbb{R}^{2n+1} . The paper deals with the question which subgroups of $\operatorname{GL}(2n+1,\mathbb{R})$ occur as Zariski closure $\ell(\Gamma)$ of the linear part of such a group Γ . The two main results of the paper say that SO(n+1, n) does occur as $\ell(\Gamma)$ of such a group Γ if n is odd, but does not if n is even.