where $\mathrm{N} \geq 1$.
3. By Theorem 11 of [1]
(14)

$$
\left\{\begin{array}{l}
N \in(a) \rightleftarrows 0<\left\{\frac{N}{\alpha^{2}}\right\}<\frac{1}{2}, \\
N \in(b) \rightleftarrows \frac{1}{\alpha}<\left\{\frac{N}{\alpha^{2}}\right\}<1
\end{array}\right.
$$

where $\{\mathrm{x}\}$ denotes the fractional part of x . The possibility $\left\{\mathrm{N} / \alpha^{2}\right\}=1 / \alpha$ never occurs.
We should like to point out that (14) can be replaced by the following slightly simpler criterion.
(15)

$$
\left\{\begin{array}{l}
\mathrm{N} \in(\mathrm{a}) \rightleftarrows\{\alpha \mathrm{N}\}>\frac{1}{\alpha^{2}} \\
\mathrm{~N} \in(\mathrm{~b}) \rightleftarrows\{\alpha \mathrm{N}\}<\frac{1}{\alpha^{2}}
\end{array}\right.
$$

As above, $\{\alpha N\}=1 / \alpha^{2}$ is impossible.
To see that (14) and (15) are equivalent, it suffices to observe that

$$
\left\{\frac{\mathrm{N}}{\alpha^{2}}\right\}=\{(2-\alpha) \mathrm{N}\}=1-\{\alpha \mathrm{N}\}
$$

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