

```
SELECT
  a.appln_auth AS country,
  a.earliest_filing_year AS year,
  COUNT(distinct (a.appln_id)) AS total_applications
FROM
  tls201_appln a
JOIN
  tls224_appln_cpc b ON b.appln_id = a.appln_id
JOIN tls209_appln_ipc c ON c.appln_id=a.appln_id
WHERE
  ( b.cpc_class_symbol LIKE 'G10L 13%'
  OR c.ipc_class_symbol LIKE 'G10L 13%' )
  AND a.earliest_filing_year BETWEEN '1990' AND '2020'
  AND a.appln_auth IN ('CN', 'JP', 'KR', 'US', 'EP')
GROUP BY
  a.appln_auth, a.earliest_filing_year
ORDER BY
  a.appln_auth, a.earliest_filing_year
```